SBRR MAHAJANA FIRST GRADE COLLEGE (Autonomous)

Jayalakshmipuram, Mysore – 570 012
Affiliated to University of Mysore Re-accredited by NAAC with 'A' Grade
College with Potential for Excellence

BOARD OF STUDIES (BoS)

DEPARTMENT OF BIOCHEMISTRY

UG ✓

PG ☐

NEP Syllabi for I and II Semester B.Sc. Biochemistry

2021-22

DEPARTMENT OF BIOCHEMISTRY

Motto

Science for Future

Vision

Improving knowledge of Science through innovation and research for Better Future

Mission

To provide a broad based fundamental knowledge of Biochemistry by creative research ideas and professional skills

Program Outcomes (POs) for Bachelor of Science

PO 1: Domain Knowledge - Acquire and apply knowledge of science in relevant areas.

PO 2: Problem Analysis - Recognize real-world problems and user's requirements to propose solutions for the same using basic principles of science.

PO 3: Design and Development of Solutions -Developing solutions and inferences for complex problems using critical and analytical thinking.

PO 4: Investigation & Research - Ability to formulate hypothesis, augment research questions and identify & refer relevant sources for examining or inspecting technical issues as per their level of understanding and knowledge.

PO5: Use of Modern Techniques/Tools – Use digital resources, various software/platforms and appropriate techniques to interpret concepts of science.

PO6: Impact of Science on Society – To prepare competent human resource and to develop scientific attitude at local and global levels for social benefit.

PO7: Environment and Sustainability – Apply the knowledge gained for conserving environment and to handle environmental issues with sustainable solutions.

PO8: Moral and Ethical Values – Imbibe moral values and professional ethics to maintain the integrality in a professional scenario while being aware of the cultural diversities.

PO9: Individual and Team Work with Time Management – Work productively in a team or as an individual while exhibiting time management skills.

PO 10: Communication – Develop the caliber to convey various concepts of science effectively.

PO 11: Project Management and Finance – Set up enterprises/companies and build entrepreneurship, project management and finance planning skills.

PO 12: Life-long Learning – Engage in the art of self-directed learning.

List of BoS Members

Sl No	Category	Name and Designation	Address for Communication	e-Mail & Mobile No.
1.	Chairperson	Ms. Ramie V Assistant Professor & Hod	Department of Biochemistry, SBRR Mahajana First Grade College, Autonomous Jaylakshmipuram, Mysore	ramyav.fgc@mahajana.edu.in 7760108585
2.	Nominee by the Vice Chancellor	Dr. Kemparaju K Professor	DoS in Biochemistry, Manasagangothri University of Mysore, Mysore.	kemparajuom@gmail.com kemparaj@biochemistry.unimysore.ac.i 9945996543
3.	Two Experts from Other University	Mr. Haleshappa R Assistant Professor	Department of Biochemistry, Nrupathunga University NrupathungaRoad, Bangalore - 560001	haleshr222@gmail.com 9743896433
4.		Dr. Manjunath M S Assistant Professor & Hod	Department of Biochemistry, JSS College of Arts, Commerce and Science, Ooty Road, Mysore.	manju297382@gmail.com 9972023024
5.	One Person from Industry	Dr. Puneeth Kumar Managing Director	Azymus Lifescience Pvt. Ltd. Kellamballi industrial Area, KIADB ,Chamarajanagara	azymus.pharma@gmail.com 8971155575
6.	Alumnus	Ms. Pallavi Assistant Professor	Department of Biochemistry MMK & SDM College, MahilaMahaVidyalaya, Mysore	pallavimr1990@gmail.com 9538582629
7.	Member	Smt. Radhika P Assistant Professor	Department of Biochemistry, SBRR Mahajana First Grade College, Autonomous Jaylakshmipuram, Mysore	radhikap.fgc@mahajana.edu.in 9986585574

Course Structure (NEP 2020)

I Year B.Sc. Biochemistry

Discipline Specific Courses (DSC), Open Elective (OE)

L: Lecture; **T:** Tutorial; **P:** Practical

Course Code, Type and Title		Hours /week		Number of Credits (L:T:P)	Max marks			Exam Duration	Total Marks
					IA		Exam		
		L	T/P		C1	C2	C3		
I SEMESTER									
212169	**DSC(1)** **Chemical Foundation of Biochemistry- 1**	4	0	**4 : 0 : 2** **(6 credits)**	20	20	60	2½ Hours	100
	DSC(1)LAB: **Volumetric analysis-1**	0	4		10	15	25	3 Hours	50
21OEBIC101	**OE(1)** **Biochemistry in Health & Disease**	3	0	**3 : 0 : 0** **(3 credits)**	20	20	60	2½ Hours	100
II SEMESTER									
212269	**DSC(2)** **Chemical Foundation of Biochemistry- 2**	4	0	**4 : 0 : 2** **(6 credits)**	20	20	60	2½ Hours	100
	DSC(2) LAB **Qualitative & Quantitative analysis-2**	0	4		10	15	25	3 Hours	50
21OEBIC201	**OE(2)** **Nutrition & Dietetics**	3	0	**3 : 0 : 0** **(3credits)**	20	20	60	2½ Hours	100

DSC (1) Syllabus for B.Sc. Biochemistry (Basics and Honors)

Semester-I

Course Code : 212169		
	Theory	**Practical**
Course Title:	DSC(1)-Chemical Foundations of Biochemistry-1	Volumetric analysis
Total Course credits (L:T:P)(4:0:2)	04	02
Total contact hours	56	56
Hours of teaching /week	04	04
Formative assessment marks	40	25
Semester End Assessment marks	60	25
Exam duration	2½Hrs	3Hrs

COURSE OUTCOMES (COs):

- **CO1:** Illustrate the structure and functions of organelles, classify and quote chemical composition of living organism. Gain knowledge on metric system and identify formulae and apply to solve problems using analytical skills.
- **CO2:** Interpret the concept of atom and depict the electronic configuration of elements. Illustrate the nature and significance of various Chemical bonds and theories of chemical bonding.
- **CO3:** Acquire the knowledge of concept of acids, bases, buffer & its preparation and colligative properties of solutions.
- **CO4:** Elucidate the construction and uses of various electrochemical cells, half-cell reactions. Calculate electrode potential using various methods. Apply laws of thermodynamics in system and epitomize redox reactions and its role as biologically active form in a system.

Course Content : DSC (1) - Chemical Foundations of Biochemistry-1	56Hr
Unit 1: Scope of Biochemistry and Units of measurement	**14hr**
- **Scope of Biochemistry-**Definition, aim and scope of Biochemistry. Origin of life (five theories), types of organisms - prokaryotes, eukaryotes, unicellular and multicellular organisms (characteristics & differences). Compartmentalization of cellular functions (lower and higher organisms), subcellular organelles. General physiological events of organisms (plants and animals). Chemical composition of living organisms.	**7hr**
- **Units of measurement** - SI units - mass, volume, temperature, amount, length and time. An overview on the metric system - Atomic weight, molecular weight, equivalent weight. Basicity of acids & acidity of bases. Avogadro`s number, concentration units - molarity, normality, molality, mole concept, mole to molar conversion. Oxidation number and its significance. Density and specific gravity and their significances.	**7hr**
Unit 2 : Atomic structure and Chemical bonds	**14hr**
- **Atomic structure –**Atom, Dalton's postulates, Structure of an atom, electrons, Quantum numbers and their significance. Orbit, orbitals and their differences. Shapes of s, p, d, and f atomic orbitals. Illustrate the rules for filling up of electrons in various orbitals - Pauli`s exclusion principle, Aufbau principle, and Hund`s rule. Electronic configuration of elements (upto Z = 30), Octet rule & its limitations.	**5hr**

• **Chemical bonds -**Different types of bonds, formation and properties – Coordinate bond, covalent bonds - Sigma & pi bonds, Electrostatic interactions - ionic bonds. Non-covalent bonds - Vander Waals interactions - ion-dipole, dipole-dipole interactions, London forces, hydrogen bonds, hydrophobic interactions and their significance. Concept of back bonding. Outline of theories of bonding (VBT & MOT).	**9hr**

Unit 3: Buffers and Colligative properties	**14hr**
• **Buffers** - Acids, bases, Arrhenius, Lewis and Bronsted- Lowry concept of acid-base (with examples). Structure of water, phase diagram of pure water, ionic product of water, special properties of water. Buffers- composition, types with examples, buffer capacity. Buffers in animal system. pH scale, pKa value, isoelectric pH and its significance. Henderson-Hasselbalch equation. Titration curve of H_3PO_4 and CH_3COOH (comparative study). Ionization of HCl, HNO_3 and H_2SO_4.	**6hr**
• **Colligative properties**-Colligative properties of solutions. Types of solute- ionizable & non-ionizable solutes. Types of solution (hyper, hypo & isotonic). Osmosis, osmotic pressure and its determination by Berkely and Hartley's method.Vant Hoff law, Roult`s law, Reverse osmosis, Vapor pressure and its application in distillation. Elevation in boiling point, depression in freezing point, de-icing. Anomalous colligative properties of solutions.	**8hr**

Unit 4: Electrochemistry and Redox reactions	**14hr**
• **Electrochemistry** - Scope of electrochemistry, Electrochemical cells- Daniel cell/galvanic cell. Electrode potential and its measurement. Electrolysis and its applications. Types of electrolytes with examples, primary and secondary batteries (lead & Ni-Cd batteries). Electrodes, half-cell reaction, standard electrodes-SHE, Glass & Calomel.	**7hr**
• **Thermodynamics** -Laws of thermodynamics, entropy, enthalpy and their relation. Gibb's energy and free energy change. Standard free energy change in biological system.	
• **Redox reactions -**Redox reactions, redox potential and its application, energy linked to redox reactions. Reduction of oxygen (respiration), oxidation and reduction of iron in hemoglobin. Biological active forms of zinc, calcium, nickel, molybdenum, selenium, and cobalt (with examples). Redox reactions of - $NAD^+/NADH$, $NADP^+/NADPH$, $FAD/FADH_2$, $FMN/FMNH_2$. Molecularity and order of a reaction.	**7hr**

References:

1. Advanced Inorganic Chemistry: A comprehensive Text, 1999, Cotton A and Geoffrey Wilkinson, 6th edition, Wiley publication.
2. Inorganic Chemistry, 2014, Miessler GL, Paul Fischer PJ, and Tarr DA, 5th edition, Pearson Publication.
3. Inorganic Chemistry, 2004, Catherine E and Sharpe AG, ACS publication
4. Inorganic Chemistry, 2015, Overton, Rourke, Weller, Armstrong and Hagerman,Oxford Press.
5. Physical Chemistry: A molecular approach, 2019, Donald A, McQuarrie and Simon JD, Viva Books Publication.
6. Physical chemistry 2019, Atkins P, Paula JD, Keeler J , 11th edition , Oxford press

- https://collegedunia.com/exams/volumetric-analysis-chemistry-articleid-746
- https://www.britannica.com/science/volumetric-analysis
- https://www.nagwa.com/en/explainers/809181620245/

DSC (1)-Practical Syllabus

Course Content – DSC(1) Volumetric analysis- Practical-1	56 hr
List of experiments to be conducted	

1. Concept of molarity, molality and normality- Calculation and preparation of molar solutions, normal solutions and percent solutions and dilute solutions. (Problems based on Normality & molarity to be given in exams).
2. Calibration of volumetric glassware's (Burette, pipette).
3. Preparation of standard Sodium carbonate solution, standardization of HCl (Methyl orange) and estimation of NaOH in the given solution. (Methyl orange or phenolphthalein).
4. Preparation of standard Oxalic acid. Standardization of NaOH and estimation of H_2SO_4 in the given solution (phenolphthalein)
5. Preparation of standard Oxalic acid solution. Standardization of NaOH solution and estimation of acidity in vinegar.
6. Preparation of standard potassium bipthalate. Standardization of NaOH and estimation of HCl in the given solution. (Phenolphthalein).
7. Preparation of standard potassium bi-phthalate solution, standardization of sodium hydroxide solution and estimation of alkalinity of antacids
8. Preparation of standard Oxalic acid. Standardization of $KMnO_4$ and estimation of H_2O_2 in the given solution.
9. Preparation of standard Oxalic acid solution. Standardization of $KMnO_4$ solution and estimation of calcium in milk.
10. Preparation of $ZnSO_4$. Standardization of EDTA and estimation of total hardness of water using Eriochrome-Black-T indicator.
11. Estimation of sulphuric acid and oxalic acid in a mixture using standard NaOH solution and standard $KMnO_4$ solution.
12. Determination of density and viscosity of the given liquid using specific gravity bottle and Ostwald's viscometer.
13. Determination of density and surface tension of the given liquid using specific gravity bottle and stalagnometer.

References

1. Svehla, G. Vogel's Qualitative Inorganic Analysis, Pearson Education, 2012.
2. Mendham, J. Vogel's Quantitative Chemical Analysis, Pearson, 2009.
3. Dr. O. P. Pandey, D. N. Bajpai, dr. S. Giri, Practical Chemistry S. Chand and Co. Ltd.,
4. Principles of Practical Chemistry- M. Viswanathan
5. Instrumental Methods of chemical Analysis B.K Sharma.
6. Experiments in Physical Chemistry R.C. Das and B. Behra, Tata Mc Graw Hill
7. Advanced Practical Physical Chemistry J.B.Yadav, Goel Publishing House
8. Advanced Experimental Chemistry. Vol-I   J.N.Gurtu and R Kapoor, S.Chand and Co.
9. Practical Chemistry K.K. Sharma, D. S. Sharma (Vikas Publication).
10. General Chemistry experiment – Anil J Elias (University press).
11. Vogel textbook of quantitative chemical analysis G.H. Jeffery, J. Basset.
12. Quantitative chemical analysis S. Sahay (S. Chand & Co.).
13. Practical Chemistry, Dr O P Pandey, D N Bajpai, Dr S Giri. S. Chand Publication
14. College Practical Chemistry. V K Ahluwalia, SunithaDingra, Adarsh Gulati
15. Practical Physical Chemistry- B. Viswanathan, P S Raghavan. MV Learning Publication

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COURSE ARTICULATION MATRIX: DSC (1) -212169

PO / CO	Program Outcomes											
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO 11	PO 12
CO1	2	3	1	2	1	1	1	1	2	1	-	1
CO2	3	2	1	-	1	1	1	1	1	1	-	-
CO3	2	2	1	1	1	1	1	1	1	1	1	1
CO4	2	2	1	-	1	1	1	1	1	1	1	1
Weighted average	2.25	2.25	1	1.5	1	1	1	1	1.25	1	1	1

OE (1) Biochemistry Syllabus for All Programs (Except Science)

Semester-I

Course Code : 21OEBIC101	
Course Title:	**Biochemistry in Health and Disease**
Total Course credits (L:T:P) (3:0:0)	**03**
Total contact hours	**42**
Hours of teaching /week	**03**
Formative assessment marks	**40**
Semester End Assessment marks	**60**
Exam duration	**2 ½ Hrs**

COURSE OUTCOMES (COs):

- **CO1:** Gain knowledge about health, dimensions of health and various terminologies used in health and disease conditions. Classify diseases and suggest measures for general health care.
- **CO2:** Illustrate symptoms, diagnosis, treatment and preventive measures associated with different types of diseases and disorders
- **CO3:** Identify, assess, and implement personal wellness behaviors and individual health promotion strategies and illustrate the nature of infection and their defensive mechanisms.

Course Content : OE(1)- Biochemistry in Health and Disease	42hr
Unit 1: Introduction:	**14hr**
- WHO definition of health, Health and hygiene, General health care. Factors affecting health, Indicators of health and evaluation of health. Classification of diseases - Endemic, Epidemic, Pandemic; Professional health hazards. **Disease conditions:** Acute disease, chronic disease, Incurable disease, Terminal disease, Illness, disorders, Syndrome, Pre-disease. **Treatment**: Psychotherapy, Medications, Surgery, Medical devices, and Self-care. **Dimensions of Health**: Physical, Mental, Spiritual, Emotional, Environmental, and Philosophical.	
Unit 2: Diseases and Disorders	**14 hr**
Bacterial diseases: Tuberculosis, Cholera, Typhoid, conjunctivitis. **Sexually transmitted diseases (STD):** Syphilis and AIDS - Information, treatment guidelines and Prevention. **Non-communicable diseases:** Malnutrition - Under nutrition, Over nutrition, Nutritional deficiencies - Anemia, Stroke, heart diseases, Cancer, mental illness, Iodine deficiency, Epilepsy, Asthma. (Causative agents/Causes, symptoms, diagnosis, treatment, prognosis, prevention) **Genetic disorders:** Down's syndrome &Sickle cell anemia. **Lifestyle disorders:** Obesity, Liver cirrhosis, Diabetes mellitus, Hypertension (Causes, effects, prevention and treatment)	

Unit 3: Health Promotions:	14 hr
- Preventing drug abuse, Oral health promotion by tobacco control. - Mental hygiene and mental health: Concepts of mental hygiene and mental health, Characteristics of mentally healthy person, Warning signs of poor mental health, promotive mental health strategies and services, Ego defense mechanisms and implications, Personal and social adjustments, Guidance and Counseling. - Infection control: Nature of infection, Chain of infection transmission, Defenses against infection transmission	

References

1. Modern Nutrition in Health and Disease 2006 10thEdition by Maurice E. Shils, Moshe Shike, A Catharine Ross.
2. Clinical Biochemistry and Metabolic Medicine, 2012 Eighth Edition by Martin Andrew Crook, CRC Press,
3. Nutrition & Health in Developing Countries, 2000, Editors: R. Semba and M.W. Bloem, Humana Press

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https://www.journals.elsevier.com/international-journal-of-medical-microbiology

COURSE ARTICULATION MATRIX: OE(1)- 21OEBIC101

PO CO	Program Outcomes											
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	2	2	3	1	1	1	1	1	1	2	-	2
CO2	2	2	3	1	1	1	1	1	1	2	1	2
CO3	2	2	3	1	1	1	1	1	1	2	1	2
Weighted Average	2	2	3	1	1	1	1	1	1	2	1	2

DSC (2) Syllabus for B.Sc. Biochemistry (Basics and Honors)
Semester-II

Course Code : 212269		
	Theory	**Practical**
Course Title:	DSC(2)-Chemical Foundations of Biochemistry-2	Qualitative & Quantitativeanalysis-2
Total Course credits:(L:T:P) (4:0:2)	04	02
Total contact hours	56	56
Hours of teaching/week	04	04
Formative assessment marks	40	25
Semester End Assessment marks	60	25
Exam duration	2 ½ Hrs	3Hrs

COURSE OUTCOMES (COs):

- **CO1:** Illustrate the properties, characteristics and applications of different types of catalysts and colloids in daily life and elucidate the stability and purification of colloids using different methods.
- **CO2:** Categorize organic compounds and nomenclature it using IUPAC rules. Implement the different types of stereoisomer and their configuration using CIP rules and illuminate the role of stereochemistry in biological systems.
- **CO3:** Classify organometallic compounds, minerals and ores and acquire knowledge about preparations, applications of organometallic compounds and extraction, purification and importance of minerals and ores.Illustrate the structure, occurrence and role of metalloporphyrins in biological systems.
- **CO4:** Categorize the inorganic molecules and nomenclature it by implementing rules. Depict coordination complexes, its stereochemistry and application in various fields. Illustrate the sources, types, poisoning, signs and symptoms of heavy metals. Gain competenceinfree radicals-generation and its role in biological system.

Course Content :DSC (2) -Chemical Foundations of Biochemistry-2	56hr
Unit 1: Chemical Catalysis & Colloids	**14hr**

- **Chemical Catalysis**: Definition, characteristics, catalytic promoters and types of catalysts. Multifunctional catalysis. Theories of catalysis (intermediate compound formation & adsorption theory). Properties, characteristics of enzyme catalysis, autocatalysis and acid-base catalysis. Industrial catalysis and its applications.
- **Colloids:** Colloids, suspension and true solutions. Classification of colloids (based on physical state, particle size and interaction between dispersed phase & medium). Differences between lyophobic & lyophilic sols. Properties of colloids- kinetic property (Brownian movements), electric properties (electrophoresis & electro-osmosis). Stability of colloids - coagulation; Effect of boiling band addition of electrolytes. Peptization with examples. Mutual precipitation of colloids, Purification of colloids – dialysis, electro-dialysis, ultrafiltration and ultracentrifugation. Colloids in daily life and applications. Emulsion- types, micelles, applications of emulsions.

Unit 2: Nomenclature of Organic Compounds & Stereochemistry	14hr

- Classification, naming- IUPAC nomenclature, compounds containing one, two functional groups with chains, homologous series.
- **Stereochemistry**- Definition and types, Structural Isomerism- types with examples. Stereoisomerism - Optical isomerism (Lactic acid, tartaric acid), symmetry of elements, plane polarized light and optical purity. Molecular chirality. Geometrical isomerism (maleic & fumaric acid). Nomenclature properties of enantiomers and diastereomers, epimers & anomers with examples. Racemic mixture & resolution (chemical & biological methods). Fischer and Newman projection formulae (molecule with one and two chiral and achiral centers). Priority rules (CIP rules) - E and Z, R and S, D and L notations, absolute and relative configuration. Role of stereochemistry in biological systems.

Unit 3: Organometallic Compounds & Metalloporphyrins	14hr

- **Organometallic Compounds:** Definition, Classification with examples. Preparation of Grignard reagents, reactions, applications & limitations. Organolithium compounds, Organozinc compounds - preparation and synthetic applications. Metallocenes: ferrocenes- structure, properties & its importance.
- Introduction to mineral and ores, classification. Extraction of crude metal from their ores (General steps), Extraction of Nickel from sulphide ore followed by Mond's process of purification, Gold from native ore by cyanide process and refining by quartation process. Uses of metals, Importance of minerals.
- **Metalloporphyrin:** Definition, basic porphyrin nucleus structure, types (brief). Role of metal ions in biological systems- Fe, Co, Zn, Mg (occurrence, structure and functions) and iron-sulphur clusters with suitable example (Nitrogenase) and their role in biological systems.

Unit 4: Inorganic Chemistry & Heavy metal poisons	14hr

- Nomenclature of inorganic molecules- IUPAC nomenclature (ionic, molecular and inorganic acids). Coordination compounds – formula, IUPAC nomenclature, central metal ion, ligand & its types, coordination number & its significance, coordination sphere, complex ion. Oxidation number of central atom, stock notations. Homoleptic and heteroleptic complexes. Isomerism in complexes – structural (ionization, hydrate, linkage and coordination isomerism). Stereoisomerism- geometrical (coordination number 4), optical isomerism with simple inorganic complexes. Applications of qualitative, quantitative analysis, photographic, metallurgy, medicine, catalysis and bio-systems.
- **Heavy Metal Poisons:** Introduction, sources, poisoning/entry, signs and symptoms- lead, mercury, aluminium, arsenic, cyanide, phosphorus, CO, SO_2, NO_2, halides (F & Br) and corrosives.
- **Free radicals**: Introduction, sources (exogenous & endogenous), types of free radicals, generation (enzymatic & non-enzymatic) and scavenger systems. Redox reactions. Endergonic and exergonic reactions with examples. The Importance of free radicals in biological systems.

References

1. Physical Chemistry 2006, Peter Atkins. 8th edition, W.H. Freeman and Company
2. Inorganic Chemistry: Principles of structure and Reactivity, 2006, Huheey JE, Keiter, EA, Keiter RL, Pearson Education India
3. Stereochemistry: Conformation and Mechanism, 2009, Kalsi PS, New Age International Publications
4. Introduction to Stereochemistry 2012, Kurt Mislow, Dover Publications
5. A text book of Organic Chemistry 2016, Raj K Bansal, 6th edition, New Age International Publications
6. Advanced Inorganic Chemistry 1999, Cotton et al , 6th edition, A Wiley -International
7. Principles of physical Chemistry by Puri, Sharma and Pathania.
8. Physical Chemistry by R. L. Madan, G. D. Tuli. S. Chand and Co.
9. A Text Book of Physical Chemistry by K.L.Kapoor. Vol.2.Mc. Millan Publisher, India Ltd.
10. Advanced Organic Chemistry by Bahl and Bahl.

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file:///C:/Users/admin/Downloads/biosensors-08-00095-1.pdf
https://iupac.org/wp-content/uploads/2016/07/Inorganic-Brief-Guide-V1-1.pdf
https://www.healthline.com/health/heavy-metal-poisoning

DSC-2- Practical Syllabus

Course Content–DSC(2):Qualitative and quantitative analysis – 2	56hr
List of experiments to be conducted	

1. Systematic Semi micro–Qualitative Analysis of Inorganic Salt Mixtures
Systematic semi micro qualitative analysis of two acid and two basic radicals in the given inorganic salt mixture. The constituent ions in the mixture to be restricted to the following. (Any **five** binary mixtures shall be given)

Anions: HCO_3^-, CO_3^{2-}, Cl^-, Br^-, NO_3^-, BO_3^{3-}, SO_4^{2-} and PO_3^{2-}.

Cations: Pb^{4+}, Al^{3+}, Fe^{2+}, Fe^{3+}, Mn^{2+}, Zn^{2+}, Ca^{2+}, Sr^{2+}, Ba^{2+}, Mg^{2+}, K^+, Na^+ & NH_4^+.

2. Determination of molecular weight of non-volatile solute by Walker-Lumsden method.
3. Determination of rate constant of decomposition of H_2O_2 using $KMnO_4$ by volumetric analysis method using ferric chloride as catalyst.
4. Determination of distribution coefficient of benzoic acid between water and benzene or iodine between water and carbon tetrachloride.
5. Determination of distribution coefficient of benzoic acid between water and toluene.
6. Determination of role of emulsifying agents in stabilising the emulsions of different oils.(Demonstration)
7. Verification of Beer's Law. Estimation of unknown concentration of glucose by using colorimeter
8. Calibration of pH meter and determination of pH of aerated soft drinks.

References :

1. Svehla, G. Vogel's Qualitative Inorganic Analysis, Pearson Education, 2012.
2. Mendham, J. Vogel's Quantitative Chemical Analysis, Pearson, 2009.
3. Dr. O. P. Pandey, D. N. Bajpai, dr. S. Giri, Practical Chemistry S. Chand and Co. Ltd.,
4. Principles of Practical Chemistry- M. Viswanathan
5. Instrumental Methods of chemical Analysis B.K Sharma.
6. Experiments in Physical Chemistry R.C. Das and B. Behra, Tata Mc Graw Hill
7. Advanced Practical Physical Chemistry J.B.Yadav, Goel Publishing House
8. Advanced Experimental Chemistry. Vol-I J.N.Gurtu and R Kapoor, S.Chand and Co.
9. Practical Chemistry K.K. Sharma, D. S. Sharma (Vikas Publication).
10. General Chemistry experiment – Anil J Elias (University press).
11. Vogel textbook of quantitative chemical analysis G.H. Jeffery, J. Basset.
12. Quantitative chemical analysis S. Sahay (S. Chand & Co.).
13. Practical Chemistry Dr O P Pandey, D N Bajpai, Dr S Giri. S. Chand Publication
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15. Practical Physical Chemistry- B. Viswanathan, P S Raghavan. MV Learning Publication.

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- https://chem.libretexts.org/Ancillary_Materials/Laboratory_Experiments/Wet_Lab_Experiments/Organic_Chemistry_Labs/Intermediate_Chemical_Experimentation/02%3A_Qualitative_Organic_Analysis/2.01%3A_New_Page

COURSE ARTICULATION MATRIX: DSC (2)-212269

PO CO	Program Outcomes											
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	3	2	2	1	1	1	1	1	1	1	-	1
CO2	3	2	2	1	1	-	1	1	1	-	-	-
CO3	2	1	1	1	1	1	1	1	1	-	1	1
CO4	2	1	1	1	1	2	1	1	1	1	-	1
Weighted average	2.5	1.5	1.5	1	1	1.33	1	1	1	1	1	1

OE (2) Biochemistry Syllabus for All Programs (Except Science)

Semester-II

Course Code : 21OEBIC201	
Course Title:	**Nutrition and Dietetics**
Total Course credits (L:T:P) (3:0:0)	03
Total contact hours	42
Hours of teaching/week	03
Formative assessment marks	40
Semester End Assessment marks	60
Exam duration	2 ½ Hrs

COURSE OUTCOMES (COs):

- **CO1:** Acquire the knowledge on the basic principles of balance diet in providing energy requirements, Recommended Dietary Allowances and factors influencing BMR.
- **CO2:** Gain competence in connecting the role of various nutrients in maintaining health and ability to describe the functions and role of macronutrients and micronutrients, their requirements and the effect of deficiency and excess.
- **CO3:** Apply basic nutrition knowledge in diet planning and diet considerations in disease conditions and the impact of various functional foods on our health.

Course Content : OE (2)- Nutrition and Dietetics	42 hr
Unit 1: Basic Concepts of Nutrition:	**14 hr**
• Introduction, Basic principles of a balanced diet to provide energy and nutrients. Composition of foods and proximate analysis of foods. Calorific value of foods and Basal metabolism. Basal Metabolic Rate (BMR), Factors affecting BMR, Energy requirements for different physical activities, Specific dynamic action of food, Nutritive value of proteins. Energy requirements and recommended dietary allowance (RDA) for infants, children and pregnant women. Protein calorie malnutrition.	
Unit 2: Macronutrients and Micronutrients:	**14 hr**
• Carbohydrates- Digestible and non-digestible, Dietary fibers, Essential fatty acids, lipoproteins and cholesterol. • Essential amino acids, Fortification of foods, Protein requirement for different categories. • Vitamins-Sources, requirements, functions and deficiency symptoms of Vitamin-C, Thiamine, Riboflavin, Pyridoxine, Folic acid, Vitamin B12. Absorption of fat-soluble vitamins- A, D, E and K. • Micronutrients: Source, Daily requirement, functions and deficiency disease symptoms of Macro-minerals (Ca, P, and Cl) and micro minerals/trace elements (I, Fe, Zn and Se).	

Unit 3: Dietetics and Diet Therapy:	14 hr

- Introduction, Food pyramid, Diet planning and introduction to diet therapy. Nutritional requirements for different age groups, anemic child, expectant women, and lactating women. Diet planning for prevention and cure of nutritional deficiency disorders.

- Diet therapy: Functional foods, Anthropometric measurements, dietary considerations during fever, malaria, and tuberculosis. Prevention and correction of obesity, underweight, and metabolic diseases by diet therapy. Dietary interventions to correct and or manage the gastrointestinal diseases (indigestion, peptic ulcer, constipation, diarrhea, steatorrhea, irritable bowel syndrome.

- Functional foods-based diet therapy for diabetes, cardiovascular disease and cancer.

References:

1. Clinical Dietetics and Nutrition, 2002, Antia FP and Abraham P. Oxford University Press; 4th Edition. ISBN-10: 9780195664157.
2. Oxford Handbook of Nutrition and Dietetics, 2011, Webster-Gandy J, Madden A and Holds worth M. Oxford University Press, Print ISBN-13: 9780199585823.
3. Krause's Food, Nutrition and Diet therapy, 2003, Mahan KL and Escott-Stump S. Elsevier, ISBN: 9780721697840.
4. Human Nutrition and Dietitics. 1986, Passmore R. and Davidson S. Churchill Livingstone Publications, ISBN-10: 0443024863.
5. Rosemary Stanton's Complete Book of Food & Nutrition, 2007, Simon & Schuster Publishers, Australia, ISBN 10: 0731812999
6. Food Science and Nutrition, 2018, Roday S. Oxford University Press Publishers, ISBN: 9780199489084/0199489084.
7. Food Science, 2007, Srilakshmi S. New Age International (P) Limited Publishers, ISBN: 9788122420227/ 8122420222.

https://www.livestrong.com
https://www.mayoclinic.org
https://www.medicalnewstoday.com
https://www.med-health.net/Lifestyle-Diseases.html

COURSE ARTICULATION MATRIX: OE (2) - 21OEBIC201

PO / CO	Program Outcomes											
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	3	2	2	1	1	1	1	1	1	2	-	2
CO2	3	2	2	1	1	1	1	1	1	2	1	2
CO3	3	2	2	1	1	1	1	1	1	2	1	2
Weighted average	3	2	2	1	1	1	1	1	1	2	1	2

Continuous Formative Evaluation/Internal Assessment (DSC & OE)

Total marks for each course shall be based on continuous assessments and semester end examinations. The pattern is **40:60** for IA and Semester End Theory Examinations respectively and **50:50** for IA and Semester End Practical Examinations respectively.

	THEORY	PRACTICAL
Total Marks	100 Marks	50 Marks
Continuous Assessment – 1(C1)	20 Marks	10 Marks
Continuous Assessment – 2 (C2)	20 Marks	15 Marks
Semester End Examination (C3)	40 Marks	25Marks

Evaluation Process of IA Marks shall be as follows:

- The first component (C1) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, project work etc. This assessment and score process should be completed after completing 50% of syllabus of the course and within 45 working days of semester program.
- The second component (C2) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, internship/industrial practicum/project work, quiz etc. This assessment and score process should be based on completion of remaining 50% of syllabus of the course of the semester.
- During the 17th – 19th week of the semester, a semester end examination shall be conducted by the college for each course. This forms the third and final component of assessment (C3) and the maximum marks for the final component will be 60%.
- In case of a student who has failed to attend the C1 or C2 on a scheduled date, it shall be deemed that the student has dropped the test. However, in case of a student who could not take the test on scheduled date due to genuine reasons, such a candidate may appeal to the Principal. The Principal in consultation with the concerned teacher shall decide about the genuineness of the case and decide to conduct special test to such candidate on the date fixed by the concerned teacher, but before commencement of the concerned semester end examinations.
- The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) of a course shall be as under:

TheoryFormativeassessment	C1 Mark	C2 Marks	Total Marks
Session Test	20	-	20
Seminar/Presentation/Assignment/Activity/Case Study/Field Work/Project Work/Quiz etc.	-	20	20
Total	20	20	40

- For practical course of full credits, seminar shall not be compulsory. In its place, marks shall be awarded for Practical Record Maintenance (the marks is 25 (10 + 15) and 25. Evaluated for a total of 50 Marks).
- Conduct of Test, Seminar, Case study/Assignment etc., can be either in C1 or in C2 component as decided by the college and concerned department/teacher.

PracticalFormative assessment	C1 Mark	C2 Marks	Total Marks
Session Test	10	-	10
Record/Assignment/Activity/Case Study/Field Work/Project Work/Quiz etc.	-	15	15
Total	10	15	25

- For assignments, tests, case study analysis etc., of C1 and C2, the students should bring their own answer scripts (A4 size), graph sheets etc., required for such tests/assignments and these be sealed/signed by the concerned department at the time of conducting tests/assignment/project work etc.
- The teachers concerned shall conduct test/seminar/case study etc., the students should be informed about the modalities well in advance. The evaluated courses assignments during component I (C1) and component II (C2) of assessment are immediately provided to the candidates after obtaining acknowledgement in the register by the concerned teacher(s) and maintained by the Department.
- Before commencement of the semester end examination, the evaluated test, assignment etc., of C1 and C2 shall be obtained back to maintain them till the announcement of the results of the examination of the concerned semester.
- The marks of the internal assessment shall be published on the notice board of the department/college for information of the students.
- The internal assessment marks shall be communicated to the CoE at least 10 days before the commencement of the semester end examinations and the CoE shall have access to the records of such periodical assessments.
- There shall be no minimum in respect of internal assessment marks.
- Internal assessment marks may be recorded separately. A candidate, who has failed or rejected the result, shall retain the internal assessment marks.

B.Sc. Biochemistry Semester I
Practical Examination- Scheme of Valuation
(DSC-1): Volumetric analysis- Practical-1

Duration: 3 hours   **Practical Proper Max. Marks: 25**

C1 and C2 are internal tests to be conducted during 8th and 16th weeks respectively of the semester. C3 is the semester-end examination conducted for 3 hours. The students will be evaluated on the basis of skill, comprehension and recording the results.

The student has to compulsorily submit the practical record during C1 and C2. For C3, the record has to be certified by the Head of the Department.

The student is evaluated for **C1 & C2** respectively as per the following scheme:

Heading	Marks
C1 - Principle writing + Problem solving	10
C2- Experiment + Record/Continuous assessment	10+05=15
Total	**25**

The student is evaluated for **25 marks** in **C3**as per the following scheme.

- **PART- A: Principle writing**   **Marks- 05**
- **PART- B:Minor Experiment**   **Marks- 03**
- **PART- C: Major Experiment**   **Marks- 17**

PART- A: Principle writing (Time-15min)   Marks- 05

Principle of any ONE of the following experiment to be given for writing:

1. Determination of density and viscosity of the given liquid using specific gravity bottle and Ostwald's viscometer.
2. Determination of density and surface tension of the given liquid using specific gravity bottle and stalagnometer.
3. Preparation of standard potassium bi-phthalate solution, standardization of sodium hydroxide solution and estimation of alkalinity of antacids
4. Preparation of standard Oxalic acid solution. Standardization of $KMnO_4$ solution and estimation of calcium in milk.
5. Preparation of standard oxalic acid solution. Standardization of NaOH solution and Estimation of acidity in vinegar.

PART- B: Minor Experiment   Marks-03

Any ONE problem for calculation based on Normality /Molarity is to be given.
     (Equivalent & Molecular weight is to be specified)

Formula + Calculation + Report --------------------------→**Marks (1+1+1=03)**

PART- B: Experiment – Volumetric analysis   **Marks- 17**

Any **ONE** of the following experiments is to be given for conducting.

 (Tabular column & Calculations to be written)

NOTE: Standard solutions to be prepared by the candidate .The link solution and solution to be estimated is to be provided in reagent bottles.

1. Preparation of standard potassium bipthalate. Standardization of NaOH and Estimation of HCl in the given solution. (Phenolphthalein).
2. Preparation of standard Sodium carbonate solution, standardization of HCl (Methyl orange) and Estimation of NaOH in the given solution. (Methyl orange or phenolphthalein).
3. Preparation of standard Oxalic acid. Standardization of NaOH and Estimation of H_2SO_4 in the given solution (phenolphthalein).
4. Preparation of standard Oxalic acid. Standardization of $KMnO_4$ and Estimation of H_2O_2 in the given solution.
5. Preparation of $ZnSO_4$. Standardization of EDTA and estimation of total hardness of water using Eriochrome-Black-T indicator
6. Estimation of sulphuric acid and oxalic acid in a mixture using standard NaOH solution and standard $KMnO_4$ solution.

Assessment of Experimental results

*   Preparation of Standard solution & Calculation of Normality   **Marks= 03**

*   Standardization & Estimation   **Marks = 14**(7+7)

Discrepancy	Standardization Marks(7m)	Estimation Marks(7m)
$\pm$ 0.2 cm^3	**05**	**05**
$\pm$ 0.3 cm^3	04	04
$\pm$ 0.4 cm^3	03	03
$\pm$ 0.5 cm^3	02	02
Any other value	01	01
Calculation of Normality & Weight/Litre of solution	**02**	**02**

B.Sc. Biochemistry Semester II
Practical Examination- Scheme of Valuation

(DSC-2): Qualitative & quantitative analysis- Practical-2

Duration: 3 hours   **Practical Proper Max. Marks: 25**

C1 and C2 are internal tests to be conducted during 8th and 16th weeks respectively of the semester. C3 is the semester-end examination conducted for 3 hours. The students will be evaluated on the basis of skill, comprehension and recording the results.

The student has to compulsorily submit the practical record during C1 and C2. For C3, the record has to be certified by the Head of the Department.

The student is evaluated for **25 marks** in **C3** as per the following scheme:

Heading	Marks
C1 - Principle writing with formula	10
C2- Experiment + Record/Continuous assessment	10+05=15
Total	**25**

The student is evaluated for **25 marks** in **C3** as per the following scheme.

- **PART- A: Principle & formula writing**   **Marks- 05**
- **PART- B: Experiment**   **Marks- 20**

PART- A: Principle writing   **Marks- 05**

Principle of any of the following experiment may be given for writing: (Time-15min)

(Candidate has to write the procedure instead of formulae for the experiments which does not include any without formulae)

1. Determination of molecular weight of non-volatile solute by Walker-Lumsden method.
2. Determination of rate constant of decomposition of H_2O_2 using $KMnO_4$ by volumetric analysis method using ferric chloride as catalyst.
3. Determination of distribution coefficient of benzoic acid between water and toluene
4. Verification of Beer's Law. Estimation of unknown concentration of a biomolecule by using colorimeter.
5. Determination of role of emulsifying agents in stabilising the emulsions of different oils.
6. Calibration of pH meter and determination of pH of aerated soft drinks.

PART- B:

Systematic semi micro qualitative analysis of an inorganic salt mixture   Marks- 20

The candidate has to perform the Systematic semi micro qualitative analysis of two acid and two

basic radicals in the given inorganic salt mixture.
The constituent ions in the mixture to be restricted to the following (Any five binary mixtures shall be given)

- **ANIONS**: Carbonates, Bicarbonates, Chloride, Bromide, Nitrate, Borate, Sulphate, and Phosphate. (CO_3^{2-}, HCO_3^-, Cl^-, Br^-, NO_3^-, BO_3^{3-}, SO_4^{2-} and PO_3^{2-})

- **CATIONS:** Lead, Aluminium, iron, Manganese, Zinc, Barium, Strontium, Calcium, Magnesium, Ammonium, Potassium and Sodium (Pb^{4+}, Al^{3+}, Fe^{2+}, Fe^{3+}, Mn^{2+}, Zn^{2+}, Ba^{2+}, Sr^{2+}, Ca^{2+}, , Mg^{2+}, NH_4^+ K^+ & Na^+)

NOTE:

➢ A minimum of 8-10 salts covering all the above acid and basic radicals should be provided to the examiners.
➢ Ammonium radical shall be analyzed either in the zeroth group or in the sixth group.
➢ Salts that yield insoluble salts like lead sulphate, Barium sulphate, Strontium sulphate and Calcium sulphate on double decomposition shall be avoided
➢ In second group acid radical either Chloride or Bromide or Nitrate shall be given. More than one radical in this group shall be avoided.
➢ The two cations in the mixture should belong to different groups. However the mixture may contain Ammonium and any one of the other cations in the sixth group.
➢ Mixtures requiring elimination of Phosphate and Borate ions shall not be given as they are interfering ions [when phosphate and borate are given, cations like Manganese, Zinc, Barium, Strontium, Calcium, Magnesium shall be avoided. The Cations that can be given are Lead, Aluminium, Potassium, Sodium]

Assessment of Experimental results

1. **Preliminary tests**   **Marks – 03**

     (Physical state, colour, Solubility in water and dilute HCl)

2. **Identification & confirmatory test**   **Marks-16**

Tests	Anion (07)	Cation (09)
Correct identification test	2x1=02	2x1=02
Correct confirmatory test	2x2=04	2x2=04
Group Separation table	–	02
Balanced ionic equation for any one of the confirmatory test	01	01

3. **Report the identified ions**   **Marks–01**

B.Sc. I/II Semester Examination

Model question paper Discipline Specific Course (DSC)

Biochemistry

Duration: 2.30 hours   **Max. Marks: 60**

Instructions: Answer any FIVE questions from Part A and any FIVE questions from Part B.

	Part –A	**2 x 5 = 10**

1.   a.
     b.
     c.
     d.
     e.
     f.
     g.

	Part –B	**5 x 10= 50**

2.   a.
     b
3.   a.
     b.
4.   a.
     b.
5.   a.
     b.
6.   a.
     b.
7.   a.
     b.
8.   a.
     b.

****

NOTE:

1. **Ten marks questions may be divided in to 6+4 or 5+5 & Sub division under each main question shall be from different units.**
2. **Question and marks on each unit should be proportional to the number of teaching hours allotted.**

I Semester B.Sc. Biochemistry Examination
Practical: Model question paper

DSC (1): Volumetric analysis- Practical-1

Duration: 3 hours   **Max. Marks: 25**

1.   Write the principle of _____ experiment.   **05 Marks**
2.   Minor experiment (Solving problem)   **03 Marks**
3.   Major experiment (Conduct the experiment and report the results)   **17 Marks**

II Semester B.Sc. Biochemistry Examination
Practical: Model question paper

(DSC-2): Qualitative & quantitative analysis- Practical-2

Duration: 3 hours   **Max. Marks: 25**

1.   Write the principle and formula of _____ experiment.   **05 marks**
2.   Major experiment (Conduct the experiment and report the results) **20 Marks**

Semester I/II Examination

Open Elective-Model question paper

Biochemistry

Duration: 2.30 hours   **Max. Marks: 60**

Instructions: Answer any FIVE questions from Part A and any FIVE questions from Part B.

	Part -A	**2 x 5 = 10**

1.   a.
      b.
      c.
      d.
      e.
      f.
      g.

	Part –B	**5 x 10= 50**

2.   a.
      b
3.   a.
      b.
4.   a.
      b.
5.   a.
      b.
6.   a.
      b.
7.   a.
      b.
8.   a.
      b.

****

NOTE:

1. **Ten marks questions may be divided in to 6+4 or 5+5 & Sub division under each main question shall be from different units.**
2. **Question and marks on each unit should be proportional to the number of teaching hours allotted.**

Board of Studies

Sl No	Name and Address	Designation	Signature
1	Ms. Ramya V HoD, Department of Biochemistry, SBRR Mahajana First Grade College, Autonomous Jaylakshmipuram, Mysuru Mobile No:7760108585 ramyav.fgc@mahajana.edu.in	Chairperson	
2	Dr. Kemparaju K Professor, DoS in Biochemistry, Manasagangothri University of Mysore, Mysuru. Mobile No:9945996543 kemparajuom@gmail.com kemparaj@biochemistry.uni-mysore.ac.in	Member	
3	Mr. Haleshappa R Assistant Professor, Department of Biochemistry, Nrupathunga University Nrupathunga Road, Bengaluru - 560001 Mobile No:9743896433 haleshr222@gmail.com	Member	
4	Dr. Manjunath M S HoD, Department of Biochemistry, JSS College of Arts, Commerce and Science, Ooty Road, Mysuru. Mobile No:9972023024 manju297382@gmail.com	Member	
5	Dr. Puneeth Kumar Managing Director, Azymus Lifescience Pvt. Ltd. Kellamballi Industrial Area, KIADB, Chamarajanagara Mobile No:8971155575 azymus.pharma@gmail.com	Member	
6	Ms. Pallavi Assistant Professor, Department of Biochemistry MMK & SDM College, Mahila Mahavidyalaya, Mysuru Mobile No:9538582629 pallavimr1990@gmail.com	Member	Absent
7	Ms. Radhika P Assistant Professor, Department of Biochemistry SBRR Mahajana First Grade College, Autonomous Jaylakshmipuram, Mysuru Mobile No:9986585574 radhikap.fgc@mahajana.edu.in	Member	

Department of Biotechnology

Motto
Science for Future

Vision

To pave way for an innovative future and welfare of society by enhancing technical skills in solving real world problems.

Mission

To understand biotechnology at molecular level.

To create skilled researchers to meet practical challenges.

To provide quality education and attain new heights in achieving goals.

Program Outcomes (POs) for Bachelor of Science

PO 1: Domain Knowledge - Acquire and apply knowledge of science in relevant areas.

PO 2: Problem Analysis – Recognize real-world problems and user's requirements to propose solutions for the same using basic principles of science.

PO 3: Design and Development of Solutions – Developing solutions and inferences for complex problems using critical and analytical thinking.

PO 4: Investigation & Research – Ability to formulate hypothesis, augment research questions and identify & refer relevant sources for examining or inspecting technical issues as per their level of understanding and knowledge.

PO 5: Use of Modern Techniques/Tools – Use digital resources, various software/platforms and appropriate techniques to interpret concepts of science.

PO 6: Impact of Science on Society – To prepare competent human resource and to develop scientific attitude at local and global levels for social benefit.

PO 7: Environment and Sustainability – Apply the knowledge gained for conserving environment and to handle environmental issues with sustainable solutions.

PO 8: Moral and Ethical Values – Imbibe moral values and professional ethics to maintain the integrality in a professional scenario while being aware of the cultural diversities.

PO 9: Individual and Team Work with Time Management – Work productively in a team or as an individual while exhibiting time management skills.

PO 10: Communication – Develop the caliber to convey various concepts of science effectively.

PO 11: Project Management and Finance – Set up enterprises/companies and build entrepreneurship, project management and finance planning skills.

PO 12: Life-long Learning – Engage in the art of self-directed learning.

List of Board of Studies Members

Sl.No	Category	Name and Designation	Address of Communication	e-Mail & Mobile number
1	Chairperson	Saraswathi.P Assistant Professor & HoD	Department of Biotechnology SBRR Mahajana First Grade College (A), Jayalakshmipuram, Mysuru - 12	Ph No. 9663218437 saraswathip.fgc@mahajana.edu.in
2	Nominee by the Vice Chancellor, UOM.	Dr. Geetha, N Associate Professor	Associate Professor, DOS in Biotechnology Manasagangothri, Mysuru	Ph No. 9986203018 geethabiotech.uom@gmail.com
3	Two Experts from Other University	Dr. Sumana K. Associate Professor	Department of Microbiology, JSS Academy of Higher education and Research, Mysore	Ph No 91740390666 mnsumana@jssuni.edu.in
		Dr. Chandrashekar S Assistant Professor	Department of studies in Biotechnology Davangere University, Davengere	Ph No 9164176224 chandru.s@davangereuniversity.ac.in
4	One Person from Industry/ Corporate Sector/Allied Area	Dr. IrfanullaSharieff Chief scientific officer	Triphase pharmaceuticals Pvt Ltd, KSSIDC Industrial estate, hebbal, Mysore-16	Ph No 9845881086 Sharieffirfan17@gmail.com
5	Member	Dr. Aishwarya S Assistant Professor	Dept of Biotechnology SBRR Mahajana First Grade College.	Ph No: 9844250946 aishwaryas.fgc@mahajana.edu.in
6	Alumnus	Ms. Brunda A Tutor	Department of Biochemistry, School of Life sciences, JSS Academy of Higher education and Research, Mysore	Ph No 7259722515 brundaa@jssuni.edu.in

Course Structure (NEP 2020)

Discipline Specific Courses (DSC) and Open Elective (OE)
I Year

Course Type Code and Title		Hours/ Week		Credits	Maximum Marks			Exam Duration	Total
					IA		Exam		
		L	T/P	L:T:P	C1	C2	C3		Marks
Biotechnology – I Semester									
212159	**DSC(1)** Cell Biology and Genetics	4	0	4:0:2 (6 Credits)	20	20	60	2 ½ hours	150
	DSC(1) lab Cell Biology and Genetics	0	4		10	15	25	3 hours	
OE(1)	Biotechnology for Human welfare **21OEBIT101**	3	0	3:0:0 (3 Credits)	20	20	60	2 ½ hours	100
Biotechnology – II Semester									
212259	**DSC(2)** Microbiological Methods	4	0	4:0:2 (6 Credits)	20	20	60	2 ½ hours	150
	DSC(2) lab Microbiological Methods	0	4		10	15	25	3 hours	
OE(2)	Applications of Biotechnology in Agriculture **21OEBIT201**	3	0	3:0:0 (3 Credits)	20	20	60	2 ½ hours	100

DSC (1) Syllabus for B.Sc. Biotechnology (Basic and Honors)

Semester I

Course Code: 212159	Course Title: Cell Biology and Genetics (Theory) Cell Biology and Genetics (Practical)
Course Credits: 06 (4:0:2)	**Hours of Teaching/Week: 8 hrs** 04 (Theory) + 04 (Practical)
Total Contact Hours: 56 Hours (Theory) 56 Hours (Practical)	**Formative Assessment Marks:** 40 (Theory) 25 (Practical)
Exam Duration: 2.5 Hours (Theory) 3 Hours (Practical)	**Semester End Examination Marks:** 60 (Theory) 25 (Practical)

Course Outcomes:

1. Appreciate the concepts of Biotechnology and demonstrate knowledge acquired in Interdisciplinary skills in cell biology, genetics, biochemistry, microbiology, and molecular biology.

2. Describe the ultra structure of cells, structure and function of organelles, cytosol and Cytoskeleton, phases of cell cycle, cell division, reductional division in gametes, molecular mechanisms that regulate life and death of a cell including programmed cell death or apoptosis and differentiation in plants.

3. Comprehend organization and structure of chromosomes, banding techniques and Mendelian laws of inheritance, deviations and exceptions to these laws, types of mutations, genetic or hereditary disorders and concepts in population genetics

Contents	Hours
Unit 1	
Cell as a Basic unit of Living Systems and Cellular Organelles Concept, development and scope of biotechnology. Historical perspectives. Discovery of cell, the cell theory. Ultra structure of a eukaryotic cell- (Both plant and animal cells). **Surface Architecture:** Structural organization and functions of plasma membrane and cell wall of bacteria and plants. **Cellular Organelles:** Structure and functions of cell organelles – Endoplasmic reticulum, Golgi complex, Mitochondria, Chloroplast, Ribosome, Lysosomes, Peroxisomes, Nucleus (Nuclear envelope with nuclear pore complex, Nucleolus, Nucleoplasm and Chromatin). Vacuole, Cytosol and Cytoskeleton structures (Microtubules, Microfilaments and Intermediate filaments).	**14**

Unit II	
Chromosomes and Cell Division General introduction, discovery, morphology and structural organization – Centromere, Secondary constriction, telomere, chromonema, euchromatin and heterochromatin. Chemical composition and karyotype. Single-stranded and multi-stranded hypothesis- folded fibre and nucleosome models. Special type of chromosomes: Salivary gland and lampbrush chromosmes. **Cell Division:** Cell cycle, phases of cell cycle. Regulation of cell cycles cell cycle checkpoints, and enzymes involved in regulation. Significance of cell cycle, interphase nucleus, Stages of mitosis and meiosis, achromatic apparatus, synaptonemal complex. Cell senescence and programmed cell death.	**14**
Unit III	
Genetics **History of genetics:** Introduction and brief history of genetics. Mendelian theory: Laws of inheritance- dominance, segregation, incomplete dominance, co dominance with an example. Law of independent assortment, test cross, back cross. **Gene interaction:** Deviations to Mendelian inheritance- Supplementary factors: comb pattern in fowls, Complementary genes- Flower colour in sweet peas, Multiple factors–Skin colour in human beings, Epistasis– Plumage colour in poultry (13:3), Multiple allelism: Blood groups in Humans- ABO and Rh. **Maternal Inheritance:** Plastid inheritance in Mirabilis, petite characters in yeast and Kappa particles in paramecium, Sex-linked inheritance - Colour blindness, hemophilia, Y-linked traits.	**14**
Unit IV	
Linkage and Crossing Over Introduction, chromosome theory of inheritance, coupling and repulsion hypothesis, Linkage in maize and Drosophila. Mechanism of crossing over and its importance, chromosome mapping-linkage map in maize. **Chromosomal variations:** A general account of structural and numerical aberrations, chromosomal evolution of wheat and cotton. **Mutations:** Types of mutations, spontaneous and induced. Mutagens: Physical and chemical mutagens. Mutation at the molecular level, application of mutation-plants, animals and microbes. **Sex Determination in plants and animals:** Concept of allosomes and autosomes, XX- XY, XX-XO, ZW-ZZ, ZO-ZZ types. **Human Genetics:** Karyotype in man, inherited disorders – Allosomal (Klinefelter syndrome and Turner'ssyndrome), Autosomal (Down syndrome and Cri-Du-Chat syndrome). **Epigenetics:** Plants and humans.	**14**

CELL BIOLOGY AND GENETICS

1. Study and maintenance of simple and compound microscope

2. Use of Micrometer and calibration, measurement of onion epidermal cells and yeast

3. Study of divisional stages in mitosis from onion root tips

4. Study of divisional stages in meiosis in grasshopper testes/onion or Rhoeo flower buds.

5. Mounting of polytene chromosomes

6. Buccal smear - Barr bodies

7. Karyotype analysis - Human and Onion

8. Human – Normal and Abnormal – Down and Turner's syndromes

9. Isolation of Mitochondria and chloroplast and marker enzyme assay.

10. Morphological study of Wild male and female Drosophila and mutants of drosophila (Eye, Wing and body mutation).

11. Counting yeast Cell using haemocytometer.

12. Simple genetic problems based on theory

Text Books / References

1. Molecular Biology of Cell - Bruce Alberts et al, Garland publications.
2. Animal Cytology and Evolution- MJD, White Cambridge University Publications
3. Molecular Cell Biology-Daniel, Scientific American Books
4. Cell Biology - Jack d Bruke, The William Twilkins Company
5. Principles of Gene Manipulations- Old & Primrose, Black Well Scientific Publications
6. Cell Biology-Ambrose &Dorothy M Easty, ELBS Publications
7. Fundamentals of Cytology- L. W. Sharp, McGraw Hill Company
8. Cytology-Willson&Marrison, Reinform Publications
9. Molecular Biology- Christopher Smith, Faber & Faber Publications
10. Cell Biology & Molecular Biology – EDP De Robertis& EMF Robertis, Saunder College.
11. Cell Biology- C.B Powar, Himalaya Publications
12. Basic Genetics- Daniel L. Hartl, Jones &Barlett Publishers USA
13. Human Genetics and Medicine lark Edward Arnold P London
14. Genetics – Monroe W Strickberger, Macmillain Publishers, New York
15. Genes V - Benjamin Lewin, Oxford University Press.
16. Genes I - Benjamin Lewin, Wiley Eastern Ltd., Delhi
17. Genes II - Benjamin Lewin, Wiley & Sons Publications
18. Genes III- Benjamin Lewin, Wiley & Sons Publications
19. Principles of Genetics- Sinnott, L.C. Dunn, Dobzhansky, McGraw-Hill.
20. Genetics – Edgar Altenburg Oxford & IBH publications
21. Principles of Genetics – E.J. Gardener, M.J. Simmons and D.P. Snustad, John Wiley & Son Publications
22. Genetics- P.K.Gupta, Rastogi Publication, Meert, India

Web links:

1. https://www.genome.gov/genetics-glossary/Mitochondria
2. https://www.genome.gov/genetics-glossary/Cell-Cycle
3. https://bio.libretexts.org/Bookshelves/Human_Biology/Book%3A_Human_Biology_(Wakim_and_Grewal)/07%3A_Cell_Reproduction/7.2%3A_Cell_Cycle_and_Cell_Division
4. https://courses.lumenlearning.com/biology1/chapter/control-of-the-cell-cycle/

Course Articulation Matrix: 212159

Course Outcomes (COs) / Program Outcomes (POs)	Program Outcomes (POs)											
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
CO1	3	-	-	1	3	2	-	-	-	2	-	2
CO2	3	-	1	1	3	2	-	2	-	2	-	2
CO3	3	2	1	3	3	2	2	2	-	2	-	2
Weighted Average	**3**	**2**	**1**	**1.66**	**3**	**2**	**2**	**2**	**-**	**-**	**-**	**2**

OE (1) Biotechnology syllabus for All Programs (Except Science)

Semester 1

Course code: 21OEBIT101	**Course Title: Biotechnology for human welfare**
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week: 3 hrs** (Theory)
Total Contact Hours: 42 Hours (Theory)	**Formative Assessment Marks:** 40 (Theory)
Exam Duration: 2.5 Hours (Theory)	**Semester End Examination Marks:** 60 (Theory)

Course Outcomes:

After successful completion of this Course, students will be able to:

1. Comprehend the biotechnological applications in the industry, environmental management and forensic science.

2. Appreciate contributions of biotechnology to biomedical fields, such as diagnostics, genomics and therapeutics.

3. Describe the applications of Biotechnology in solving major environmental issues related to non-biodegradable materials and production of eco-friendly products as an alternative solution.

Contents	Hours
Unit 1	
Industry: Introduction, Scope, branches and applications of Biotechnology. Biotechnology in industry: Industrial production of alcoholic beverage (wine), antibiotic (Penicillin), enzyme (lipase). Applications of biotechnology in food, detergent and pharmaceutical industries	**14**
Unit II	
Environment: Application of biotechnology in environmental aspects. Bioremediation: Degradation organic pollutants, hydrocarbons andagricultural wastes, superbug. Bioplastics and Biofuels.	**14**
Unit III	
Forensic science and health science: Application of biotechnology in forensic science. Solving crimes of murder and rape, paternity testing and theft using DNA finger printing techniques. **Application of biotechnology in health**: Genetically engineered insulin, recombinant vaccines, gene therapy, diagnostics-ELISA and PCR, human genome project.	**14**

References

1. Crueger W and Crueger A. (2000). Biotechnology: A textbook of Industrial Microbiology.2nd edition. Panima Publishing Co. New Delhi.
2. Patel AH. (1996). Industrial Microbiology. 1st edition, Macmillan India Limited.
3. Stanbury PF, Whitaker A and Hall SJ. (2006). Principles of Fermentation Technology. 2nd edition, Elsevier Science Ltd.
4. Environmental Biotechnology, Pradipta Kumar Mohapatra
5. Environmental Biotechnology – Concepts and Applications, Hans-Joachim Jordening and Jesef Winter
6. B.B. Nanda and R.K. Tiwari, Forensic Science in India: A Vision for the Twenty
   1st First Century, Select Publishers, New Delhi (2001).
7. M.K. Bhasin and S. Nath, Role of Forensic Science in the New Millennium, University of Delhi, Delhi (2002).
8. S.H. James and J.J. Nordby, Forensic Science: An Introduction to Scientific and Investigative Techniques, 2nd Edition, CRC Press, Boca Raton (2005).
9. W.G. Eckert and R.K. Wright in Introduction to Forensic Sciences, 2nd Edition, W.G.Eckert (ED.), CRC Press, Boca Raton (1997).

Web links:

1. https://microbenotes.com/microbial-production-of-penicillin/
2. https://www.news-medical.net/health/Penicillin-Production.aspx
3. https://www.onlinebiologynotes.com/penicillin-production-commercially-by-fermentation-biotechnology/
4. https://courses.lumenlearning.com/boundless-microbiology/chapter/the-microbiology-of-food/#:~:text=Yeasts%20are%20the%20main%20fermentor,to%20alcohol%20and%20carbon%20dioxide.
5. https://www.britannica.com/topic/wine/Fermentation

Course Articulation Matrix
Course Code: 21OEBIT101

Course Outcomes (COs) / Program Outcomes (POs)	Program Outcomes (POs)											
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
CO1	3	-	1	-	3	2	-	3	-	2	-	2
CO2	3	2	1	-	3	2	-	3	-	2	-	2
CO3	3	2	-	-	3	2	3	3	-	2	-	2
Weighted Average	**3**	**2**	**1**	**-**	**3**	**2**	**3**	**3**	**-**	**2**	**-**	**2**

DSC (2) Syllabus for B.Sc. Biotechnology (Basic and Honors)

Semester II

Course Code: 212259	**Course Title:** Microbiological Methods (Theory) Microbiological Methods (Practical)
Course Credits: 06 (4:0:2)	**Hours of Teaching/Week: 8 hrs** 04 (Theory) + 04 (Practical)
Total Contact Hours: 56 Hours (Theory) 56 Hours (Practical)	**Formative Assessment Marks:** 40 (Theory) 25 (Practical)
Exam Duration: 2.5 Hours (Theory) 3 Hours (Practical)	**Semester End Examination Marks:** 60 (Theory) 25 (Practical)

Course Outcomes:

1. Apply the principles of microscopy to study microorganisms

2. Comprehend the importance and different methods of sterilization to carry our aseptic work in microbiology.

3. Analyze the different types of media, culture methods and staining techniques for isolation, characterization of microbes.

4. Classify the types and applications of antimicrobial agents and how to perform anti-microbial assays.

Contents	Hours
Unit 1	
General Microbiology and Instrumentation General Introduction to Microbiology: Scope and relevance of microbiology, important contributions by Robert Koch, Leeuwenhoek, Jenner, Pasteur, Flemming, Ivanowsky. General account on structure, classification and reproduction of bacteria, virus and fungi **Microscopy**: Principles and applications of Compound microscope, Dark field microscope, Phase contrast microscope, Fluorescence Microscope, Confocal microscope, Electron Microscopes- TEM and SEM. **Analytical techniques:** Working principles and applications: Centrifuge, Ultracentrifuge, Spectrophotometer, Chromatography: Paper, TLC, Column(adsorption, gel-filtration, ion exchange, affinity), HPLC, GC.	**14**

Unit II	
Sterilization techniques	
Definition of terms-sterilization, disinfectant, antiseptic, sanitizer, germicide, microbicidal agents, micro biostatic agent and antimicrobial agent.	
Physical methods of control: Principle, construction and applications of moist heat sterilization- Pasteurization, Boiling, Fractional sterilization-Tyndallization and autoclave. Dry heat sterilization-Incineration and hot air oven.
Filtration – Diatomaceous earth filter, seitz filter, membrane filter and HEPA
Radiation : Ionizing radiation-γ rays and non ionizing radiation- UV rays.
Chemical methods: Alcohol, aldehydes, phenols, halogen, metallic salts, quaternary ammonium compounds and sterilizing gases as antimicrobial agents.	**14**
Unit III	
Microbiological Techniques **Culture**	
Media: Components of media, natural and synthetic media, chemically, defined media, complex media, selective, differential, indicator, enriched and enrichment media.
Pure culture methods: Serial dilution and plating methods (pour, spread, streak); cultivation, maintenance and preservation/stocking of pure cultures; cultivation of anaerobic bacteria.
Microbial growth and its measurements: Growth curve, enumeration methods (turbidity, cell counting, colony counting).
Stains and staining techniques: Principles of staining, Types of stains simple stains.	**14**
Unit IV	
Antimicrobial Agents	
Antibiotic sensitivity testing methods: Disc and Agar well diffusion techniques.
Five modes of action with one example each: Inhibitor of nucleic acid synthesis; inhibitor of cell wall synthesis; Inhibitor of cell membrane function; Inhibitor of protein synthesis; Inhibitor of metabolism.
Antifungal agents: Mechanism of action of Amphotericin B, Griseofulvin
Antiviral agents: Mechanism of action of Amantadine, Acyclovir, Azidothymidine
Antibiotic resistance, MDR, XDR, MRSA, NDM-.1	**14**

II SEMESTER PRACTICAL PAPER

MICROBIOLOGICAL METHODS

1. To study the principle and applications of important instruments (biological safety cabinets, autoclave, incubator, BOD incubator, hot air oven, light microscope, pH meter) used in the microbiology and Biotechnology laboratory.
2. Sterilization of medium using Autoclave and assessment for sterility
3. Sterilization of glassware using Hot Air Oven and assessment for sterility
4. Sterilization of heat sensitive material by membrane filtration and assessment for Sterility.
5. Preparation of culture media for bacteria, fungi and their cultivation.
6. Plating techniques: Spread plate, pour plate and streak plate.
7. Isolation of bacteria and fungi from soil, water and air
8. Study of Rhizopus, Penicillium, Aspergillus using temporary mounts
9. Colony characteristics study of bacteria from air exposure plate
10. Staining techniques: Bacteria– Gram, Negative, Capsule, Endospore staining
11. Fungi – Lactophenol cotton blue staining
12. Water analysis - MPN test
13. Biochemical Tests – IMViC, Starch hydrolysis, Catalase test, Gelatin hydrolysis
14. Bacterial cell motility - hanging drop technique.

References :

1. Atlas RM. (1997). Principles of Microbiology. 2nd edition. Wm C Brown Publishers.
2. Black JG. (2008). Microbiology: Principles and Explorations. 7th Ed., Prentice Hall
3. Madigan MT, Martinko JM and Parker J. (2014). Brock Biology of Micro-organisms. 14th Ed., Prentice Hall International, Inc.
4. PelczarJr MJ, Chan ECS, and Krieg NR. (2004). Microbiology, 5th Ed., Tata McGraw Hill.
5. Srivastava S and Srivastava PS. (2003). Understanding Bacteria. Kluwer Academic Publishers, Dordrecht
6. Stanier RY, Ingraham JL, Wheelis ML and Painter PR. (2005). General Microbiology. 5th Ed., McMillan.
7. Tortora GJ, Funke BR, and Case CL. (2008). Microbiology: An Introduction. 9th Ed., Pearson Education.

Web Links:

1. https://www.sciencedirect.com/journal/journal-of-microbiological-methods
2. http://nhp.mowr.gov.in/docs/HP2/MANUALS/Water%20Quality/5014/-download-manuals-WaterQuality-WQManuals-21MicrobiologicalLa.pdf
3. https://www.ssqllp.com/types-sterilization-method-used-microbiology/
4. https://www.basu.org.in/wp-content/uploads/2020/11/
5. https://www.britannica.com/science/antimicrobial-agent

Course Articulation Matrix: 212259

Course Outcomes (COs) / Program Outcomes (POs)	Program Outcomes (POs)											
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
CO1	3	-	-	1	2	-	-	-	-	2	-	1
CO2	3	1	1	1	2	2	-	2	-	2	-	1
CO3	3	1	-	1	2	2	-	1	-	2	-	2
CO4	3	1	2	1	2	2	-	3	-	2	-	2
Weighted Average	**3**	**1**	**1.5**	**1**	**2**	**3**	**-**	**2**	**-**	**2**	**-**	**1.5**

OE (2) Biotechnology Syllabus for All Programs (Except Science)

Semester II

Course code: 21OEBIT201	**Course Title:** Applications of biotechnology in Agriculture
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week: 3 hrs** 03 (Theory)
Total Contact Hours: 42 Hours (Theory)	**Formative Assessment Marks:** 40 (Theory)
Exam Duration: 2.5 Hours (Theory)	**Semester End Examination Marks:** 60 (Theory)

Course Outcomes:

After successful completion of this Course, students will be able to:

1. Appreciate the concepts and scope of plant tissue culture in entrepreneurship and setting up small scale bioenterprises.

2. Interpret the importance, safety and ethical issues associated with GM crops and applications and advantages of Biopesticides

3. Comprehend production of edible vaccines, Nutraceuticals, antisense technology and bioethical issues.

Contents	Hours
Unit 1	
Agricultural Biotechnology Concepts and scope of biotechnology in Agriculture. Plant tissue culture, micro propagation, entrepreneurship in commercial plant tissue culture. Banana tissue culture - primary and secondary commercial setups, Small scale bioenterprises: Mushroom cultivation	**14**
Unit II	
Transgenic plants The GM crop debate – safety, ethics, perception and acceptance of GM crops GM crops case study :Bt cotton, Btbrinjal Biopesticides: Baculovirus pesticides, Mycopesticides Genetic Engineering for quality improvement: Golden rice, Seed storage proteins, Flavours– capsaicin, vanillin	**14**
Unit III	
Molecular pharming and post harvest protection Plants as biofactories for molecular pharming: edible vaccines, plantibodies, nutraceuticals Post-harvest Protection: Antisense RNA technology for extending shelf life of fruits and shelf life of flowers. Biosafety, bioethics and IPR	**14**

References

1. Chrispeels M.J.et al. Plants, Genes and Agriculture-Jones and Bartlett Publishers, Boston.1994.

2. Gamborg O.L. and Philips G.C.Plant cell, tissue and organ culture (2nd Ed.) Narosa Publishing House. New Delhi.1998

3. Hammound J, P McGravey&Yusibov.V. Plant Biotechnology, Springer verlag.2000

4. Heldt. Plant Biochemistry and Molecular Biology.Oxford and IBH Publishing Co. Pvt.Ltd. Delhi. 1997

5. LydianeKyte and John Kleyn.Plants from test tubes. An introduction to

6. Micropropagation (3 rd. Ed.). Timber Press, Portland. 1996

7. Murray D.R. Advanced methods in plant breeding and biotechnology.Panima Publishing Corporation.1996

8. NickoloffJ.A.Methods in molecular biology, Plant cell electroporation and electrofusion protocols-Humana press incorp, USA. 1995.

9. Sawahel W.A. Plant genetic transformation technology.Daya Publishing House, Delhi.1997

10. Gistou, P and Klu, H.Hand book of Plant Biotechnology (Vol. I & II).John Publication.2004

11. Sateesh M.K. 2008. Biosafety and Bioethics. Oxford and IBH Publishers, New Delhi.

WEB LINKS

1. https://www.fda.gov/food/consumers/agricultural-biotechnology
2. https://dbtindia.gov.in/schemes-programmes/research-development/agriculture-animal-allied-sciences/agriculture-biotechnology
3. https://www.isaaa.org/resources/publications/pocketk/26/default.asp
4. https://www.frontiersin.org/articles/10.3389/fpls.2018.01893/full

Course Articulation Matrix: 212260
Course code: 21OEBIT201

Course Outcomes (COs) / Program Outcomes (POs)	Program Outcomes (POs)											
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
CO1	3	1	-	1	2	2	2	1	-	2	3	2
CO2	3	1	-	1	2	2	3	3	-	2	1	2
CO3	3	1	-	1	2	2	3	3	-	2	1	2
Weighted Average	**3**	**1**	**-**	**1**	**2**	**2**	**3**	**2.6**	**-**	**2**	**1.6**	**2**

Continuous Formative Evaluation/Internal Assessment (DSC & OE)

Total marks for each course shall be based on continuous assessments and semester end examinations. The pattern is 40:60 for IA and Semester End Theory Examinations respectively and 50:50 for IA and Semester End Practical Examinations respectively.

Assessment Criteria	Theory	Practical
Continuous Assessment -1(C1)	20	10
Continuous Assessment -2 (C2)	20	15
Semester End Final Exam (C3)	60	25
Total Marks	**100**	**50**

Evaluation Process of IA Marks shall be as follows:

a) The first component (C1) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, project work etc. This assessment and score process should be completed after completing 50% of syllabus of the course and within 45 working days of semester program.

b) The second component (C2) of assessment is for 20% marks. This shall be based on test, assignment,

seminar, case study, field work, internship/industrial practicum/project work, quiz etc. This assessment and score process should be based on completion of remaining 50% of syllabus of the course of the semester.

c) During the 17th – 19th week of the semester, a semester end examination shall be conducted by the college for each course. This forms the third and final component of assessment (C3) and the maximum marks for the final component will be 60%.

d) In case of a student who has failed to attend the C1 or C2 on a scheduled date, it shall be deemed that the student has dropped the test. However, in case of a student who could not take the test on scheduled date due to genuine reasons, such a candidate may appeal to the Program Coordinator/Principal. The Program Coordinator/Principal in consultation with the concerned teacher shall decide about the genuineness of the case and decide to conduct special test to such candidate on the date fixed by the concerned teacher, but before commencement of the concerned semester end examinations.

e) For assignments, tests, case study analysis etc., of C1 and C2, the students should bring their own answer scripts (A4 size), graph sheets etc., required for such tests/assignments and these be sealed/signed by the concerned department at the time of conducting tests/assignment/project work etc.

f) The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) of a course shall be as under:

	C1 Marks	C2 Marks	Total Marks
Session Test	20	-	20
Seminar/Presentation/Assignment/Activity/Case Study/Field Work/Project Work/Quiz etc.	-	20	20
Total Marks	**20**	**20**	**40**

- For practical course of full credits, seminar shall not be compulsory. In its place, marks shall be awardedfor Practical Record Maintenance (the ratio is 25 (10 + 15):25).

- Conduct of Test, Seminar, Case study/Assignment etc., can be either in C1 or in C2 component as decidedby the college and concerned department/teacher.

- The teachers concerned shall conduct test/seminar/case study etc., The students should be informed about the modalities well in advance. The evaluated courses assignments during component I (C1) and component II (C2) of assessment are immediately provided to the candidates after obtaining acknowledgement in the register by the concerned teacher(s) and maintained by the Department.

- Before commencement of the semester end examination, the evaluated test, assignment etc., of C1 and C2 shall be obtained back to maintain them till the announcement of the results of the examination of the concerned semester.

g) The marks of the internal assessment shall be published on the notice board of the department/college for information of the students.

h) The internal assessment marks shall be communicated to the CoE at least 10 days before the commencement of the examinations and the CoE shall have access to the records of such periodical assessments.

i) There shall be no minimum in respect of internal assessment marks.

j) Internal assessment marks may be recorded separately. A candidate who has failed or rejected the result, shall retain the internal assessment marks.

Scheme of Valuation for Practical Examinations

C1 and C2 are internal tests to be conducted during 8th and 16th weeks respectively of the semester. C3 is the semester-end examination conducted for 3 hours.

The student will be evaluated on the basis of procedure development and its execution. The student has to compulsorily submit the practical record for evaluation during C2.

For C3, the record has to be certified by the Head of the Department.

The student is evaluated for 50 marks in C1, C2 and C3 as per the following scheme

Assessment Criteria	Assessment type	Marks
C1	Test Performance	**10**
C2	Test Performance + Record	**(10 + 5) = 15**
C3	Practical Exam	**25**
Total		**50**

PATTERN OF DSC QUESTION PAPER FOR I AND II SEMESTER EXAMINATION

Time: 2 ½ hours   **Max Marks: 60**

I.   **Answer any 6 questions**   **6X2=12**

        a)
        b)
        c)
        d)
        e)
        f)
        g)
        h)

II.   **Answer any one question**   **(UNIT-1)**   **1X12=12**

        2.

        3.

III.   **Answer any one question**   **(UNIT-1I)**   **1X12=12**

        4.

        5.

IV.   **Answer any one question**   **(UNIT-1II)**   **1X12=12**

        6.

        7.

V.   **Answer any one question**   **(UNIT-1V)**   **1X12=12**

        8.

        9.

Scheme for Practical Examination

I Semester Biotechnology Practical Examination
Cell Biology and Genetics

Maximum Marks 25   **Time: 3 hrs**

1. **Subject the given onion root tip for squash /Grasshopper testis preparation Show different mitotic /meiotic stages. Write the procedure for the same**

Or

   Determine the number of cells in the given sample using Haemocytometer. Write the procedure for the same

Or

   Calibrate and measure the given organism using ocular and stage micrometer. Write the procedure for the same.
   (Conducting experiment- 02 M, Procedure- 02 M, Calculation/ identification of stages- 03 M, Result- 01 M)   **08M**

2. **Identify the given Drosophila mutants A and B**
(Identification 01 M, Comment 01M and Diagram 01 M)   **06 M**

3. **Comment on C and D**
 (Identification 01 M, comment 01 M)   **04 M**

4. **Solve the given genetic problem**   **02 M**

5. **Viva Voce**   **05 M**

Scheme for Practical Examination

II Semester Biotechnology Practical Examination
Microbiology Methods

Max Marks: 25   **Time: 3hr**

1. **Perform gram staining technique**   **08 M**
   (Performance - 4M, Procedure - 2M, Result - 2M)

2. **Demonstration of pure culture technique (Streak, spread, pour plate)**   **04 M**
   (Performance - 2M, Procedure - 2M)

3. **Write 2 colony characteristics of an identified colony**   **02 M**

4. **Calculate the CFU for the problem**   **02 M**

5. **Comment on A and B**   **(2 x 2) = 04 M**
   (Identification - 1M, Comment -1M)

6. **Viva**   **05 M**

Time: 2 ½ hours   **Max Marks: 60**

I.   Answer any 10 questions   **10X2=20**

        a)

        b)

        c)

        d)

        e)

        f)

        g)

        h)

        i)

        j)

        k)

        l)

II.   Answer any 4 questions.   **4X10=40**

        2.

        3.

        4.

        5.

        6.

        7.

Board of Studies

Sl.No.	Name and address	Designation	Signature
1	Ms.Saraswathi P Assistant Professor and Head, Dept of Biotechnology SBRR Mahajana First Grade College Mysuru. Ph No. 9663218437 saraswathip.fgc@mahajana.edu.in	Chairman	Saraswathi P 28/09/2022
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8	Ms. Brunda A Tutor Department of Biochemistry, School of Life sciences, JSS Academy of Higher education and Research, Mysore Ph No 7259722515 brundaa@jssuni.edu.in	Member	Not Present

SBRR Mahajana First Grade College (Autonomous) Jayalakshmipuram, Mysuru

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BOARD OF STUDIES (BoS)

DEPARTMENT OF BUSINESS ADMINISTRATION

UG ✓

PG

NEP Syllabi for I and II Semester BBA 2021-22

DEPARTMENT OF BUSINESS ADMINISTRATION

Motto
TO CREATE BUSINESS LEADERS WITH
SOCIAL RESPONSIBILITY

Vision
To create and develop entrepreneurs who exhibit
professionalism, accountability, transparency, human values
and uphold Indian heritage in high esteem.

Mission
- Giving practical orientation to entrepreneurial ability.
- Giving professional exposure and building up leadership
  ability by organizing seminars, workshops, management fests
  and to make students participate in other similar activities.
- Make students to understand the importance of social
  responsibility in the corporate governance.
- Giving exposure on Indian ethos to future business leaders.

Programme outcomes for Business Administration

POs	Programme Outcomes (POs)
PO1	**Domain knowledge: Acquire** knowledge of management theories and practices with special focus on professional accounting and finance.
PO2	**Problem analysis:** Identify, formulate and analyze complex business problems in a structured approach to focus upon real issues.
PO3	**Design/development of solutions:** Developing solutions by using critical thinking and analytical reasoning with appropriate qualitative, quantitative techniques and software applications in solving business and research problems.
PO4	**Investigation and research:** Implementation of research methods to investigate specific business problems and draw conclusions.
PO5	**Use of modern techniques/tools**: Ability to analyze and interpret data using mathematical, statistical, ICT and risk management techniques to solve business problems.
PO6	**Business and Society**: Entrepreneurs/Managers with socio-economic value system.
PO7	**Environment and Sustainability:** Contemplate and Introspect prevailing environmental challenges and channelize inclination towards sustainable development.
PO8	**Moral and Ethical values**: Assimilate ethical, value based leadership skills and moral principles.
PO9	**Individual and Team work:** Ability to perform as an individual or leader in diverse settings.
PO10	**Communication and leadership skills:** Harness communication and leadership skills effectively to adapt to the growing business world.
PO11	**Project management and Finance:** Design methods and process; apply skills and knowledge to complete projects in accordance with project acceptance criteria and financial considerations.
PO12	**Lifelong Learning**: Evolve and improve as an individual by updating knowledge to enable oneself to thrive in social and professional life.

OBJECTIVES

1. To develop the skills required for the application of business concepts and techniques learnt in the classroom at the workplace.

2. To provide competent and technical skills personnel to the industry in the area of Marketing, Finance, Human Resource, Data Analytics, Retailing and Logistics And Supply Chain Management. To enhance the employability skills of the management students.

3. To enhance the capability of the students to improve their decision-making skills.

4. To encourage entrepreneurship among students pursuing education in the field of Business Administration.

5. To empower students for pursuing professional courses like MBA, Chartered Accountancy, Company Secretary, etc.,

6. To ensure holistic development of Business administration students

LIST OF BoS MEMBERS

Sl. No.	Category	Name Smt./Sri	Designation	Address for Communication	E-mail and Mobile No.
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		3. Sunil.N	Assistant Professor	SBRR Mahajana First Grade College, Mysore	sunil9284@gamil.com 9900148051
		4. Dr.Nirmala.N	Assistant Professor	SBRR Mahajana First Grade College, Mysore	nirmalamysore223@gmail.com 7483907737
3	Two Experts from external university	1. Prejna.N.Pai	Assistant Professor	Jain Deemed-to-be-university Bangalore	prejna@gmail.com 9900212911
		2. Sunayana	Assistant Professor & HOD	Amritha school of Arts& Science, Mysore	sunayanadiger@gmail.com 9880980506
4	Nominee by the Vice Chancellor	Dr. R Mahesh	Associate Professor	DoS in Management BIMS, Manasa Gangothri, Mysore	mahesh@bims.uni-mysore.ac.in 9886639536
5	Two Person from Industry /Corporate Sector / Allied area	1. Rajesh R	Chartered Accountant	B S Ravi kumar & Associates Chartered Accountants, Mysore	rajesh@bsra.in 9448229994
		2. Lokesh V	Managing Director & CEO	Innomantra consulting Pvt. Ltd. Bangalore	lokeshv@innomantra.com 9845272555
6	Alumnus	Tejasvi Nathan	Vice President, HR	Swiss Re Global Business solutions India Pvt. Ltd., Bangalore	tejasvinathan@gmail.com 9900084170

Course Structure (NEP 2020)
Discipline Specific Course (DSC), Open Elective (OE)
BBA – I Year

Course Type, Code and Name		Hours/ Week		Credits	Maximum Marks			Exam Duration	Total Marks
					IA		Exam		
		L	T/P	L:T:P	C1	C2	C3		
I Semester									
DSC (1) 214129	Management Principles& Practice	4	0	4:0:0	20	20	60	2 ½ hrs.	100
DSC (2) 214130	Fundamentals of Business Accounting	4	0	4:0:0	20	20	60	2 ½ hrs.	100
DSC (3) 214131	Marketing Management	4	0	4:0:0	20	20	60	2 ½ hrs.	100
OE (1)	1. Business Organization 21OEBBA101 2. Office Organization and Management 21OEBBA102 (Any one to be opted)	3	0	3:0:0	20	20	60	2 ½ hrs.	100

II Semester									
DSC (4) 214229	Financial Accounting andReporting	4	0	4:0:0	20	20	60	2 ½ hrs.	100
DSC (5) 214230	Human Resource Management	4	0	4:0:0	20	20	60	2 ½ hrs.	100
DSC (6) 214231/32	Business Environment/ Business Mathematics	4	0	4:0:0	20	20	60	2 ½ hrs.	100
OE (2)	1. People Management 21OEBBA201 2. Retail Management 21OEBBA202 (Any one to be opted)	3	0	3:0:0	20	20	60	2 ½ hrs.	100

DSC (1) Syllabus for BBA
Semester - I

Course Code: 214129	Course Title: Management Principles & Practice
Course Credit (L:T:P): 4(4:0:0)	Teaching Hours/Week:4
Total Contact Hours:56 Hrs	Formative Assessment Marks: 40
Duration of Exam: 2 ½ Hours	Semester End Examination Marks: 60

Pedagogy: Classrooms lecture, tutorials, Group discussion, Seminar, Case studies & field work etc.,

Course Outcomes: On successful completion of the course, the Students will;

CO1: Acquire knowledge on the concepts of business management, principles and function of management.

CO2: Analyze and interpret the process of planning and decision making.

CO3: Design organization structures based on authority, task and responsibilities.

CO4: Gain knowledge and apply the principles of direction, importance of communication,barrier of communication, motivation theories and leadership styles.

CO5: Analyze the real rime scenarios requirement of good control system and control techniques.

CO6: Evaluate the concepts of CSR as a device for promoting sustainable development.

Syllabus:	Hours
Module No. 1: INTRODUCTION TO MANAGEMENT	**10**
Introduction –Meaning, Schools of Management Thought (in brief), Nature and Characteristics of Management - Scope and Functional areas of Management; Management as a Science, Art or Profession; Management and Administration; Principles of Management.	
Module No. 2: PLANNING AND DECISION MAKING	**08**
Nature, Importance and Purpose of Planning - Planning Process; Objectives; Types of plans (Meaning only); Decision making- Importance and steps; MBO and MBE (Meaning only)	
Module No. 3: ORGANIZING AND STAFFING	**12**
Nature and purpose of Organization; Principles of Organizing; Delegation of Authority; Types of Organization - Departmentation, Committees; Centralization vs Decentralization ofAuthority and Responsibility, Span of Control; Nature and importance of Staffing	
Module No. 4: DIRECTING AND COMMUNICATING	**12**
Meaning and Nature of Direction, Principles of Direction; Communication - Meaning and Importance, Communication Process, Barriers to Communication, Steps to overcome Communication Barriers, Types of Communication;. Leadership –Meaning, Formal and Informal Leadership, Characteristics of Leadership; Leadership Styles – Autocratic Style, Democratic Style, Participative Style, Laissez Faire Leadership Styles, Transition Leadership, Charismatic Leadership Style.	
Module No. 5: COORDINATING AND CONTROLLING	**10**
Coordination–Meaning, Importance and Principles. Controlling-Meaning and steps in controlling, Essentials of Effective Control system, Techniques of Control (in brief).	

Module No. 6: BUSINESS SOCIAL RESPONSIBILITY MANAGERIAL ETHICS	04
Business Social Responsibility - Meaning, Arguments for and against Business Social Responsibility; Green management - Meaning, Green management concepts; Managerial Ethics – Meaning - Importance of Ethics in Business, Factors that determine Ethical or Unethical behavior.	

Skill Developments Activities:
1. Two cases on the above syllabus should be analyzed by the teacher in the classroomand the same needs to be recorded by the student in the Skill Development Book.
2. Draft different types of Organization structure.
3. Draft Control charts.

Text Books:

1. Stephen P. Robbins, Management, Pearson
2. Koontz and O‟Donnell, Management, McGraw Hill.
3. L M Prasad, Principles of management, Sultan Chand and Sons
4. V.S.P Rao/Bajaj, Management process and organization, Excel Books.GH25
5. Appanniah and Reddy, Management, HPH.
6. T. Ramaswamy : Principles of Management, HPH.

Note: Latest edition of text books may be used.

Course Articulation Matrix - 214129

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1	1	-	1	1	-	1	1	2	1	1
CO2	2	2	2	1	1	1	2	2	2	2	-	2
CO3	2	1	2	1	1	1	-	2	1	1	-	2
CO4	2	2	2	-	2	1	-	2	1	3	-	1
CO5	2	3	2	2	2	1	1	1	2	2	1	1
CO6	3	2	1	2	2	1	3	2	2	2	1	2
WA	2.16	1.83	1.6	1.5	1.5	1	2	1.66	1.5	2	1	1.5

DSC (2) Syllabus for BBA

Semester - I

Course Code: 214130	Course Title: Fundamentals of Business Accounting
Course Credit (L:T:P): 4(4:0:0)	Teaching Hours/Week: 4
Total Contact Hours:56	Formative Assessment Marks: 40
Duration of Exam: 2 ½ Hours	Semester End Examination Marks: 60

Pedagogy: Classrooms lecture, tutorials, and problem solving.

Course Outcomes: On successful completion of the course, the Students will;

CO1: Acquire the knowledge on framework of accounting as well accounting standards.

CO2: Pass journal entries, prepare ledger accounts and trail balance independently

CO3: Analyze and prepare cash book and Bank Reconciliation Statement.

CO4: Illustrate and draw up final accounts of proprietary concern.

CO5: Construct final accounts through application of tally.

Syllabus:	Hours
Module No. 1: INTRODUCTION TO FINANCIAL ACCOUNTING	**08**
Introduction – Meaning and Definition – Objectives of Accounting – Functions of Accounting– Users of Accounting Information – Limitations of Accounting – Accounting Cycle - Accounting Principles – Accounting Concepts and Accounting Conventions. Accounting Standards – objectives- significance of accounting standards. List of Indian Accounting Standards.	
Module No. 2: ACCOUNTING PROCESS	**12**
Meaning of Double entry system − Process of Accounting − Kinds of Accounts − Rules - Transaction Analysis − Journal − Ledger − Balancing of Accounts − Trial Balance − Problemson Journal, Ledger Posting and Preparation of Trial Balance.	
Module No. 3: SUBSIDIARY BOOKS	**14**
Meaning − Significance − Types of Subsidiary Books −Preparation of Purchases Book, Sales Book, Purchase Returns Book, Sales Return Book, Bills Receivable Book, Bills Payable Book. Types of Cash Book- Simple Cash Book , Double Column Cash Book ,Three column cash book(Problems on Three column cash book) Depreciation Accounting (simple problems on straight line and WDV method), Bank Reconciliation Statement − Preparation of Bank Reconciliation Statement (Problems on BRS)	
Module No. 4: FINAL ACCOUNTS OF PROPRIETARY CONCERN	**10**
Preparation of Statement of Profit and Loss and Balance Sheet of a proprietary concern withspecial adjustments like depreciation, outstanding and prepaid expenses, outstanding and received in advance of incomes, provision for doubtful debts, drawings and interest on capital.	

Module No. 5:	ACCOUNTING	SOFTWARE	12

Introduction-meaning of accounting software, types accounting software-accounting software Tally-Meaning of Tally software − Features − Advantages, Creating a New Company, Basic Currency information, other information, Company features and Inventory features. Configuring Tally - General Configuration, Numerical symbols, accounts/inventory info − master configuration -voucher entry configuration. Working in Tally: Groups, Ledgers,writing voucher, different types of voucher, voucher entry Problem on Voucher entry - Generating Basic Reports in Tally-Trail Balance, Accounts books, Cash Book, Bank Books, Ledger Accounts, Group Summary, Sales Register and Purchase Register, Journal Register, Statement of Accounts, and Balance Sheet**.**

Skill Developments Activities:
1. List out the accounting concepts and conventions.
2. Prepare a Bank Reconciliation Statement with imaginary figures
3. Collect the financial statement of a proprietary concern and record it.
4. Prepare a financial statement of an imaginary company using tally software.

Text Books:

1. Hanif and Mukherjee, Financial Accounting, Mc Graw Hill Publishers
2. Arulanandam & Raman; Advanced Accountancy, Himalaya Publishing House
3. S.Anil Kumar,V.Rajesh Kumar and B.Mariyappa–Fundamentals of Accounting,
4. Himalaya Publishing House.
5. Dr. S.N. Maheswari, Financial Accounting, Vikas Publication
6. S P Jain and K. L. Narang, Financial Accounting, Kalyani Publication
7. Radhaswamy and R.L. Gupta, Advanced Accounting, Sultan Chand
8. M.C. Shukla and Goyel, Advanced Accounting, S Chand.
Note: Latest edition of text books may be used.

Course Articulation Matrix - 214130

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	-	-	-	-	1	-	-	1	1	1	1
CO2	3	2	2	-	-	1	-	-	1	1	1	1
CO3	3	2	2	-	-	1	-	-	1	1	1	1
CO4	3	2	2	-	-	1	-	-	1	1	1	1
CO5	3	-	1	-	2	1	-	-	1	1	1	1
WA	**3**	**2**	**1.75**	**-**	**2**	**1**			**1**	**1**	**1**	**1**

DSC (3) Syllabus for BBA

Semester - I

Course Code: 214131	Course Title: Marketing Management
Course Credit (L:T:P): 4(4:0:0)	Teaching Hours/Week:4
Total Contact Hours:56	Formative Assessment Marks: 40
Duration of Exam: 2 ½ Hours	Semester End Examination Marks: 60

Pedagogy: Classrooms lecture, tutorials, Group discussion, Seminar, Case studies & field work etc.,

Course Outcomes: On successful completion of the course, the Students will;

CO1: Acquire knowledge on the concepts and functions of marketing.

CO2: Analyze the marketing environment impacting the business.

CO3: Segment the market and analyze consumer behaviour

CO4: Gain knowledge about 4 P's of marketing and also strategize marketing mix

CO5: Acquire knowledge of 7 P's of service marketing mix.

Syllabus:	Hours
Module No. 1: INTRODUCTION TO MARKETING	10
Meaning and Definition, Concepts of Marketing, Approaches to Marketing, Functions of Marketing. **Recent trends in Marketing**-E- business, Tele-marketing, M-Business, Green Marketing, Relationship Marketing, Concept Marketing, Digital Marketing, social media marketing and E-tailing (Meaning only).	
Module No. 2: MARKETING ENVIRONMENT	10
Micro Environment – The company, suppliers, marketing intermediaries competitors, publicand customers; **Macro Environment**- Demographic, Economic, Natural, Technological, Political, Legal, Socio-Cultural Environment.	
Module No. 3: MARKET SEGMENTATION AND CONSUMER BEHAVIOUR	10
Meaning and Definition, Bases of Market Segmentation, Requisites of Sound Market Segmentation; Consumer Behavior-Factors influencing Consumer Behavior; Buying DecisionProcess.	
Module No. 4: MARKETING MIX	20
Meaning, Elements of Marketing Mix (Four P's) – Product, Price, Place, Promotion. Product-Product Mix, Product Line, Product Lifecycle, New Product Development, Reasonsfor Failure of New Product, Branding, Packing and Packaging, Labeling(Concepts only) Pricing – Objectives, Factors influencing Pricing Policy, Methods of Pricing; Physical Distribution–Meaning, Factors affecting Channel Selection (Concepts only) . Promotion – Meaning and Significance of Promotion, Personal Selling and Advertising (Meaning Only)	
Module No. 5: SERVICES MARKETING	06
Meaning and definition of services, difference between goods and services, features of services, seven P's of services marketing (concepts only).	

Skill Developments Activities:
1. Two cases on the above syllabus should be analyzed and recorded in the skill development
2. Design a logo and tagline for a product of your choice
3. Develop an advertisement copy for a product.
4. Prepare a chart for distribution network for different products.

Text Books:

1. Philip Kotler, Marketing Management, Prentice Hall.
2. Lovelock Christopher, Services Marketing: People, Technology, Strategy, PHI
3. William J. Stanton, Michael J.Etzel, Bruce J Walker, Fundamentals of Marketing, McGrawHill Education.
4. Bose Biplab, Marketing Management, Himalaya Publishers.
5. J.C. Gandhi, Marketing Management, Tata McGraw Hill.
6. Ramesh and Jayanti Prasad: Marketing Management, I.K. International
7. Sontakki, Marketing Management, Kalyani Publishers.
8. P N Reddy and Appanniah, Marketing Management
Note: Latest edition of text books may be used.

Course Articulation Matrix - 214131

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1	1	-	2	2	1	1	2	2	1	2
CO2	2	2	2	2	2	2	2	2	2	2	2	2
CO3	2	2	3	2	2	2	1	2	2	3	1	2
CO4	3	2	3	2	2	1	1	1	2	2	2	2
CO5	2	2	2	1	1	2	2	2	2	2	1	2
WA	**2.2**	**1.8**	**2.2**	**1.75**	**1.8**	**1.8**	**1.4**	**1.6**	**2.0**	**2.2**	**1.4**	**2**

OE (1) Syllabus for BBA

Semester - I

Course Code: 21OEBBA101	Course Title: Business Organisation
Course Credit (L:T:P): 3(3:0:0)	Teaching Hours/Week:3
Total Contact Hours:45	Formative Assessment Marks: 40
Duration of Exam: 2 ½ Hours	Semester End Examination Marks: 60

Pedagogy: Classrooms lecture, tutorials, Group discussion, Seminar, Case studies & field work etc.,

Course Outcomes: On successful completion of the course, the Students will :

CO1: Acquire the knowledge on the nature, objectives and social responsibilities of business

CO2: Exemplify the different forms of organizations

CO3: Appraise the features and functions of public enterprises

CO4: Identify and compare different types of business combinations

CO5: Illustrate the basic concepts and functions of management

Syllabus:	Hours
Module No. 1: INTRODUCTION TO BUSINESS	**10**
Business: Meaning, Nature, Scope and Social responsibility of Business, Objectives, Essentials of successful business; Functional areas of business. Concept of Business Organisation.	
Module No. 2: FORMS OF BUSINESS ORGANIZATION:	**12**
Sole proprietorship: Definitions, Features, Merits and Demerits. Partnership: Definitions, partnership deed, Features, Merits and Demerits. Joint Stock Company: Definitions, Features, Merits and Demerits.Co-operatives: Definitions, Features, Merits and Demerits.	
Module No. 3:PUBLIC ENTERPRISES	**08**
Departmental Undertaking: Definitions, Features, Merits and Demerits. Public Corporations: Definitions, Features, Merits and Demerits. Government Companies: Definitions, Features, Merits and Demerits	
Module No. 4:BUSINESS COMBINATIONS	**08**
Meaning Definitions, Causes, Types, Forms, merits and demerits ofBusiness Combinations, Recent Trends in Business Combinations.	
Module No 5: MANAGEMENT OF ORGANIZATIONS	**07**
Management- Meaning, Definitions, Difference between Management and Administration, Levels of Management, Objectives of Management, Functions of management- planning, organizing, staffing, directing, coordinating, controlling, Principles of Management.	

Skill Developments Activities:
1. Preparation of partnership deed
2. Draw a business tree
3. Make a list of 10 PSUs
4. Prepare a list of different types of business combinations

Text Books:

1. C B. Guptha - Business Organisation and Management, Sultan Chand & Sons.
2. Dr. S. C. Saxena - Business Administration & Management, Sahitya Bhawan.
3. M. C. Shukla - Business Organisation and Management. S Chand & Company Pvt. Ltd.
4. S.A Sherlekar - Business Organization, Himalaya Publishing House.
5. Y.K. Bhushan. Fundamentals of Business Organisation and Management, Sultan Chand& Sons.
6. R.K. Sharma, Business Organisation & Management Kalyani Publishers
7. Dr. I.M. Sahai, Dr. Padmakar Asthana,' **Business Organisation & Administration'**, Sahitya Bhawan Publications Agra.

Note: Latest edition of text books may be used.

Course Articulation Matrix - 21OEBBA101

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	-	-	-	-	1	-	1	1	-	1	1
CO2	2	-	-	-	-	1	-	1	1	-	1	1
CO3	2	-	-	-	-	1	-	1	1	-	1	1
CO4	2	-	-	-	-	1	-	1	1	-	1	1
CO5	2	-	-	-	-	1	-	1	1	-	1	1
WA	**2**	**-**	**-**	**-**	**-**	**1**	**-**	**1**	**1**	**-**	**1**	**1**

Course Code: 21OEBBA102	Course Title: Office Organisation and Management
Course Credit (L:T:P): 3(3:0:0)	Teaching Hours/Week:3
Total Contact Hours:45	Formative Assessment Marks: 40
Duration of Exam: 2 ½ Hours	Semester End Examination Marks: 60

Pedagogy: Classrooms lecture, tutorials, Group discussion, Seminar, Case studies & field work etc.,

Course Outcomes: On successful completion of the course, the Students will;
CO1: Acquire knowledge with respect to office organisation and management
CO2: Apply skills in effective office organisation
CO3: Proficiency to maintain office records
CO4: Maintain digital records effectively
CO5: Analyze different types of organisation structures and responsibilities asfuture office managers.

Syllabus:	Hours
Module No. 1: FUNDAMENTALS OF OFFICE MANAGEMENT	**08**
Introduction: Meaning, importance and functions of modern office **Modern Office Organisation**: Meaning; Steps in office organisation; Principles of Office organisation, Organisation structure types, **Nature of office services**: Types of services in a modern office, decentralisation and centralisation of office services, Departmentation of Office **Office management**: Meaning, Elements and major processes of Office management **Office Manager:** Functions and qualifications of Office manager.	
Module No. 2: ADMINISTRATIVE ARRANGEMENT FACILITIES	**07**
Office Accommodation and its Importance: Location of Office, Choice of Location: Urban vsSuburban, Factors to be Considered in Selecting the Site, Securing Office Space, **Office Lay-out**: Objectives of Office Lay-out, Principles of Office Lay-out, Steps in Lay-outPlanning, Advantages of a Good Lay-out. **Types of offices**: Open Office and Private Office- advantages and disadvantages.	
Module No. 3: OFFICE ENVIRONMENT:	**10**
Meaning and Components of Office Environment **Interior Decoration**: Colour Conditioning, Floor Coverings, Furnishings, **Furniture and Fixtures:** Types of Furniture, Choice between Wooden and Steel Furniture,Principles Governing Selection of Furniture **Lighting** and Ventilation, **Noise:** Internal Noise, External Noise **Cleanliness, Sanitation and HealthSafety and Security**	

Module No. 4: RECORDS MANAGEMENT	10

Introduction to records: Importance of Records, types of office records,
Records Management: Meaning, Principles of Record Keeping, Functions of 'RecordsManagement
Filing: Elements of Filing and Filing Functions, Objectives and Importance of Filing, Advantages of Filing, Essentials of a Good Filing System, Classification of Files, Filing Procedure or Routine.

Filing Methods: Horizontal Filing -meaning, types and advantages, Vertical Filing- meaning,equipment used, advantage and disadvantages.
Centralisation and Decentralisation of Filing- Centralised filing and Decentralised Filing
Office manual: contents, Importance, types of office manuals.
Indexing: Meaning, importance, advantages and essentials of good indexing, type of index
Retention and disposal of files: Meaning and benefits of record retention, need for disposal of files, life-cycle stages of files.

Module No. 5: OFFICE MECHANISATION AND DATA PROCESSING	10

Meaning, Importance and Objectives of Office Mechanisation, Advantages and disadvantages of Office Mechanisation, Factors Determining Office Mechanisation

Kinds of Office Machines: Duplicating Machines and Photocopying Machines, Accounting, tabulating and computing machines, communication machines

Introduction to Data and Information: Distinction between Data and Information, Importance of Data and Information, Classification of Data, Classification of Information, Data Lifecycle (chart), **Data Collection Methods-** Primary and secondary data collection methods

 Data presentation Methods of Presentation of Data

Data processing using computers: Components of Computers, Input and Output Devices,

Software used in Computers (names and uses only), Computer Applications in Office' Management, Advantages and Limitations of Computerisation

Skill Developments Activities:
1. Visit an office and enlist the different types of machines used in the office
2. Identify the different types of stationery used in offices today
3. Draw a data life cycle chart
4. Draw charts indicating different types of office layouts.

Text Books:

1. S.P Arora, Office Organisation and Management, Vikas Publishing House Pvt Ltd

2. M.E Thakuram Rao, Office organisation and Management, Atlantic

3. Judith Read, Mary Lea Ginn, Record Management, 10th Edition, Cengage Learning.

Note: Latest edition of text books may be used.

Articulation Matrix - 21OEBBA102

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	2	2	2	2	1	2	2	2	2	2
CO2	2	2	2	2	2	2	-	2	2	2	2	2
CO3	2	2	2	2	2	2	-	2	2	2	2	2
CO4	2	2	2	2	3	2	-	2	2	1	2	2
CO5	2	2	2	2	2	3	1	2	2	2	2	2
WA	**2.2**	**2**	**2**	**2**	**2.2**	**2.2**	**1**	**2**	**2**	**1.8**	**2**	**2**

Semester - II

Course Code: 214229	Course Title: Financial Accounting and Reporting
Course Credit (L:T:P):4 (4:0:0)	Teaching Hours/Week:4
Total Contact Hours:56	Formative Assessment Marks: 40
Duration of Exam: 2 ½ Hours	Semester End Examination Marks: 60

Pedagogy: Classrooms lecture, tutorials, and Problem Solving.

Course Outcomes: On successful completion of the course, the Students will;

CO1: Analyze and prepare final accounts of partnership firms

CO2: Acquire knowledge about the process of public issue of shares and accounting for thesame

CO3: Construct final accounts of joint stock companies.

CO4: Analyze and evaluate vertical and horizontal analysis of financialstatements

CO5: Analyze, interpret and understand company's annual reports.

Syllabus:	Hours
Module No. 1: FINAL ACCOUNTS OF PARTNERSHIP FIRM	**10**
Meaning of Partnership Firm, Partnership deed-clauses in partnership deed, Preparation of Final accounts of partnership firm-Trading and Profit and Loss Account, Profit and Loss Appropriation Account, Partners capital account and Balance sheet. Goodwill- Nature, Factors influencing goodwill and methods of valuation of goodwill (Average and super profit methods)	
Module No. 2: ISSUE OF SHARES	**12**
Meaning of Share, Types of Shares – Preference shares and Equity shares – Issue of Shares at par, at Premium, at Discount: Forfeiture and Re-issue of Shares (Theory only), Pro-Rata Allotment; Journal Entries relating to issue of shares; Preparation of respective ledger accounts; Preparation of Balance Sheet in the Vertical form (Practical Problems).	
Module No. 3: FINAL ACCOUNTS OF JOINT STOCK COMPANIES	**12**
Statutory Provisions regarding preparation of Company Final Accounts – Treatment of Special Items, Managerial Remuneration, Tax deducted at source, Advance payment of Tax, Provision for Tax, Depreciation, Interest on debentures, Dividends, Rules regarding payment of dividends, Transfer to Reserves, Preparation of Profit and Loss Account and Balance Sheet (Vertical Form Schedule -III) (Practical Problems).	
Module No. 4: FINANCIAL STATEMENTS ANALYSIS	**12**
Comparative Statements - Comparative Income Statement, Comparative Balance Sheet; Common size Statements – Common Size Income Statement, Common Size Balance Sheet –Trend Percentages. (Analysis and Interpretation)	

Module No. 5: CORPORATE FINANCIAL REPORTING PRACTICES	10

Corporate Financial Reporting - meaning, types, characteristics of Corporate financial report, users of corporate financial report; Components corporate financial report– general corporate information, financial highlights, letter to the shareholders from the CEO, management's discussion and analysis; Financial Statements-balance sheet, income statement, cash flow statement, and notes to the financial statements; Auditor's report; Significant Accounting Policies; Corporate Governance Report; Corporate Social Responsibility Report (Discuss only
Role and Significance of above components of corporate financial report).

Skill Developments Activities:
1. Collect financial statement of a company for five years and analyse the same usingtrend analysis.
2. Refer annual reports of two companies and list out the components.
3. Draft a partnership deed as per Partnership Act.
4. List out the accounting policies in annual report of the company

Text Books:

1. Stephen P. Robbins, Management, Pearson
2. Koontz and O"Donnell, Management, McGraw Hill.
3. L M Prasad, Principles of management, Sultan Chand and Sons
4. V.S.P Rao/Bajaj, Management process and organization, Excel Books.GH25
5. Appanniah and Reddy, Management, HPH.
6. T. Ramaswamy : Principles of Management, HPH.

Note: Latest edition of text books may be used.

Course Articulation Matrix - 214229

PO\CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	2	1	2	1	-	1	2	3	2	2
CO2	3	3	2	2	3	2	2	2	1	2	2	2
CO3	2	2	3	1	2	1	-	2	2	2	2	2
CO4	3	3	3	2	3	1	1	2	2	2	2	2
CO5	2	1	1	2	2	1	-	2	2	2	2	2
WA	2.6	2.4	2.2	1.6	2.4	1.2	1.5	1.8	1.8	2.2	2	2

DSC (5) Syllabus for BBA	
Semester - II	
Course Code: 214230	Course Title: Human Resource Management
Course Credit (L:T:P): 4(4:0:0)	Teaching Hours/Week:4
Total Contact Hours:56	Formative Assessment Marks: 40
Duration of Exam: 2 ½ Hours	Semester End Examination Marks: 60

Pedagogy: Classroom's lecture, tutorials, Group discussion, Seminar, Case studies & field work etc.,

Course Outcomes: On successful completion of the course, the students will;

CO1: Acquire knowledge on the role and responsibility of Human resources managementfunctions on business

CO2: Analyze HRP, Recruitment and Selection process

CO3: Acquire knowledge on induction, training, and compensation aspects.

CO4: Analyze performance appraisal and its process.

CO5: Gather knowledge on Employee Engagement and Psychological Contract.

Syllabus:	Hours
Module No. 1: Introduction to Human Resource Management	**10**

Meaning and Definition of HRM – Features Objectives, Differences between Human Resource Management and Personnel Management, Importance, Functions and Process of HRM, Role of HR Manager, Trends influencing HR practices

Module No. 2: Human Resource Planning, Recruitment & Selection	**14**

Human Resource Planning: Meaning and Importance of Human Resource Planning, Process of HRP

HR Demand Forecasting- Meaning and Techniques (Meanings Only) and HR supply forecasting.

Job Analysis: Meaning and Uses of Job Analysis, Process of Job Analysis – Job Description, Job Specification**,** Job Enlargement, Job Rotation, Job Enrichment (Meanings Only)

Recruitment – Meaning, Methods of Recruitment, Factors affecting Recruitment, Sources ofRecruitment

Selection – Meaning, Steps in Selection Process, Psychometric tests for Selection, Barriers toeffective Selection, Making Selection effective; Placement, Gamification – Meaning and Features

Module No. 3: Induction, Training and Compensation	**10**

Induction: Meaning, Objectives and Purpose of Induction.

Training: Need for training, Assessment of Training Needs andMethods of Training and Development; Kirkpatrick Model; Career Development.

Compensation: Direct and Indirect forms of Compensation (Meaning Only).

Module No. 4: Performance Appraisal, Promotion & Transfers	14
Performance appraisal: Meaning and Definition, Objectives and Methods of PerformanceAppraisal – Uses and Limitations of Performance Appraisal, Process of Performance Appraisal **Promotion**: Meaning and Definition of Promotion, Purpose of Promotion, Basis of Promotion **Transfer:** Meaning of Transfer, Reasons for Transfer, Types of Transfer.	

Module No. 5: Employee Engagement and Psychological Contract	08
Employee Engagement (EE): Meaning and Types of EE, Drivers of Engagement -Measurement of EE, Benefits of EE.	

Skill Developments Activities:
1. Preparation of Job Descriptions and Job specifications for a Job profile
2. Choose any MNC and present your observations on training program
3. Develop a format for performance appraisal of an employee.
4. Discussion of any two Employee Engagement models.
5. Analysis of components of pay structure based on the CTC sent by theCorporate to the institute for the various jobs of different sectors.

Textbooks:

Aswathappa, Human Resource Management,
McGraw HillEdwin Flippo, Personnel
Management, McGraw Hill C.B.Mamoria,
Personnel Management, HPH

Subba Rao, Personnel and Human Resources
Management, HPHReddy & Appanniah, Human Resource
Management, HPH Madhurimalal, Human Resource
Management, HPH

S.Sadri & Others: Geometry of HR, HPH

Rajkumar: Human Resource Management
I.K. Intl

Michael Porter, HRM and Human Relations, Juta & Co.Ltd.

K. Venkataramana, Human Resource Management,
SHBPChartered Accountants of India, New Delhi.

Note: Latest edition of textbooks may be used.

Course Articulation Matrix - 214230

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1	-	-	1	1	-	2	2	2	-	2
CO2	2	2	2	2	1	2	-	2	2	2	-	2
CO3	2	2	2	2	2	2	-	2	2	2	1	2
CO4	2	2	2	2	2	1	-	1	2	2	-	2
CO5	1	2	2	2	1	1	-	2	2	2	-	2
WA	**1.8**	**1.8**	**2**	**2**	**1.4**	**1.4**	**-**	**1.8**	**2**	**2**	**1**	**2**

DSC (6) Syllabus for BBA Semester - II	
Course Code: 214231	Course Title: Business Environment
Course Credit (L:T:P): 4 (4:0:0)	Teaching Hours/Week:4
Total Contact Hours:56	Formative Assessment Marks: 40
Duration of Exam: 2 ½ Hours	Semester End Examination Marks: 60

Pedagogy: Classrooms lecture, tutorials, Group discussion, Seminar, Case studies.

Course Outcomes: On successful completion Student will;

CO1: Acquire the knowledge on components of business environment.
CO2: Analyze the environmental factors influencing business organisation.
CO3: Evaluate Competitive structure analysis for select industry.
CO4: Illustrate impact of fiscal policy and monetary policy on business.
CO5: Draw Inference about the impact of economic environmental factors on business.

Syllabus:	Hours
Module No. 1: INTRODUCTION BUSINESS ENVIRONMENT	**12**
Meaning of business, scope and objectives Business, business environment, Micro and Macro-environment of business (social, cultural, economic, political, legal technological and natural) Impact of these factors on decision making in business, Environmental analysis, and Competitive structure analysis of Business.	
Module No. 2: GOVERNMENT AND LEGAL ENVIRONMENT	**16**
Government Functions of the State, Economic role of government, State intervention in business- reasons for and types of state intervention in business. Impact of Monetary policy,Fiscal policy, Exim policy and industrial policy on business. **Legal environment -** Various laws affecting Indian businesses	
Module No. 3: ECONOMIC ENVIRONMENT AND GLOBAL ENVIRONMENT	**13**
An overview of economic environment, nature of the economy, structure of economy, factors affecting economic environment. **Globalisation of business;** meaning and dimensions, stages, essential conditions of globalisation, foreign market entry strategies, merits and demerits of globalisation of business, Impact of Globalisation on Indian businesses, Forms of globalisation of businesses - MNCs, TNCs etc..	
Module No. 4: TECHNOLOGICAL ENVIRONMENT	**10**
Meaning and features; types of innovation, Impact of Technological changes on business, Technology and Society, Technological Acquisition modes, IT revolution and business,Management of Technology.	
Module No. 5: NATURAL ENVIRONMENT	**05**
Meaning and nature of physical environment. Impact of Natural environment on business.	

Skill Developments Activities:

a) List out key features of recent Monetary policy published by RBI impactingbusinesses.
b) Give your observation as to how technology has helped society.
c) Draft Five Forces Model for Imaginary business.
d) Identify the benefits of Digital transformation in India.

Course Articulation Matrix - 214231

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	2	2	1	2	2	2	1	1	1	2
CO2	2	1	1	1	1	1	2	2	1	1	2	2
CO3	2	2	2	2	2	2	-	2	2	2	2	2
CO4	2	1	1	1	1	1	-	-	-	-	1	1
CO5	2	2	2	1	1	2	1	2	2	1	2	2
WA	2.2	1.6	1.6	1.4	1.2	1.6	1.6	2	1.25	1.25	1.6	1.4

Course Code: 214232	Course Title: Business Mathematics
Course Credit (L:T:P): 4(4:0:0)	Teaching Hours/Week:4
Total Contact Hours:56	Formative Assessment Marks: 40
Duration of Exam: 2 ½ Hours	Semester End Examination Marks: 60

Pedagogy: Classroom's lecture, tutorials, Problem solving.

Course Outcomes: On successful completion of the course, the students will;

CO1: Apply basic concepts of business maths to solve and interpret application problems in business

CO2: Build types of equation to solve business problem

CO3: Solve problems on Matrices, determinants and evaluate them.

CO4: Utilize the concept of simple interest and compound interest and apply them in day-to-day life.

CO5: Analyze the problems on Arithmetic progression, Geometric progression and c:nstruct logical application of these concepts.

Syllabus:	Hours
Module No. 1: NUMBER SYSTEM	**04**
Introduction – Natural Numbers - Even Numbers – Odd Numbers – Integers – Prime Numbers – Rational and Irrational numbers, Real Numbers, HCF and LCM (Simpleproblems).	
Module No. 2: THEORY OF EQUATIONS	**10**
Introduction – Meaning - Types of Equations – Simple/ Linear Equations and SimultaneousEquations (only two variables), Elimination and Substitution Methods only. Quadratic Equation - Factorization and Formula Method (ax^2 + bx + c = 0 form only). Simple problems.	
Module No.3: MATRICES AND DETERMINANTS	**16**
Meaning – types – operation on matrices – additions – subtractions and multiplication of two matrices – transpose – determinants – minor of an element – co-factor of an element – inverse – crammers rule in two variables – problems.	
Module No. 4: COMMERCIAL ARITHMETIC	**16**
Simple Interest, Compound Interest including yearly and half yearly calculations, Percentages, Ratios and proportions	
Module No. 5: PROGRESSIONS	**10**
PROGRESSIONS: Arithmetic Progression - Finding the 'nth' term of AP and Sum to nth term of AP.– Finding the 'nth' term of GPand sum to 'nth' term of GP .	

Skill Developments Activities:

1. Develop an Amortization Table for Loan Amount – EMI Calculation.
2. Secondary overhead distribution summary using Simultaneous EquationsMethod.
3. Application of Matrix In Business Problems

Text Books:

1. Saha: Mathematics for Cost Accountants, Central Publishers
2. R.G. Saha and Others – Methods and Techniques for Business Decisions, VBH
3. Dr. SanchetiandKapoor: Business Mathematics and Statistics, Sultan Chand
4. Zamarudeen: Business Mathematics, Vikas
5. R.S Bhardwaj :Mathematics for Economics and Business
6. Madappa, mahadi Hassan, M. IqbalTaiyab – Business Mathematics, Subhash
7. G.R. Veena and Seema : Business Mathematics and Statistics I.K. Intl Publishers

Note: Latest edition of text books may be used.

Course Articulation Matrix - 214232

P\CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	2	2	1	1	-	1	1	-	1	2
CO2	2	1	1	1	1	1	-	-	1	-	1	1
CO3	2	2	2	2	1	1	-	1	2	1	2	2
CO4	2	2	2	2	1	1	-	1	-	-	1	1
CO5	2	1	1	1	1	1	-	-	-	-	1	1
WA	2.2	1.6	1.6	1.6	1	1	-	1	1.3	1	1.2	1.4

OE (2) Syllabus for BBA Semester - II	
Course Code: 21OEBBA201	Course Title: People Management
Course Credit(L:T:P): 3 (3:0:0)	Teaching Hours/Week:3
Total Contact Hours:45	Formative Assessment Marks: 40
Duration of Exam: 2 ½ Hours	Semester End Examination Marks: 60

Pedagogy: Classroom's lecture, tutorials, Group discussion, Seminar, Case studies.

Course outcome: On successful completion of the course, student will:

CO1: Examine the difference between People Management with Human resource Management

CO2: Perform the role of manager in different stages of performance management and List modern methods of performance and task assessment.

CO3: Illustrate the importance of peer network and essentials of communication

CO4: Analyze and relate the concept of motivation.

CO5: Examine the importance of self management, stress management and work life balance

Syllabus:	Hours
Module No. 1: Introduction to People Management	**06**
Diversity in organisation: age, gender, ethnicity, race, and ability. People Management: Meaning, Features, Significance of people management, Difference between People Management and Human Resource Management, impact of individual and organizational factors on people management.	
Module No. 2: Getting Work Done and Assessment and Evaluation	**12**
Getting work done: Challenges of getting work done, significance of prioritization and assigning work to team members. Performance Management: meaning, role of a manager in the different stages of the performance management process, Types of Performance assessment, Assessment and Evaluation Process of evaluation of tasks in the organisation. Modern tools of assessment and evaluation of tasks and performance.	
Module No. 3: Building Peer Networks and Essentials of Communication	**12**
Building Peer Networks: Understanding the importance of peer networks in an organization; being able to influence those on whom you have no authority; challenges Peernetworking and different types of people networking in the workplace. **Essentials of Communication**: Concept of the communication process with reflection on various barriers to effective communication and ways to overcome, Types of Communication and Channels of Communication.	
Module No. 4: Motivation	**08**
Meaning, Importance and need for motivation, team motivation- meaning, importance teammotivation, types of Motivators and Modern methods of motivation	

Module No. 5:	**Managing Self**	07

Reflection on what does it mean to be a people manager; building a personal development
plan for oneself, Self-Stress Management: Causes for stress, work life Balance,
Importance ofWork life balance, Factors influencing Work life Balance.

Skill Developments Activities:

1. Analyse two cases on any of the above content indicated above.
2. List out the modern tools to performance assessment and evaluation.
3. Conduct a survey of work life balance of working individuals
4. Draft a Career development of working individual in the middle level management.

Text Books:

1. McShane, Steven L. and Mary Ann Von Glinow, Organizational Behavior: Emerging Knowledge and Practice for the Real World. McGraw-Hill, latest edition, ISBN: 0-07- 115113-3.
2. Bernardin, H. John and Joyce E. A. Russell. Human Resource Management: An Experiential Approach. McGraw-Hill, 6/e. ISBN: 0078029163
3. Argyris, C. (1974). Personality vs. Organization. Organizational Dynamics. Vol. 3. No. 2, Autumn.
4. Blume, B. Baldwin, T. and Ryan, K. (2013). Communication Apprehension. A barrier to students leadership, adaptability and multicultural appreciation. Academy of Management Learning & Education, Jun, Vol. 12 Issue 2, p158-172.
5. Colquitt, J.A., LePine, J.A., & Wesson, M.J. (2009) Organizational Behavior: Improving Performance and Commitment in the Workplace (International edition). New York: McGraw-Hill.
6. Goleman, D. (1998). Working with Emotional Intelligence. Bantam Books,

Note: Latest edition of text books may be used.

Course Articulation Matrix - 21OEBBA201

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1	-	-	-	1	-	-	1	1	-	1
CO2	2		1	-	-	1	-	-	1	1	-	1
CO3	2		1	-	-	1	-	-	1	1	-	1
CO4	2	1	1	-	-	1	-	-	1	1	-	1
CO5	2		1	-	-	1	-	-	1	1	-	1
WA	**2**	**1**	**1**	**-**	**-**	**1**	**-**	**-**	**1**	**1**	**-**	**1**

OE (2) Syllabus for BBA	
Semester - II	
Course Code: 21OEBBA202	Course Title: Retail Management
Course Credit (L:T:P): 3(3:0:0)	Teaching Hours/Week:3
Total Contact Hours:45	Formative Assessment Marks: 40
Duration of Exam: 2 ½ Hours	Semester End Examination Marks: 60

Pedagogy: Classroom's lecture, tutorials, Group discussion, Seminar, Case studies.

Course Outcomes: On successful completion Student will;

Co1: Acquire knowledge on the types and forms of Retail business.

CO2: Review Consumer Behavior in various environment.

CO3: Understand various Retail operations and evaluate them.

CO4: Analyze various marketing mix elements in retail operations.

CO5: Equip with the applications of Information Technology in retail business.

Syllabus:	Hours
Module No. 1: INTRODUCTION TO RETAIL BUSINESS	**08**
Definition – functions of retailing - types of retailing – forms of retail business ownership.Retail theories – Wheel of Retailing – Retail life cycle. Retail business in India: Influencing factors – present Indian retail scenario.	
Module No. 2: CONSUMER BEHAVIOUR IN RETAIL BUSINESS	**08**
Buying decision process and its implication on retailing – Influence of group and individual factors, Customer shopping behaviour, Customer service and customer satisfaction.	
Module No. 3: RETAIL OPERATIONS	**08**
Factors influencing location of Store - Market area analysis – Trade area analysis – Rating Plan method - Site evaluation. Retail Operations: Stores Layout and visual merchandising,Stores designing, Space planning, Inventory management, Merchandise Management, Category Management.	
Module No. 4: RETAIL MARKETING MIX	**14**
Introduction -Product : Decisions related to selection of goods (Merchandise Management revisited) – Decisions related to delivery of service. Pricing : Influencing factors – approaches to pricing – price sensitivity - Value pricing – Markdown pricing. Place : Supply channel – SCM principles – Retail logistics – computerized replenishment system – corporate replenishment policies. Promotion : Setting objectives – communication effects - promotional mix.	
Module No. 5: INFORMATION TECHNOLOGY IN RETAILING	**07**
Non store retailing (e-retailing) - The impact of Information Technology in retailing - Integrated systems and networking – EDI – Bar coding – Electronic article surveillance – Electronic shelf labels – customer database management system.	

Skill Developments Activities:

1. Draw a retail life cycle chart and list the stages
2. Draw a chart showing a store operations
3. List out the major functions of a store manager diagrammatically
4. List out the current trends in e-retailing
5. List out the Factors Influencing in the location of a New Retail outlet

Text Books:

1. Suja Nair; Retail Management, HPH

2. Karthic – Retail Management, HPH

3. S.K. Poddar & others – Retail Management, VBH.

4. R.S Tiwari ; Retail Management, HPH

Note: Latest edition of text books may be used.

Course Articulation Matrix - 21OEBBA202

	PO1	PO2	P03	P04	P05	P06	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1	1	--	1	--	1	2	1	2	2	2
CO2	1	2	1	--	1	--	1	1	1	2	2	1
CO3	1	3	2	--	1	--	2	1	1	2	2	2
CO4	1	3	2	--	1	--	2	1	1	2	1	1
CO5	1	3	2	--	1	--	1	1	1	2	1	1
WA	1.2	2.4	1.6	--	1	--	1.4	1.2	1	2	1.6	1.4

Guidelines for Continuous Internal Evaluation and Semester End Examination:

The CIE and SEE will carry 40% and 60% weightage each, to enable the course to be evaluated for a total of 100 marks, irrespective of its credits. The evaluation system of the course is comprehensive& continuous during the entire period of the Semester. For a course, the CIE and SEE evaluation will be on the following parameters:

Sl. No.	Parameters for the Evaluation	Marks
	Continuous Internal Evaluation(CIE)	
1	Continuous & Comprehensive Evaluation(CCE) – (A)	20Marks
2	Internal Assessment Tests(IAT) –(B)	20Marks
	Total of CIE(A+B)	40Marks
3	Semester End Examination(SEE) – (C)	60Marks
	Total of CIE and SEE(A+B+C)	100Marks

Continuous Internal Evaluation:

a. **Continuous & Comprehensive Evaluation (CCE):**

The CCE will carry a maximum of 20% weightage (20marks) of total marks of a course. Before the start of the academic session in each semester, a faculty member should choose for his/her course, minimum of four of the following assessment methods with 5 marks each (4x5=20 marks)

Individual Assignments
   i.   Seminars/Class Room Presentations/Quizzes
   ii. Group Discussions/Class Discussion/Group Assignments
   iii. Case studies/Caselets
   iv. Participatory &Industry-Integrated Learning/Industrial visits
   v.   Practical activities/Problem Solving Exercises
   vi. Participation in Seminars/Academic Events/Symposia, etc.
   vii. Mini Projects/Cap stone Projects

b. **Internal Assessment Tests (IAT):** The IAT will carry a maximum of 20% weightage (20marks) of total marks of a course. Under this component, two tests will have to be conducted in a semester for 30 marks each and the same is to be scaled downto10 marks each.

PATTERN OF QUESTION PAPER

TIME : 2 ½ HOURS   **MARKS: 60**

PART – A

Answer any FIVE of the following questions. Each question carries 2 marks. (5x2= 10)

1. ---
2. ---
3. ---
4. ---
5. ---
6. ---
7. ---

PART – B

Answer any TWO of the following questions. Each question carries 10 Marks.
                                            (2x10 =20)
8. ---
9. ---
10. ---
11---

PART – C

Answer any TWO of the following questions. Each question carries 15 Marks
                                        (2X15=30)
12---
13---
14---
15---

SBRR Mahajana First Grade College (A)
Board of Studies-Business Administration 2021-22

Sl. No.	Name & Address	Designation	Signature
1	Smt. Shyla S Assistant Professor & HOD SBRR Mahajana First Grade College Mysore shylas.fgc@mahajana.edu.in 9845859475	Chairman	Shyla-S 3/9/2022
2	Dr. Manjunath V Assistant Professor SBRR Mahajana First Grade College Mysore vmanjunath.joge@gmail.com 9900306941	Member	Manjunath 3/9
3	Dr.Anita B R Assistant Professor SBRR Mahajana First Grade College Mysore anitaprapti@gmail.com 9901114867	Member	Anita.B.R 3/09/2022
4	Sri.Sunil N Assistant Professor SBRR Mahajana First Grade College Mysore 9900148051 sunil9284@gmail.com	Member	Sunil 3/9/22
5	Dr.Nirmala.N Assistant Professor SBRR Mahajana First Grade College Mysore nimalamysore223@gmail.com 7483907737	Member	Nirmala.N 3/9/2022
6	Dr. R. Mahesh Professor DoS in Business Administration, Manasagagothri, Mysuru mahesh@bims.uni-mysore.ac.in 9886639536	Member	03/05/10
7	Ms.Sunayana Assistant Professor & Head Department of Commerce and Management, Amritha Vishwa Vidyapeetham, Mysore sunayanadiger@gmail.com 9880980506	Member	Not Present
8	Ms. Prejna.N.Pai Assistant Professor Jain Deemed-to-be-university Bangalore prejna@gmail.com 9900212911	Member	Not Present

9	Sri.Lokesh V Managing Director & CEO Innomantra Consulting Pvt. Ltd. Bengaluru lokeshv@innomantra.com 9845272555	Member	Not Present
10	Sri.Rajesh R Chartered Accountant rajesh@bsra.in 9448229994	Member	R. Rajesh
11	Sri.Tejasvi Nathan Vice President - HR Swiss Re Global Business Solutions India Pvt Ltd, Bengaluru tejasvinathan@gmail.com 9900084170	Member	Not Present

Shyla.S
Chairperson
BOS/BOE in Business Administration
SBRR Mahajana First Grade College
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Jayalakshmipuram, Mysuru-570 012

Mahajana Education Society (R.)
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SBRR MAHAJANA FIRST GRADE COLLEGE (Autonomous)
Jayalakshmipuram, Mysuru – 570 012
Affiliated to University of Mysore Re-accredited by NAAC with 'A' Grade
College with Potential for Excellence

BOARD OF STUDIES

DEPARTMENT OF COMMERCE

UG ☑

PG ☐

NEP Syllabi for I and II Semester

2021-22

DEPARTMENT OF COMMERCE

Motto:

Simply Better

Vision:

Imparting contemporary education to make the students well versed in the domain of Business and honing the students to mount high with the prevailing corporate scenario.

Mission:

Giving a practical edge to the curriculum by building life skills through service oriented programs and to pursue knowledge through academics, extracurricular activities to develop the student's personality with a strong value base.

BCOM -Programme Outcomes

PO 1	**Domain Knowledge-** Inculcation of fundamental concepts, principles and application of the same.
PO 2	**Problem Analysis-** Identifying and analyzing the problems in the field of business.
PO 3	**Design & Development of Solutions-** Adapting INDAS, Companies act, designing the costing techniques and methods, marketing strategies, business and tax planning along with its approaches.
PO 4	**Research and Investigation-** Research methodology with SPSS, probabilities and testing of hypothesis.
PO 5	**Modern Techniques & Tools**- Technology based education towards revolutionizing the skills.
PO 6	**Domain & Society-** Inculcating positive impact on the society and making accountable by imparting the significance and its applicability.
PO 7	**Environment & Sustainability-** Capable of handling the uncertainties to sustain the current challenges.
PO 8	**Moral & Ethical Values-** Inculcate ethical values in aiming towards Corporate social responsibility.
PO 9	**Individual & Teamwork-** Assimilate the quality of personnel through adoption of scientific management studies and curtail any flaws without conflicts.
PO 10	**Communication-** Stream light the thoughts to reach the goals by creating tactical outreach plans.
PO 11	**Project Management & Finance-** Create opportunities through well planned diversified projects.
PO 12	**Life Long Learning-** Develop an inquisitiveness in continuous and self-motivated approach towards grooming the global leaders.

Department of Commerce
Board of Studies 2021-2022

Sl.No.	Category	Name	Designation	Address for Communication
1	Chairman	Capt. B.R. Nikil	Assistant Professor and HOD	Department of Commerce SBRR Mahajana First Grade College, Jayalakshmipuram, Mysore -12
2	Faculty of the Department	Smt. Rekha. B	Assistant Professor	Department of Commerce SBRR Mahajana First Grade College, Jayalakshmipuram, Mysore -12
		Smt. Vasagi S	Assistant Professor	Department of Commerce SBRR Mahajana First Grade College, Jayalakshmipuram, Mysore -12
		Ms. Vaishali Venkatappa	Assistant Professor	Department of Commerce SBRR Mahajana First Grade College, Jayalakshmipuram, Mysore -12
		Dr. Bhavani M	Associate Professor and Head of the Department	Department of Commerce Mahajana PG Center, Mysore.
3	Two Experts from Other University	Dr. Srinivas K T	Associate Professor & Chairman	Department of Studies in Commerce, Davangere University, Davangere.
		Dr. Parameshwara	Associate Professor	Department of Commerce, Mangalore University, Konaje Mangalore.
4	Nominee by the Vice Chancellor	Prof. Nagaraja N	Professor	DoS in Commerce, University of Mysore, Manasagangothri, Mysuru-570006.
5	Alumnus	R. Rajesh	Chartered Accountant	B S Ravikumar & Associates, Mysuru,
6	Industrial Expert	Smt. Nandini R Muttur	Partner	Geartech Solutions, Hebbal Industrial Area, Mysuru

B.Com Program Structure [NEP] 2021-22
Credit Pattern for Courses
L: Lecture; T: Tutorial; P: Practical

		I SEMESTER B.COM						
Sl. No.	Course Code	Title of the Course	Category of Courses	Teaching Hours per week (L:T:P)	CIE C1+C2 T+SD 20+20	SEE C3	Total Marks	Credits
1.	213129	Financial Accounting – I	DSC 1	4:0:0	40	60	100	4
2.	213130	Management Principlesand Applications	DSC 2	4:0:0	40	60	100	4
3.	213131	Principles of Marketing	DSC 3	4:0:0	40	60	100	4
4.	21OECOM101 21OECOM102	A. Basics of Accounting **OR** B. Managing Workforce	OE 1	3:0:0	40	60	100	3
	Total for the I Semester				**160**	**240**	**400**	**15**
		II SEMESTER B.COM						
5.	213229	Financial Accounting – II	DSC 4	4:0:0	40	60	100	4
6.	213230	Company Law	DSC 5	4:0:0	40	60	100	4
7.	213231	Law and Practice ofBanking	DSC 6	4:0:0	40	60	100	4
8.	21OECOM201 21OECOM202	A. Financial Literacy **OR** B. Retail Management	OE 2	3:0:0	40	60	100	3
	Total for the II Semester				**160**	**240**	**400**	**15**

I SEMESTER
DISCIPLINE SPECIFIC COURSE (DSC) 1

Course Code: 213129	**Course Title:** FINANCIAL ACCOUNTING – I
Course Credits: 4 .(L:T:P): 4:0:0	**Teaching Hours/Week: 04 Hours**
Total Contact Hours: 64 Hours	**Formative Assessment Marks: 40**
Exam Duration: 2 1/2 Hours	**Semester End Examination Marks: 60**

Course Objective:
To enable the students to understand the system of preparing financial statement of sole trading concern and to create an awareness in the students about Financial Reporting Standards.

Course Outcome:
CO1- Acquire the knowledge about basics of Financial Accounting with reference to IND AS and IFRS.
CO2- Drafting of Hire Purchase System and Installment System.
CO3- Knowledge of transacting Royalty Accounting
CO4- Prepare and analyze financial statements of sole trading concerns.

UNIT – I Introduction to Financial Accounting: (10 Hours)
Meaning, Definition and scope of Accounting– Objectives of Accounting – Functions of Accounting – Branches of Accounting – Accounting Principles - Accounting Concepts and Conventions – Accounting Standards: Meaning and Objectives - Indian Accounting Standards, IND AS, IFRS – Distinction between IND AS and IFRS.

UNIT – II Accounting for Hire Purchase System: (15 Hours)
Meaning – Features of Hire purchase system – Calculation of interest under different methods – ascertainment of cash price of an asset – repossession (theory) - problems on hire purchase system (assets accrual method only)

UNIT –III Accounting for Installment System: (15 Hours)
Meaning–Features of installment system – differences between hire purchase and installment system–problems on installment system.

UNIT – IV Royalty Accounts: (14 Hours)
Meaning and Definition – Terms used – Royalty – Minimum rent – Short workings – surplus royalty – recoupment of short workings – stoppage of work due to abnormal causes – problems on royalty including minimum rent account.

UNIT – V Final accounts of Sole Trading Concern: (10 Hours)
Financial statements – Preparation of Trading and Profit and loss account and Balance sheet with adjustments**.**

SKILL DEVELOPMENT
1. Visit 3 Sole Trading Concerns and Collect the Financial Statements of it.
2. Collect a copy of Hire Purchase agreement.
3. Identify the businesses where Royalty accounting is applied
4. Prepare Royalty Analytical Table with imaginary figures.
5. Identify the differences between IND AS and IFRS with respect to IAS 1, IAS 16, IAS 36,IAS 37 and IAS 38

Books for Reference:
1. Accounting Principles; Anthony, R.N. and Reece, J.S.: Richard Irwin Inc.
2. Financial Accounting; Gupta, R.L and Radhaswamy, M: Sultan Chand and Sons, New Delhi.
3. Financial Accounting; Prof B.H Suresh and Dr. G.H Mahadevaswamy
4. Advanced Accounts; Shukla. M.C., Grewal T.S., and Gupta, S.C.: S. Chand & Co. New Delhi.
5. Compendium of Statement and Standards of Accounting: The Institute of Chartered Accountants of India, New Delhi.
6. Financial Accounts, Mishra A.K.: Sahitya Bhawan Publishers and Distributor.

Web links:

Course Articulation Matrix – 213129

Course/Program Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	2	-	2	2	2	1	1	2	1	1
CO2	2	2	2	1	2	-	2	1	1	2	1	1
CO3	2	2	2	-	2	-	2	1	2	2	1	1
CO4	2	2	2	1	2	-	2	1	2	2	1	1
W/AVG	2	2	2	1	2	2	2	1	1.5	2	1	1

I SEMESTER
DISCIPLINE SPECIFIC COURSE (DSC) 2

Course Code: 213130	Course Title: Management Principles and Applications
Course Credits: 4. (L:T:P): 4:0:0	Teaching Hours/Week: 04 Hours
Total Contact Hours: 64 Hours	Formative Assessment Marks: 40
Exam Duration: 2 1/2 Hours	Semester End Examination Marks: 60

CourseObjective:

To enable the students to understand the various functions of management□ various types of organisation and to create awareness in the students about application of management principles in business organizations.

CourseOutcomes:

CO1-Identify the different theories of organization in the present context

CO2-Gain the knowledge of planning process and organizing.

CO3-Compare and chose the different types of motivation factors and leadership styles

CO4-Using techniques of Control and Principles of Coordination.

UNIT – I Introduction to Management: (14 Hours)

Meaning and Definition – Nature and Characteristics of Management – Scope of Management – Levels of Management - Administration Vs. Management –Functions of Management – Evolution of management thought: contributions of F.W. Taylor and Henry Fayol.

UNIT – II Planning: (12 Hours)

Meaning and Definition – Characteristics of Planning, Importance and Benefits of Planning – Steps in planning – Types of Planning – Limitations of Planning – Decision making concept.

UNIT – III Organizing: (14 Hours)

Meaning and Definition – Principles of Organisation – Formal Vs.Informal Organisation - Types of Orgnisation - Functional Organisation – Matrix Organisation – Team based Organisation – Departmentation – Decentralisation and Delegation of authority.

UNIT – IV Leadership: (12 Hours)

Meaning – Qualities of a good leader – Types of Leadership styles – Motivation concept and theories – Maslow's hierarchy of needs – Herzberg's dual factor theory – McGregor's theory X and theory Y.

UNIT – V Controlling: (12 Hours)

Meaning and Definition – Importance of control – Steps in controlling - techniques of control – PERT, CPM, JIT – Co-ordination – Need for Co-ordination - Principles of Co-ordination.

SKILL DEVELOPMENT

1. Visit any business organization and collect the type of planning adopted by them.
2. Collect bio-data and photographs of any two leading contributors of management thoughts.
3. Analyze the leadership styles of any selected five companies of different sectors.
4. Visit any manufacturing unit and identify the controlling system followed.
5. Draw the Organisation chart of any two business concern.

Books for Reference:
1. Principles of Management by Koontz and O'Donnell, McGraw Hill Education.
2. Business Management by C.B.Gupta, Sultan Chand and sons
3. Principles and practice of Management by L.M. Prasad, Sultan Chand and Sons
4. Management, Stoner A F and Freeman R.E, Prentice Hall
5. P.C. Tripathi & P N Reddy, Principles of Management, TMH Publications
6. Management: Principles and Practices by Ricky W. Giffin

Web links:
https://www.geeksforgeeks.org/what-is-management/
https://businessjargons.com/planning.html

Course Articulation Matrix – 213130

Course/Program Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	-	-	-	1	1	1	1	1	2	-	1
CO2	2	1	1	1	-	-	2	1	-	1	-	1
CO3	2	-	1	-	1	2	1	2	2	2	1	2
CO4	2	1	1	1	1	1	1	1	1	1	1	1
W/AVG	2	1	1.5	1	1.3	1.3	1.25	1.25	1.3	1.5	1	1.25

I SEMESTER
DISCIPLINE SPECIFIC COURSE (DSC) 3

Course Code: 213131	**Course Title: Principles of Marketing**
Course Credits: 4. (L:T:P): 4:0:0	**Teaching Hours/Week: 04 Hours**
Total Contact Hours: 64 Hours	**Formative Assessment Marks: 40**
Exam Duration: 2 1/2 Hours	**Semester End Examination Marks: 60**

CourseObjective:
  To enable students to understand the basic concepts and principles of Marketing

CourseOutcome:
CO1- Deal with Marketing Environment, Marketing Mix and Online Marketing.
CO2- Identify the Stages involved in New Product Development and PLC.
CO3-Know the role of Pricing Strategies, Physical Distribution modes.
CO4- Application of Principles of marketing by business firms.

UNIT – I Introduction to Marketing: (12 Hours)
Meaning and Definition of Market, Marketing- Core Marketing Concepts - Marketing Mix - Marketing environment - Functions of Marketing. 4Ps and 7Ps of marketing mix. Online Marketing- Relationship between Technology, Globalisation , Social Responsibility and online marketing.

UNIT – II Product : (12 Hours)
Meaning of a Product - Product Plan -–Diffusion (Adoption) of Innovations- New Product idea - Stages in New Product Development- Causes for Failure of a new product - Product life cycle and Marketing strategy.

UNIT – III Price and Promotion: (16 Hours)
Price: Meaning – Pricing Strategy – Types of Pricing Strategies. Promotion: Meaning and Role of Promotion – Types of Promotion – Personal selling – Advertising – Publicity and Sales promotion - Elements of Promotional mix – Factors affecting Promotion Mix.

UNIT - IV Place in Marketing mix: (14 Hours)
Channels of Distribution – Types of Channels of Distribution-Middlemen and Distribution-Selection of the type of Channel - Retailing –Nature and Importance–Non-store retailing-Wholesaling and Physical Distribution-Nature and Importance of Wholesaling and Physical Distribution.

UNIT – V Consumer Behaviour: (10 Hours)
Meaning - Features – Scope- Importance- Models of ConsumerBehaviour - Consumer reference groups and their types – Consumer Behavior in Online marketing.

SKILL DEVELOPMENT

1. Name any five FMCG companies in India and identify the pricing strategy used by each one of them.
2. Select any five firms in automobile industry and identify the promotional methods used by each of the firm.
3. Identify any five products that failed in the market and identify the causes of failure for each of the products.
4. Select any five products and identify the various channels of distribution used for each of them.
5. Identify a product in the growth stage and write about 4Ps of marketing in it.

Books for Reference

1. Principle of Marketing- Philip Kotler, Gary Armstrong and Prafulla Agnihotri, Pearson Publication
2. Principles of Marketing – Robert H. Utaraid and Brajendra Kr Gupta
3. Principles of Marketing – Charles W Lamb, Cengage India Learning P Ltd
4. Principles of Marketing – Dr Amit Kumar, Sahitya Bhawan Publications
5. Marketing – Grewal and Levy, Mc Graw Hill Publication

Web links:

https://engaiodigital.com
https://www.superheuristics.com

Course Articulation Matrix – 213131

Course/Program Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	1	-	-	2	1	1	-	3	-	1
CO2	2	2	2	2	1	1	1	1	2	2	1	1
CO3	1	2	2	2	2	1	1	2	2	2	1	1
CO4	2	1	1	-	-	-	1	1	1	2	-	1
W/AVG	1.75	1.75	1.5	2	1.5	2	1	1.25	1.25	2.25	1	1

I SEMESTER
OPEN ELECTIVE   1

Course Code: 21OECOM101	**Course Title: Basics of Accounting**
Course Credits: 3. (L:T:P): 3:0:0	**Teaching Hours/Week: 03 Hours**
Total Contact Hours: 42 Hours	**Formative Assessment Marks: 40**
Exam Duration: 2 1/2 Hours	**Semester End Examination Marks: 60**

Course Objective:

To enable the students to understand the basics of accounting, need for accounting in business and the system of preparing financial statements - to create an awareness in the students about Financial Reporting Standards

CourseOutcome:
 CO1-Gain the knowledge of the Accounting Concepts and Conventions adopted in
    preparation of Financial Statements
 CO2-Identify business transactions and record it in Journal entries
 CO3-Preparation of subsidiary books.
 CO4-Analyze and prepare financial statements of sole trading concern.

UNIT – I. Introduction to Accounting: (08 Hours)
Meaning – Need for accounting – Internal and External users of Accounting – Accounting Concepts and Conventions – Indian Accounting Standards (IND AS) – International Financial Reporting Standards (IFRS) Distinction between IND AS and IFRS.

UNIT – II – Accounting Systems and Process: (11 Hours)
Nature of accounting – Systems of accounting: Single entry and Double entry – Process of accounting – Business transactions – Journal entries - Ledger (simple problems)

UNIT – III Subsidiary Books: (17 Hours)
Sales book – Sales returns book – Purchases book – Purchase returns book – Bills Receivable book – Bills Payable book – Cash book – Petty Cash book – Journalproper – Problems on preparation of Sales book, Sales returns book, Purchases book, Purchase returns book, Cash book (single column, double column, three column) and Petty Cash book (simple problems)

UNIT – IV. Final Accounts of Sole Trading Concern: (12 Hours)
Preparation of Trial Balance – Preparationof Trading and Profit and Loss account and Balance sheet (simple problems)

SKILL DEVELOPMENT
1. Collect the final accounts of a Sole Trading concern.
2. Prepare Subsidiary books with imaginary figures.
3. Collect Cash book prepared by Sole Trading Concern.
4. Identify the businesses where Single entry and Double entry systems of Book-keeping arefollowed.

Books for Reference:

1. Accounting Principles; Anthony, R.N. and Reece, J.S.: Richard Irwin Inc.
2. Financial Accounting; Gupta, R.L and Radhaswamy, M: Sultan Chand and Sons,
3. Accountancy; B.S.Raman, United Publishers, Mangalore.
4. Advanced Accounts; Shukla. M.C., Grewal T.S., and Gupta, S.C.: S. Chand & Co.
5. Compendium of Statement and Standards of Accounting: The Institute of Chartered Accountants of India, New Delhi.

Web Links:

https://www.geeksforgeeks.org/introduction-to-accounting/
www.tutorialspoint.com/accounting_basics/accounting_process.htm

Course Articulation Matrix – 21OECOM101

Course/Program Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1	-	-	-	1	-	1	-	1	-	1
CO2	2	1	1	-	1	-	-	1	-	1	-	1
CO3	2	1	1	1	-	-	-	1	1	1	1	1
CO4	2	1	-	-	-	1	1	1	-	1	1	1
W/AVG	**2**	**1**	**1**	1	**1**	**1**	1	**1**	1	**1**	1	**1**

I SEMESTER
OPEN ELECTIVE 1

Course Code: 21OECOM102	Course Title: Managing Workforce
Course Credits: 3. (L:T:P): 3:0:0	Teaching Hours/Week: 03 Hours
Total Contact Hours: 42 Hours	Formative Assessment Marks: 40
Exam Duration: 2 1/2 Hours	Semester End Examination Marks: 60

CourseObjective:

To enable the students to understand the basics of managing workforce at work place and know the process of selection, training and development.

CourseOutcome:

CO1-Managing themselves at work place.

CO2-Skill of handling the employees.

CO3-Focus on developing training activities.

CO4-Knowledge of rewarding the employees.

UNIT – I Introduction: (10 Hours)

Concepts of human resource management- Meaning - Objectives-Scope and functions**.**

UNIT – II Human Resources Planning and Procurement: (14 Hours)

Human resource planning - importance- objectives and problems. Recruitment-meaning - recruitment policy - sources – factors affecting recruitment - selection decision - selection procedure.

UNIT - III Human Resource development: (12 Hours)

Meaning-concepts of HRD-objectives of training- organization of training programmers – methods of training – advantages and limitations of training.

UNIT - IV Compensation: (12 Hours)

Meaning - Factors determining employee compensation and rewards - dearness allowance - employee benefits-bonus and social security - managerial compensation. Performance Appraisal: concepts - objectives – Types

SKILL DEVELOPMENT

1. Collect information regarding the recruitment and selection process adopted by any one of the Companies/organisations located in your District.
2. Visit and collect the training method adopted by a company.
3. Visit and collect the methods of compensation adopted by any company.
4. Identify the methods of Performance appraisal adopted by any company.

Books for Reference:

1. Human Resource Management- P.Subba Rao
2. Human Resource Management -Dr.Ashwathappa
3. Personnel and Human Resource Management -D.A. Deonz and F.P. Robins
4. Human Resource Management – Prasanna Chandra.

Web Links:

https://www.whatishumanresource.com/human-resource-development
https://scm.ncsu.edu/scm-articles/article/what-are-differences-in-procurement-contract-management-and-supply-chain-management

Course Articulation Matrix – 21OECOM102

Course/Program Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1	-	-	-	1	-	1	-	1	-	1
CO2	2	1	1	-	1	-	-	1	-	1	-	1
CO3	2	1	1	1	-	-	1	1	1	1	1	1
CO4	2	1	-	1	-	1	-	1	-	1	1	1
W/AVG	**2**	**1**	**1**	1	**1**	**1**	1	**1**	1	**1**	1	**1**

II SEMESTER
DISCIPLINE SPECIFIC COURSE (DSC) 4

Course Code: 213229	Course Title: FINANCIAL ACCOUNTING – II
Course Credits: 4. (L:T:P): 4:0:0	Teaching Hours/Week: 04 Hours
Total Contact Hours: 64 Hours	Formative Assessment Marks: 40
Exam Duration: 2 1/2 Hours	Semester End Examination Marks: 60

CourseObjective:
To enable the students to understand the maintaining of accounts for various types of business firms including non- profit organizations.

CourseOutcome:
CO1-Acquire the knowledge of transaction of Branch Accounts and Departmental Accounts.
CO2-Know about Consignment Process and Transactions
CO3-Kowledge about the Concepts of Fire Insurance and Claims
CO4-Preparation of the final accounts and loss of stock of business firms.

UNIT – I Branch Accounts: (15 Hours)
Meaning – Objectives – Types of Branches – Dependent Branches – Features – Goods Sent to branch at Cost price and Invoice price – Preparation of Branch account and other relevant ledger accounts in the books of Head Office (Debtors system only)

UNIT – II Departmental Accounts: (10 Hours)
Meaning – Objectives – Basis of apportionment of expenses and incomes – Preparation of Trading and Profit and loss account in columnar method and Common Balance sheet (Sole trading concerns only)

UNIT – III Consignment Accounts: (14 Hours)
Meaning – Consignor – Consignee – Goods consigned at Cost price and Invoice price – Commission – Types of Commission - Abnormal loss – Valuation of Stock – creation of stock reserve account – Problems on Consignment both Cost price and Invoice price.

UNIT – IV Fire Insurance Claims: (10 Hours)
Meaning of fire insurance – need – Loss of stock by fire – steps involved in the computation of fire claims – Average clause – Treatment of abnormal line goods – Problems on computation of fire insurance claims including average clause and abnormal line of goods.

UNIT – V Final accounts of Non-Profit Organisations: (15 Hours)
Meaning of Non-profit organisations – objectives – need – capital receipts and capital expenditure - revenue receipts and revenue expenditure – treatment of special items – Problems on preparation of Income and Expenditure account and Balance sheet from Receipts and Payments account.

SKILL DEVELOPMENT

1. Preparation of account sales with imaginary figures.
2. Calculation of fire insurance claims with imaginary figures.
3. Collection of final accounts of a Non-Profit Organisation and identifying Capital and revenue items
4. Visit any branch and collect the financial statements of the branch.
5. Preparation of Departmental Trading and Profit/Loss account with imaginary figures.

Books for Reference:

1. Accounting Principles; Anthony, R.N. and Reece, J.S.: Richard Irwin Inc.
2. Financial Accounting; Gupta, R.L and Radhaswamy, M: Sultan Chand and Sons.
3. Financial Accounting; Prof B.H Suresh and Dr. G.H Mahadevaswamy
4. Compendium of Statement and Standards of Accounting: The Institute of Chartered Accountants of India, New Delhi.
5. Financial Accounts, Mishra A.K.: Sahitya Bhawan Publishers and Distributors.

Web Links:

https://www.udemy.com
https://www.accountingtools.com

Course Articulation Matrix – 213229

Course/Program Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1	-	-	-	1	-	1	-	1	-	1
CO2	2	1	1	1	-	-	1	2	-	1	-	1
CO3	2	1	1	-	1	1	2	1	-	2	-	1
CO4	2	2	1	-	-	1	1	2	1	2	1	1
W/AVG	2	1.25	1	1	1	1	1.3	1.5	1	1.5	1	1

II SEMESTER
DISCIPLINE SPECIFIC COURSE (DSC) 5

Course Code: 213230	Course Title: Company Law
Course Credits: 4. (L:T:P): 4:0:0	Teaching Hours/Week: 04 Hours
Total Contact Hours: 64 Hours	Formative Assessment Marks: 40
Exam Duration: 2 1/2 Hours	Semester End Examination Marks: 60

Course Objective:
To enable the students to understand the types of companies incorporated in India and the promoters involved in forming a company and Company administration till its Liquidation.

Course Outcomes
CO1-Knowledge about Frame work of Companies Act of 2013.
CO2- Identify the stages of formation and documents involved .
CO3- Role of Managerial Personnel and procedure of conducting company meetings.
CO4- Consequences of liquidation, and to know the Duties and responsibilities of
        Liquidator.

UNIT – I Introduction to Company: (13 Hours)
Meaning and Definition – Features of Companies Act of 2013 – Types of Companies –Private Company - Public Company - Company Limited by Shares – Company Limited by Guarantee – Unlimited Companies – One Person Company – Holding and Subsidiary Companies – Government Company - Associate Company.

UNIT – II Formation of Companies: (15 Hours)
Introduction – Steps involved in formation of a company – Position and Functions of Promoters – Meaning and contents of Prospectus, Memorandum of Association and Articles of Association – Alteration of MOA and AOA - Certificate of Commencement of Business – Formation of Global Companies – Features – Legal formalities.

UNIT – III Company Administration: (15 Hours)
Managerial Personnel – Managing director appointment, powers, duties and responsibilities – Whole time Director – Independent Director – Auditor's appointment: Qualification, duties and responsibilities – Company Secretary: Qualifications, Appointment, Rights, Duties, Liabilities and Removal.

UNIT – IV Company Meetings: (12 Hours)
Meaning – Types of company meetings – Importance ––Requisites of a valid meeting – Notice – Quorum – Resolutions – Voting - Proxy – Role of a Company Secretary in convening the meetings.

UNIT – V Liquidation of Companies: (09 Hours)
Meaning, Modes of Liquidation, Consequence of Liquidation, Appointment of Official Liquidator, Duties and Responsibilities of Liquidator.

SKILL DEVELOPMENT:
1. Collect the Prospectus, Memorandum of Association and Articles of Association of a Company.
2. Collect a notice of a meeting from any company.
3. List the names of Directors and Managing Director of any five companies.
4. List the names of full time company secretaries in India.
5. Name any five companies liquidated during last 2 years in India.

Books for Reference:
1. Company Law and Secretarial Practice by N.D. Kapoor, Sultan Chand and Sons
2. Company Law and Secretarial Practice by S.C. Kuchal
3. Elements of Corporate Law by S.N.Maheshwari, Himalaya Publication House
4. Corporate Administration by K.Venkataramana, SHBP
5. Business Law for Management by Balachandran, Himalaya Publishing House.

Web Links:

https://www.takshilalearning.com/introduction-company-under-the-companies-act-2013/
https://www.bmscw.edu.in/files/StudyMaterials/BCom/I-BCom/CSA%20UNIT%201.pdf

Course Articulation Matrix – 213230

Course/Program Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1	-	-	-	1	1	2	2	1	-	1
CO2	2	1	-	1	1	1	1	2	-	1	-	1
CO3	2	2	1	1	1	1	1	2	1	2	1	1
CO4	2	2	1	1	1	1	1	1	-	1	-	1
W/AVG	2	1.5	1	1	1	1	1	1.75	1.5	1.25	1	1

II SEMESTER
DISCIPLINE SPECIFIC COURSE (DSC) 6

Course Code: 213231	**Course Title: Law and Practice of Banking**
Course Credits: 4. (L:T:P): 4:0:0	**Teaching Hours/Week: 04 Hours**
Total Contact Hours: 64 Hours	**Formative Assessment Marks: 40**
Exam Duration: 2 1/2 Hours	**Semester End Examination Marks: 60**

CourseObjective: To enable students to acquire specialized knowledge of law and practice relating to Banking.

CourseOutcome:
CO1-Conceptualise the frame work of Banking, classification of Banking, banker
   and customer relationship and E-Banking services.
CO2- Knowledge of RBI functions and measures of credit Control.
CO3- Factors contributing to NPA's and remedies available to reduce NPA's
CO4-Know the Banker and Customer relationship and E-banking Services.

UNIT – I Introduction to Banking: **(16 Hours)**
Origin and Evolution of banks - Meaning and definition of banking - Classification of Banks – Commercial Bank, Investment/Industrial Bank- Co-operative Bank - Land Development Bank - Exchange Bank - Central Bank -Saving Bank. Banking system – Branch Banking, Unit Banking, Group Banking, Chain Banking, Mixed Banking, Narrow Banking, Universal Banking and offshore Banking

UNIT – II Reserve Bank of India: (12 Hours)
Constitution – Nationalisation – Management of RBI – organisation restructuring – Main functions of RBI – Measures of Credit control. RBI and Agricultural credit – RBI and Industrial Finance. Demonetisation and its impact.

UNIT – III Banking Regulation Act, 1949: **(14 Hours)**
Origin of the Act - objectives and features. Banking sector reforms - Narasimhan Committee Report I and II – Prudential norms: Capital Adequacy norms. NPA: – Meaning - factors - remedies available- recent measures.

UNIT – IV Banker and Customer: **(12 Hours)**
Banker - Customer – the relationship between a banker and a customer: general relationship and special relationship. Cheque: – statutory obligation to honour cheques- bankers lien- A bankers duty to maintain secrecy of customer's account-right to claim incidental charges- right to charge compound interest.

UNIT – V E –Banking: **(10 Hours)**
Meaning - traditional banking v/s E- banking- Electronic delivery channels- facets of E –banking- E-banking transactions – Truncated cheque and Electronic Cheque– Mobile Banking – Inter Bank Mobile Payment Service (IMPS) – Virtual Currency – Models for E-banking – Advantages of E-Banking – Constraints in E-Banking – Security Measures – Real Time Gross Settlement (RTGS) – National Electronic Fund Transfer (NEFT).

SKILL DEVELOPMENT
1. Identify the Commercial Banks in your area
2. List out the Investment Banks in your District
3. Visit a Bank and list out the steps followed to avail E-Banking facility
4. Visit a Bank and prepare a report with respect to NPA
5. Identify the beneficiaries of MUDRA Scheme in your locality

Books for Reference:
1. Banking Theory, Law and Practice **-** E.Gordan and K.Natarajan
2. Money, Banking, International Trade and Public Finance – M L Jhingan
3. Indian Financial System - Vasanth Desai
4. Marketing of Financial Services - V.A. Avadhani
5. Indian Financial System - Varshenoy and Mittal
6. The Law and Practice of Banking – J M Holden

Web Links:
https://www.technofunc.com/index.php/domain-knowledge/banking-domain/item/what-is-a-bank
https://rbi.org.in/history/Brief_History.html

Course Articulation Matrix – 213231

Course/Program Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	1	-	2	2	1	1	-	2	-	1
CO2	2	1	-	-	1	1	-	1	-	1	1	1
CO3	2	2	2	1	1	1	-	1	1	1	1	
CO4	2	1	-	-	-	1	-	1	1	2	-	1
W/AVG	**2**	**1.5**	**1.5**	**1**	**1.3**	**1.25**	**1**	**1**	1	**1.5**	1	**1**

II SEMESTER
OPEN ELECTIVE 2

Course Code: 21OECOM201	Course Title: Financial Literacy
Course Credits: 3. (L:T:P): 3:0:0	Teaching Hours/Week: 03 Hours
Total Contact Hours: 42 Hours	Formative Assessment Marks: 40
Exam Duration: 2 1/2 Hours	Semester End Examination Marks: 60

CourseObjective:
> To create awareness in student about the need for possessing financial literacy education.

CourseOutcomes:
CO1- Knowledge of finance by preparing financial plans and budgets.
CO2- Benefit of knowing NBFI
CO3- Update with advanced technology of banking services.
CO4- Describe the importance of insurance services as social securitymeasures.

UNIT – I Introduction: (16 Hours)
Financial Literacy- Meaning and Importance - Components of Financial Literacy- Financial Institutions : Meaning, Banking and Non Banking Financial Institutions, Post offices . Investment: Meaning, Difference between Investment Vs Gambling- Risk and Return **-** Principles of investment - Investment Avenues –Financial Planning and Budgets , Family Budget, Business Budget and National Budget. Budget deficit and Surplus.

UNIT – II Banking: (12 Hours)
Meaning and Types of Banks, Various services offered by banks, types of bank deposit accounts, Formalities to open various types of bank accounts, KYC norms. Various types of Loans: Short-term, Medium term and Long term loans. Cashless banking, e-banking,ATM, Debit and Credit cards, banking Complaints.

UNIT – III Financial Services from Post Office: (09 Hours)
Post office Savings Schemes: Savings account - Recurring deposit -Term Deposit - Monthly Income Scheme - Kissan Vikas Pathra – NSC – PPF - Senior Citizen Savings Scheme - Sukanya Samriddhi Yojana/Account - Indian Post Payments Bank-Money Transfer - Money Order.

UNIT – IV Insurance Services: (11 Hours)
Life Insurance **–** Life Insurance Policies - Term Insurance and Endowment Policies - Pension Policies - Health Insurance Plans – ULIP - Property Insurance - General Insurance - Types, Postal Life Insurance Schemes- Housing Loans - Institutions providing Housing Loans, Pradhanmantri Awas Yojana: Rural and Urban.

SKILL DEVELOPMENT

1. Visit a nationalized bank near your area and collect information regarding services offered by the bank.
2. Visit a post office in your area and collect information about various deposit schemes available.
3. Collect an account opening form from a nationalized bank and fill up the form with necessary enclosures. Collect an account opening form from a post office and fill the form.
4. Prepare an annual family budget considering the income of your family. Also prepare a personal budget for six months.
5. Visit a LIC branch in your area and collect information regarding any five insurance policy

Books for Reference:

1. Avadhani, V A (2019), Investment Management , Mumbai: Himalaya Publishing House Pvt Ltd
2. Chandra, P (2012), Investment Game: How to Win . New Delhi: Tata McGraw Hill Education.
3. Kothari , R (2010), financial Services in India: Concept and application. New Delhi: Sage Publication India Pvt td
4. Milling B. E, (2003), The Basics of Finance: Financial Tools for Non Financial Managers, Indiana : Universe Company.
5. Zokaityte , A (2017), Financial Literacy Education. London: Palgrave Macmillan.

Web links:

https://scripbox.com/pf/what-is-financial-literacy/
https://www.geeksforgeeks.org/banking-and-its-types/

Course Articulation Matrix – 21OECOM201

Course/Program Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1	1	1	1	1	-	1	-	1	-	1
CO2	2	-	-	-	-	1	-	1	-	1	1	1
CO3	2	1	1	1	2	-	1	1	-	1	-	1
CO4	2	1	-	1	1	1	-	1	1	1	1	1
W/AVG	**2**	**1**	**1**	**1**	**1.3**	**1**	1	**1**	1	**1**	1	**1**

II SEMESTER
OPEN ELECTIVE 2

Course Code: 21OECOM202	**Course Title: Retail Management**
Course Credits: 3. (L:T:P): 3:0:0	**Teaching Hours/Week: 03 Hours**
Total Contact Hours: 42 Hours	**Formative Assessment Marks: 40**
Exam Duration: 2 1/2 Hours	**Semester End Examination Marks: 60**

CourseObjective:

To enable students to understand how the retail business functions and highlight the scope ofretail business in India and across the world

CourseOutcome:

CO1- Acquire skills required for managing retail business
C O 2 - Start their own retail business in the future
CO3- Recruiting the human resources
CO4- Updated with modern technology in retailing.

UNIT I Retailing: (12 Hours)

Meaning –Definition - Nature - Importance - Functions of Retailing - Factors influencing retailing - Types of Retailing – Forms of Retail Business ownership, Theory of Retail Development - Wheel of Retailing - Retail Life Cycle - Retail Business in India - Globalization of Retailing - Reasons for globalization - Problems in Globalisation of Retailing .

UNIT II Retail Organisation and Management: (12 Hours)

Introduction - Classification of RetailOrganization. Store Operations: Retail Store Planning - Factors influencing location of a store - Store Layout – Merchandise Management - Category Management - Shelf Management - POS (Point of Sale) /Cash Process.

UNIT III Human Resource Management in Retailing: (09 Hours)

Manpower Planning – Recruitmentin Retail sector - Problems in Retail Recruitment - Retail Training - Retail Managers : Roles – Skill - Employment Opportunities in Retail Industry.

UNIT IV E-Retailing: (15 Hours)

Meaning of E Retailing - Types of Technology in Retailing - Factors Influencing use of IT in Retailing - Electronic Article Surveillance – Electronic Shelf Labels - Effective Management of Online catalogues - Customer Relationship Management: Customer data base - Identifying information - Analysing customer data base and identifying targetcustomers - Customer pyramid - Customer retention.

SKILL DEVELOPMENT:

1. Visit a modern retail store in your area and identify its organization structure
2. Visit a mall and identify the various types of shops in the mall
3. Name any ten e-retailers in the world
4. Visit a super market in your area and collect information about the roles and responsibilities of the manager
5. Name any Ten Global retailers.

Books for Reference:

1. Suja R Nair , Retail Management, V Edition, HPH, Mumbai, 2006
2. Swapna Pradhan , Retailing Management -Text and Cases, II Edition, Tata Mc Graw Hill, India, 2007
3. S. K. Pradhan and Others, Retail Management , VPH.
4. Piyush Kumar Sinha and Dwarika Prasad Uniyal- Managing Retailing, Oxford University Press, Delhi
5. R. S. Tiwari, Retail Management , Himalaya Publishing House.
6. Levy Michael,Weitz Barton - Retailing Management, V Edition, Tata McGraw Hill, New York, 2006
7. Lucas G.H., Bush Robert, Gresham Larry- Retailing, Houghton Mifflin Company, Boston, 1994.

Web links:

https://www.icmrindia.org/courseware/retail%20management/Retail%20Organiz-Manage.htm
https://www.yourarticlelibrary.com/retailing/hrm-objectives-top-4-objectives-of-hrm-inretailing/48316

Course Articulation Matrix – 21OECOM202

Course/Program Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	1	-	-	2	1	1	-	3	-	1
CO2	2	2	2	2	1	1	1	1	2	2	1	1
CO3	1	2	2	2	2	1	1	2	2	2	1	1
CO4	2	1	1	-	-	-	1	1	1	2	-	1
W/AVG	1.75	1.75	1.5	2	1.5	2	1	1.25	1.25	2.25	1	1

Evaluation Pattern

C1- Centrally organized internal test	-	20marks
C2- Skill Development activities	-	20marks
C3- Written examination	-	60marks
Total	-	100marks

Conditions of evaluation:

Evaluation Process of IA Marks shall be as follows:

a) The first component (C1) of assessment is for 20% marks. This shall be based on Internal test. This assessment and score process should be completed after completing 50% of syllabus of the courses and within 45 working days of semester program

b).The second component (C2) of assessment is for 20% marks. This shall be based on Skill Development. This assessment andscore process should be based on completion of remaining 50% of syllabus of the course of the semester.

c). During the 17th – 19th week of the semester, a semester end examination shall be conducted by the college freach course. This forms the third and final component of assessment (C3) and the maximum marks forthe final component will be 60%.

d). In case of a student who has failed to attend the C1 or C2 on a scheduled date, it shall be deemed that the student has dropped the test. However, in case of a student who could not take the test on scheduled date due to genuine reasons, such a candidate may appeal to the Program Coordinator/Principal. The Program Coordinator/Principal in consultation with the concerned teacher shall decide about the genuineness of the case and decide to conduct special test to such candidate on the date fixed by the concerned teacher, but before commencement of the concerned semester end examinations.

e) For assignments, tests, case study analysis etc., of C1 and C2, the students will be provided with answer scripts and Skill development records, graph sheets etc., required for such tests/assignments and these be sealed/signed by the concerned department at the time of conducting tests/assignment /project work etc.

B.Com I /II Semester (NEP)
Question Paper Pattern

Time: 2 1/2 Hours   **Max. Marks: 60**

PART – A

Answer any **FIVE** of the following questions. Each question carries **2 marks**.

(5x2= 10 Marks)

1. ....
2. ....
3. ....
4. ....
5. ....
6. ....
7. ....

PART – B

Answer any **TWO** of the following questions. Each question carries **10 Marks**.

(2x10 =20 Marks)

8. ....
9. ....
10. ....
11. ....

PART – C

Answer any **TWO** of the following questions. Each question carries **15 Marks**
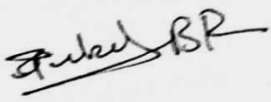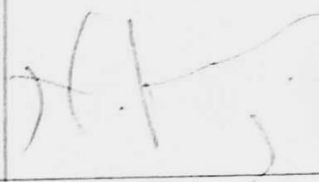
(2x15 =30 Marks)

12. ....
13. ....
14. ....
15. ....

Mahajana Education Society (R)
Education to Excel

SBRR Mahajana First Grade College (Autonomous)

Jayalakshmipuram, Mysuru - 570 012 Karnataka, INDIA
Affiliated to University of Mysore
Re-Accredited by NAAC with 'A' Grade, College with Potential for Excellence

Department of Commerce
Board of Studies Meeting - Attendance

Date: 08-09-2022

Sl.No.	Name and Address	Designation	Signature
1	Capt. B.R. NIKIL Assistant Professor Department of Commerce SBRR Mahajana First Grade College, (Autonomous), Jayalakshmipuram, Mysuru -12	Chairman	
2	Dr. NAGARAJA N Professor DoS in Commerce, University of Mysore, Manasagangothri, Mysuru-570006.	Member	
3	Sri. R. RAJESH Chartered Accountant B S Ravikumar & Associates, Mysuru #73, 2nd Floor, Sri Madhvesha Complex, Nazarbad Main Road, Mysuru-570010.	Member	ONLINE
4	Dr. SRINIVAS K T Associate Professor & Chairman Department of Studies in Commerce, Davangere University, Davangere.	Member	ONLINE
5	Dr. PARAMESHWARA Associate Professor Department of Commerce, Mangalore University, Konaje Mangalore.	Member	ONLINE
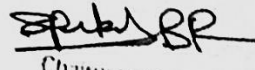
Chairperson
BOS/BOE in Commerce
SBRR Mahajana First Grade College
(Autonomous)
Jayalakshmipuram, Mysuru-570 012

Mahajana Education Society (R)
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Re-Accredited by NAAC with 'A' Grade, College with Potential for Excellence

Department of Commerce
Board of Studies Meeting - Attendance

Date: 08-09-2022

6	**Smt. NANDINI R MUTTUR** Partner Geartech Solutions, Hebbal Industrial Area, Mysuru	Member	ONLINE.
7	**Dr. BHAVANI M** Associate Professor and Head of the Department, SBRR Mahajana First Grade College (Autonomous), PG centre, Mysuru.	Member	Bhawani
8	**Smt. REKHA B** Assistant Professor Department of Commerce SBRR Mahajana First Grade College, (Autonomous), Jayalakshmipuram, Mysuru -12	Member	
9	**Smt. VASAGI S** Assistant Professor Department of Commerce SBRR Mahajana First Grade College, (Autonomous), Jayalakshmipuram, Mysuru -12	Member	
10	**Ms. VAISHALI VENKATAPPA** Assistant Professor Department of Commerce SBRR Mahajana First Grade College, (Autonomous), Jayalakshmipuram, Mysuru -12	Member	

Chairperson
BOS/BOE in Commerce
SBRR Mahajana First Grade College
(Autonomous)
Jayalakshmipuram, Mysuru-570 012

Department of Computer Application

MOTTO:

Technology for Better Future

VISION:

Technology for all

MISSION:

- To enhance students Analytical and Technical skills.

- To Groom them to handle any Industry related Challenges.

- To make them sustainable in the ever-changing Technology.

- To Increase their efficiency in programming language,

  coding and   Application Development.

The objectives of the BCA Program

1. The primary objective of this program is to provide a foundation of computing principles and business practices for effectively using/managing information systems and enterprise software

2. It helps students analyze the requirements for system development and exposes students to business software and information systems

3. This course provides students with options to specialize in legacy application software, system software or mobile applications

4. To produce outstanding IT professionals who can apply the theoretical knowledge into practice in the real world and develop standalone live projects themselves

5. To provide opportunity for the study of modern methods of information processing and its applications.

6. To develop among students the programming techniques and the problem- solving skills through programming

7. To prepare students who wish to go on to further studies in computer science and related subjects.

8. To acquaint students to Work effectively with a range of current, standard, Office Productivity software applications

Program Outcomes:

1. **Domain knowledge:** Acquiring knowledge on basics of Computer Science and ability to apply to design principles in the development of solutions for problems of varying complexity.

2. **Problem Analysis:** Improved reasoning with strong mathematical ability to Identify, formulate and analyze problems related to computer science and exhibiting a sound knowledge on data structures and algorithms.

3. **Design and Development of Solutions:** Ability to design and development of algorithmic solutions to real world problems and acquiring a minimum knowledge on statistics and optimization problems. Establishing excellent skills in applying various design strategies for solving complex problems.

4. **Investigation:** Acquiring sufficient knowledge in computer science and Applications and able to think Independently**.**

5. **Modern Tool Usage:** Identify, select and use a modern scientific and IT tool or technique for modeling, prediction, data analysis and solving problems in the area of Computer Science and making them mobile based application software.

6. **Computer and Society:** An ability to analyze impacts of computing on individuals, organizations, and society.

7. **Environment and sustainability**: Preserving Environment and to define sustainability and identify major sustainability challenges.

8. **Moral and Ethical values:** Exhibiting professional ethics to maintain the integrality in a working environment and also have concern on societal impacts due to computer-based solutions for problems.

9. **Individual and Team work**: Individual contribution and to achieve a common goal.

10. **Communication:** Gaining good communication knowledge both in oral and writing.

11. **Project Management and Finance:** Practicing of existing projects and becoming independently launch own project by identifying a gap in solutions and manage finance efficiently.

12. **Lifelong Learning:** Continuous independent learner.

BCA Programme Structure: 2021-22 onwards

First Year

Course	Code	Title	Hours / Week		Credits	Maximum Marks			Exam Duration (Hours)	Total Marks
						IA		Exam		
			L	T/ P	L:T:P	C1	C2	C3		
		I SEMESTER								
DSC-1	215129	**Fundamentals of Computers**	3	0	3:0:0	20	20	60	2 ½	150
		Information Technology Lab	0	4	0:0:2	10	15	25	2 ½	
DSC-2	215130	**Programming in C**	3	0	3:0:0	20	20	60	2 ½	150
		C Programming Lab	0	4	0:0:2	10	15	25	3	
DSC-3	215131	**Mathematical Foundation/ Accountancy**	3	0	3:0:0	20	20	60	2 ½	100
OE-1	OE210E BCA101	**Business Intelligence**	3	3	3:0:0	20	20	60	2 ½	100
		II SEMESTER								
DSC-4	215229	**Data Structures using C**	3	0	3:0:0	20	20	60	2 1/2	150
		Data Structures Lab	0	4	0:0:2	10	15	25	3	
DSC-5	215230	**Object Oriented Concepts using JAVA**	3	0	3:0:0	20	20	60	2 1/2	150
		JAVA Lab	0	4	0:0:2	10	15	25	3	
DSC-6	215231	**Discrete Mathematical Structures**	3	0	3:0:0	20	20	60	2 1/2	100

Semester: I

Course Code: 215129	**Course Title: Fundamentals Of Computers Information Technology Lab**

Course Credits: 05	**Hours of Teaching/Week:** 03 Theory: 4 Lab
Total Contact Hours: 42 Theory 56 Lab	**Formative Assessment Marks:** 40 Theory 25 Practical
Exam Duration: 2 1/2 Hours 3 Hours	**Semester End Exam Marks:** 60 (Theory) 25 (Lab)

Course Outcomes (COs):

CO1: Imbibe the basics of computers, programming languages and performing tasks on office automation tools.

CO2: Analyze and apply the knowledge of computer hardware and operating system.

CO3: Formulate the practical and conceptual applicability of DBMS concepts and opinions about impact of internet on society while being ethical.

Course Content

Content	Hours
Unit - 1	
Fundamentals of Computers: Introduction to Computers - Computer Definition, Characteristics of Computers, Evolution and History of Computers, Types of Computers, Basic Organization of a Digital Computer; Number Systems – different types, conversion from one number system to another; Computer Codes – BCD, Gray Code, ASCII and Unicode; Boolean Algebra – Boolean Operators with Truth Tables; Types of Software – System Software and Utility Software; Computer Languages - Machine Level, Assembly Level & High Level Languages, Translator Programs – Assembler, Interpreter and Compiler; Planning a Computer Program - Algorithm, Flowchart and Pseudo code with Examples. Characteristics of computers, Classification of Digital Computer Systems: Microcomputers, Minicomputers, Mainframes, Super computers.	14
Unit-2	
Anatomy of Computer: Introduction, Functions & Components of a Computer, Central Processing Unit, Microprocessor, Storage units, Input and output Devices. How CPU and memory works. Program execution with illustrative examples. Introduction to microcontrollers. **Operating System Fundamentals**: Operating Systems: Introduction, Functions of an operating System, Classification of Operating Systems, System programs, Application programs, Utilities, The Unix Operating System, Basic Unix commands, Microkernel Based Operating System, Booting.	14

Unit-3	
Introduction to Database Management Systems: Database, DBMS, Why Database - File system vs DBMS, Database applications, Database users, Introduction to SQL, Data types, Classification of SQL-DDL with constraints, DML, DCL, TCL	
Internet Basics: Introduction, Features of Internet, Internet application, Services of Internet, Logical and physical addresses, Internet Service Providers, Domain Name System.	14
Web Basics: Introduction to web, web browsers, http/https, URL, HTML5, CSS	

Text Books:

1. Pradeep K. Sinha and Priti Sinha: Computer Fundamentals (Sixth Edition), BPB Publication
2. David Riley and Kenny Hunt, Computational thinking for modern solver, Chapman & Hall/CRC,

Reference:

1. J. Glenn Brook shear," Computer Science: An Overview", Addision-Wesley, Twelfth Edition,
2. R.G. Dromey, "How to solve it by Computer", PHI,

Part A: Hardware

1. Identification of the peripherals of a computer, components in a CPU and their functions.

2. Assembling and disassembling the system hardware components of personal computer.

3. Basic Computer Hardware Trouble shooting.

4. LAN and WiFi Basics.

5. Operating System Installation – Windows OS, UNIX/LINUX, Dual Booting.

6. Installation and Uninstallation of Software – Office Tools, Utility Software (like Anti-Virus, System Maintenance tools); Application Software - Like Photo/Image Editors, Audio Recorders/Editors, Video Editors …); Freeware, Shareware, Payware and Trial ware; Internet Browsers, Programming IDEs,

7. System Configuration – BIOS Settings, Registry Editor, MS Config, Task Manager, System Maintenance, Third-party System Maintenance Tools (Similar to CCleaner and Jv16 PowerTools …)

Part B: Software

1. Activities using Word Processor Software

2. Activities using Spreadsheets Software

3. Activities using Presentation Software

4. Activities involving Multimedia Editing (Images, Video, Audio …)

5. Tasks involving Internet Browsing

6. Flow charts: Installation and using of flowgarithms software for different arithmetic tasks like sum, average, product, difference, quotient and remainderof given numbers, calculate area of Shapes (Square, Rectangle, Circle and Triangle), arrays and recursion.

Reference:

1. Computational Thinking for the Modern Problem Solver, By Riley DD, Hunt K.A CRCpress, 2014

2. Ferragina P, Luccio F. Computational Thinking: First Algorithms, Then Code. Springer

Web References:

http://www.flowgorithm.org/documentation/

Course Articulation Matrix-215129

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	3	2	2	2	1	1	2	3	-	3
CO2	2	1	2	1	1	-	1	-	2	1	-	1
CO3	2	1	-	1	1	2	1	1	-	-	1	3
W. A	2.33	1.33	2.5	1.33	1.33	2	1	1	2	2	1	2.33

Course Code: 215130	**Course Title: Programming in C**
	C Programming Lab

Course Credits: 05	**Hours of Teaching/Week:** 03 Theory: 4 Lab
Total Contact Hours: 42 Theory 56 Lab	**Formative Assessment Marks:** 40 Theory 25 Practical
Exam Duration: 2 1/2 Hours 3 Hours	**Semester End Exam Marks:** 60 (Theory) 25 (Lab)

Course Outcomes:

CO1: Acquire Knowledge on basis of C Programming, Input output statements
Operators and Expressions and Design solution using same.

CO2: Design and Implement solution using Control structures, Array and Strings.

CO3: Develop solution for Computational task using Pointer, Functions, Structure and Union.

Course Content

Content	Hours
Unit - 1	
Introduction to C Programming: Overview of C; History and Features of C; Structure of a C Program with Examples; Creating and Executing a C Program; Compilation process in C. **C Programming Basic Concepts:** C Character Set; C tokens - keywords, identifiers, constants, and variables; Data types; Declaration & initialization of variables; Symbolic constants. **Input and output with C:** Formatted I/O functions - *printf* and *scanf,* control stings and escape sequences, output specifications with *printf* functions; Unformatted I/O functions to read and display single character and a string - *getchar, putchar, gets* and *puts* functions. **C Operators & Expressions:** Arithmetic operators; Relational operators; Logical operators; Assignment operators; Increment & Decrement operators; Bitwise operators; Conditional operator; Special operators; Operator Precedence and Associatively; Evaluation of arithmetic expressions; Type conversion.	14

Unit - 2	
Control Structures: Decision making Statements - S*imple if, if_else*, *nested if_else, else_if ladder, Switch Case*, *goto, break* & *continue* statements; Looping Statements - Entry controlled and exit controlled statements, *while, do-while, for* loops, Nested loops. **Arrays:** One Dimensional arrays - Declaration, Initialization and Memory representation; Two Dimensional arrays - Declaration, Initialization and Memory representation. **Strings:** Declaring & Initializing string variables; String handling functions - *strlen, strcmp, strcpy and strcat;* Character handling functions - *toascii, toupper, tolower, isalpha, isnumeric* etc.	14
Unit - 3	
Pointers in C: Understanding pointers - Declaring and initializing pointers, accessing address and value of variables using pointers; Pointers and Arrays; Pointer Arithmetic; Advantages and disadvantages of using pointers; **User Defined Functions:** Need for user defined functions; Format of C user defined functions; Components of user defined functions - return type, name, parameter list, function body, return statement and function call; Categories of user defined functions - With and without parameters and return type. **User defined data types:** Structures - Structure Definition, Advantages of Structure, declaring structure variables, accessing structure members, Structure members initialization, comparing structure variables, Array of Structures; Unions - Union definition; difference between Structures and Unions.	14

Text Books:
1. C: The Complete Reference, By Herbert Schildt.
2. M.T Somashekara, D.S Guru and K.S. Manjunatha: Problem solving with C, PHI publication
3. C Programming Language, By Brain W. Kernighan
4. Kernighan & Ritchie: The C Programming Language (PHI)

Reference Books:
1. P. K. Sinha & Priti Sinha: Computer Fundamentals (BPB)
2. E. Balaguruswamy: Programming in ANSI C (TMH)
3. Kamthane: Programming with ANSI and TURBO C (Pearson Education)
4. V. Rajaraman: Programming in C (PHI – EEE)
5. S. Byron Gottfried: Programming with C (TMH)
6. Yashwant Kanitkar: Let us C
7. P.B. Kottur: Programming in C (Sapna Book House)

Programming Lab

Part A:

1. Program to read radius of a circle and to find area and circumference
1. Program to read three numbers and find the biggest of three
2. Program to demonstrate library functions in math.h
3. Program to check for prime
4. Program to generate n primes
5. Program to read a number, find the sum of the digits, reverse the number and check it for palindrome
6. Program to read numbers from keyboard continuously till the user presses 999 and to find the sum of only positive numbers
7. Program to read percentage of marks and to display appropriate message (Demonstration of else-if ladder)
8. Program to find the roots of quadratic equation (demonstration of switchCase statement)
9. Program to read marks scored by n students and find the average of marks (Demonstration of single dimensional array)
10. Program to remove Duplicate Element in a single dimensional Array
11. Program to perform addition and subtraction of Matrices

Part B:

1. Program to find the length of a string without using built in function
2. Program to demonstrate string functions.
3. Program to demonstrate pointers in C
4. Program to check a number for prime by defining isprime( ) function
5. Program to read, display and to find the trace of a square matrix
6. Program to read, display and add two m x n matrices using functions
7. Program to read, display and multiply two m x n matrices using functions

8. Program to read a string and to find the number of alphabets, digits, vowels, consonants, spaces and special characters.

9. Program to Reverse a String using Pointer

10. Program to Swap Two Numbers using Pointers

11. Program to demonstrate student structure to read & display records of n students.

12. Program to demonstrate the difference between structure & union.

Note: Student has to execute a minimum of 10 programs in each part to complete theLab course

Course Articulation Matrix-215130

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12
CO1	3	2	3	1	2	1	2	2	2	-	-	-
CO2	2	2	3	1	3	2	3	-	2	-	1	1
CO3	2	2	2	2	2	1	-	1	1	2	1	-
W.A	2.33	2	2.66	1.33	2.33	1.33	2.5	1.5	1.66	2	1	1

Course Code: 215131	**Course Title: Mathematical Foundation**
Course Credits: 03	**Hours of Teaching/Week:** 03
Total Contact Hours: 42 Hours	**Formative Assessment Marks:** 40
Exam Duration: 2 ½ Hours	**Exam Marks:** 60

Course Outcomes:

CO1: Develops basic concepts of Mathematical Reasoning, Analyze and convert statements to expressions and vice versa, solve problems related to connectives, predicates and quantifiers, apply laws of logic.

CO2: Basics of Set theory and Matrices, implement operations on Sets, Matrices and Cramer's Rules, problem solving using Venn diagrams.

CO3: Calculate rank of a Matrix, Eigenvalues, Implement Cayley Hamilton Theorem. Acquire knowledge of derivatives and various applications of differentiation

Course Content:

Content	Hours
Unit - 1	
Mathematical logic: Introduction-statements Connectives-negation, conjunction, disjunction- statement formulas and truth tables- conditional and bi Conditional statements- tautology contradiction. Converse, Inverse, Contra-positive, equivalence of formulas-duality law-Predicates and Quantifiers, Arguments.	14
Unit - 2	
Basic concepts of set theory: Sets, power set- Venn diagram, Cartesian product. **Operations on sets** – Union, Intersection, Disjoint, Difference and Complement. Set Identities. **Matrix algebra:** Introduction-Types of matrices-matrix operations-Arithmetic Operations, transpose of a matrix ,determinant of matrix, inverse of a matrix- Cramer'srule	14
Unit - 3	
Matrix: Finding rank of a matrix - normal form-echelon form cayley Hamilton theorem-Eigen values **Differential calculus:** Functions and limits - Simple Differentiation of Algebraic Functions – Evaluation of First and Second Order Derivatives –Maxima and Minima	14

Text Books:

P. R. Vittal-Business Mathematics and Statistics, Margham Publications, Chennai.

Discrete and Combinatorial Mathematics Ralph P. Grimaldi, B. V. Ramatta, Pearson, Education, 5 Edition.

Reference Books:

B. S. Vatsa-Discrete Mathematics –New Age International Limited Publishers, NewDelhi

SBRR Mahajana First Grade College Mysore

Course Articulation Matrix- 215131

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	2	-	-	-	-	-	-	-	-	1
CO2	2	2	2	-	-	-	-	-	-	-	-	1
CO3	2	2	2	-	-	-	-	-	-	-	-	1
WA	**2**	**2.3**	**2**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**1**

Course Code: 215132	**Course Title: Accountancy**
Course Credits: 03	**Hours of Teaching/Week:** 03
Total Contact Hours: 42 Hours	**Formative Assessment Marks:** 40
Exam Duration: 2 1/2 Hours	**Semester End Exam Marks:** 60

Course Outcomes (COs):

CO1: Acquire Conceptual Knowledge of Basics of Accounting.

CO2: Recording of Financial Transactions and preparation of reports.

CO3: Equip with the knowledge of Accounting process and preparation of financial Accounts.

Course Content:

Content	Hours
Unit - 1	
Introduction: History and Development of Accounting, Meaning, Objectives and functions of Accounting, Book keeping V/s Accounting, Users of accounting data, systems of book keeping and accounting, branches of accounting, advantages and limitations of accounting **Accounting Concepts and Convention:** Meaning, need and classification, accounting standards meaning, need and classification of Indian accounting standards. Accounting principles V/s accounting standard	14
Unit - 2	
Financial Accounting Process: Classification of accounting transactions and accounts, rules of debit and credit as per Double Entry System. Journalization and Ledger posting. **Preparation of Different Subsidiary Books:** Purchase Day book Sales DayBook, Purchase Returns Day Book, Sales Returns Day Book, Cash Book. **Bank Reconciliation Statement**: Meaning, Causes of Difference, Advantages, Preparation of Bank Reconciliation Statements.	14
Unit - 3	
Account Procedure: Honor of the Bill, Dishonor of the Bill, Endorsement, Discounting, Renewal, Bill for collection, Retirement of the Bill, Accommodation Bills, Bill Receivable Book and Payable Book. Preparation of Trial Balance: Rectification of errors and Journal Proper **Preparation of Final Accounts:** Meaning, need and classification, Preparationof Manufacturing, Trading, Profit and loss account and Balance – Sheet of sale- traders and partnership firms	14

Text Books:

S. Ramesh, B.S. Chandrashekar, A Text Book of Accountancy.

V.A. Patil and J.S. Korihalli, Book – keeping and accounting, (R Co. Delhi).

R. S. Singhal, Principles of Accountancy, (Nageen Prakash pvt. L

M. B. Kadkol, Book – Keeping and Accountancy, (Renuka Prakas

Vithal, Sharma:Accounting   for Management, Macmillan Mumbai.

Reference Books:

B.S. Raman, Accountancy, (United Publishers, Mangalore).

Tulsian, Accounting and Financial Management – I: Financial Accounting – Person Education**.**

Course Articulation Matrix-215132

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1	-	1	1	1	-	-	-	1	1	1
CO2	2	1	1	1	1	1	-	-	1	1	1	1
CO3	2	1	1	1	1	1	1	1	-	1	-	1
W. A	**2**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**

Semester: II

Course Code: 215229	**Course Title: Discrete Mathematical Structures**
Course Credits: 03	**Hours of Teaching/Week:** 03
Total Contact Hours: 42 Hours	**Formative Assessment Marks:** 40
Exam Duration: 2 1/2 Hours	**Semester End Exam Marks:** 60

Course Outcomes:

CO1: Develops basic concepts of Mathematical Reasoning, Sequences, Permutations and Combinations. Functions. Analyze and convert statements to expressions and vice versa, solve problems related to connectives, predicates and quantifiers. Apply Rules of inference, acquire proof and its strategies. Implement the Pigeon hole Principle.

CO2: Acquire basics of Mathematical Induction, Generating functions. Apply concepts of Recurrence relations, Linear recurrence, Divide and conquer, recursive algorithms.

CO3: Gains knowledge on basics of Relations, representation and its operations. Basics of Graph theory, its terminologies, Calculates shortest path, Euler path, Hamiltonian path.

Course Content

Content	Hours
Unit - 1	
The Foundations: Logic and proofs: Quantifiers and Nested Quantifiers, Rules of Inference, Introduction to Proofs, Proof Methods and Strategy. **Basic Structures**: Sets - Functions, Sequences, and Sums: Functions, types of functions ,composition of functions. Sequences and Summations. **Counting**: Basics of counting, Pigeonhole principle, Permutation and Combination, Binomial Coefficient and Combination, Generating Permutation and Combination**.**	14
Unit - 2	
Advanced Counting Techniques: Applications of Recurrence Relations, Solving Linear Recurrence, Relations, Divide and Conquer Algorithms and Recurrence Relations, Generating functions, Inclusion-Exclusion, Applications of Inclusion-exclusion. **Induction and Recursion**: Mathematical Induction, Strong Induction and Well-Ordering, Recursive Definitions and Structural Induction, Recursive Algorithms, Program Corrections.	14

Unit - 3	
Relation: Properties of relation, Composition of relation, Closer operation on relation, Equivalence relation and partition. Operation on relation, Representingrelation. **Graphs**: Graphs and Graph models, Graph Terminology and Special Types of Graphs, Representing Graphs and Graph Isomorphism, Connectivity, Euler and Hamilton Paths, Shortest-Path Problems, Planar Graphs, Graph Coloring.	14

Text Book:

1. Discrete Mathematics and Its Applications, Kenneth H. Rosen: Seventh Edition, 2012.

References:

2. Discrete Mathematical Structure, Bernard Kolman, Robert C, Busby, Sharon Ross, 2003.

3. Graph Theory with Applications to Engg and Comp. Sci: Narsingh Deo-PHI 1986.

4. Discrete and Combinatorial Mathematics Ralph P. Grimaldi, B. V. Ramatta, Pearson, Education, 5 Edition.

5. Discrete Mathematical Structures, Trembley and Manohar.

Course Articulation Matrix -215232

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	2	1	-	-	1	-	-	-	-	1
CO2	2	2	2	1	-	-	1	-	-	-	-	1
CO3	3	2	2	1	-	-	1	-	-	-	-	1
WA	**2.3**	**2.3**	**2**	**1**	-	-	**1**	-	-	-	-	**1**

| Course Code: 215230 | Course Title: Data Structures using C |
| | **Data Structure Lab** |

| Course Credits: 05 | Hours of Teaching/Week: 03 Theory : 4 Lab |

| Total Contact Hours: 42 Theory | Formative Assessment Marks: 40 Theory |
| 56 Lab | 25 Practical |

| Exam Duration: 2 1/2 Hours | Semester End Exam Marks: 60 (Theory) |
| 3 Hours | 25 (Lab) |

Course Outcomes (CO's):

CO1: Acquire knowledge on different data structures along with their operations. Implement dynamic memory allocation, Recursion and Arrays with illustrations. Design algorithms for specific problems based   on performance.

CO2: Implement different searching and sorting techniques effectively. Design and implement stacks and queues.

CO3: Analyze and implement linked lists and binary trees in real world scenarios.

Course Content

Content	Hours
Unit - 1	
Introduction to data structures: Definition; Types of data structures - Primitive & Non-primitive, Linear and Non-linear; Operations on data structures.	14
Dynamic memory allocation: Static & Dynamic memory allocation; Memory allocation and de-allocation functions - *malloc*, *calloc*, *realloc* and *free.*	
Algorithm Specification, Performance Analysis, Performance Measurement	
Recursion: Definition; Types of recursions; Recursion Technique Examples - GCD, Binomial coefficient $^{n}C_{r}$, Towers of Hanoi; Comparison between iterative and recursive functions.	
Arrays: Basic Concepts – Definition, Declaration, Initialisation, Operations on arrays; Types of arrays; Arrays as abstract data types (ADT); Representation of Linear Arrays in memory.	

Unit - 2	
Traversing linear arrays; Inserting and deleting elements; Sorting – Selection sort, Bubble sort, Quick sort, Selection sort, Insertion sort; Searching - Sequential Search, Binary search; Iterative and Recursive searching; Multidimensional arrays; Representation of multidimensional arrays; Sparse matrices.	14
Stacks: Basic Concepts – Definition and Representation of stacks; Operations on stacks; Applications of stacks; Infix, postfix and prefix notations; Conversion from infix to postfix using stack; Evaluation of postfix expression using stack; Application of stack in function calls.	
Queues: Basic Concepts – Definition and Representation of queues; Types of queues - Simple queues, Circular queues, Double ended queues, Priority queues; Operations on Simple queues.	

Unit - 3	
Linked list: Basic Concepts – Definition and Representation of linked list, Types of linked lists - Singly linked list, Doubly liked list, Header liked list, Circular linked list; Representation of Linked list in Memory	14
Operations on Singly linked lists – Traversing, Searching, Insertion, Deletion; Memory allocation; Garbage collection	
Trees: Definition; Tree terminologies –node, root node, parent node, ancestors of a node, siblings, terminal & non-terminal nodes, degree of a node, level, edge, path, depth;	
Binary tree: Type of binary trees - strict binary tree, complete binary tree, binary search tree and heap tree; Array representation of binary tree. Traversal of binary tree; preorder, inorder and postorder traversal	

Text Books
>   1. Ellis Horowitz and Sartaj Sahni: Fundamentals of Data Structures

References

1. Tanenbaum: Data structures using C (Pearson Education)
2. Kamathane: Introduction to Data structures (Pearson Education)
3. Y. Kanitkar: Data Structures Using C (BPB)
4. Kottur: Data Structure Using C
5. Padma Reddy: Data Structure Using C
6. Sudipa Mukherjee: Data Structures using C – 1000 Problems and Solutions (McGraw Hill Education, 2007))

Programming Lab
Part A:
1. Program to find GCD using recursive function
2. Program to display Pascal Triangle using binomial function
3. Program to generate n Fibonacci numbers using recursive function.
4. Program to implement Towers of Hanoi.
5. Program to implement dynamic array, find smallest and largest element of the array.
6. Program to create two files to store even and odd numbers.
7. Program to create a file to store student records.
8. Program to read the names of cities and arrange them alphabetically.
9. Program to sort the given list using selection sort technique.
10. Program to sort the given list using bubble sort technique.

Part B:
1. Program to sort the given list using insertion sort technique.
2. Program to sort the given list using quick sort technique.
3. Program to sort the given list using merge sort technique.
4. Program to search an element using linear search technique.
5. Program to search an element using recursive binary search technique.
6. Program to implement Stack.
7. Program to convert an infix expression to postfix.
8. Program to implement simple queue.
9. Program to implement linear linked list.
10. Program to display traversal of a tree.

COURSE ARTICULATION MATRIX-215229

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12
CO1	2	2	3	2	2	1	1	1	2	1	2	3
CO2	2	2	3	1	2	1	1	1	2	1	2	3
CO3	2	2	3	1	2	2	1	1	3	1	3	3
W.A	2	2	3	1.33	2	1.33	1	1	2.33	1	2.33	3

Course Code: 215231	**Course Title: Object Oriented concepts using java**

Course Credits: 05	**Hours of Teaching/Week:** 03 Theory : 4 Lab
Total Contact Hours: 42 Theory	**Formative Assessment Marks:** 40 Theory
56 Lab	25 Practical
Exam Duration: 2 1/2 Hours	**Semester End Exam Marks:** 60 (Theory)
3 Hours	25 (Lab)

Course Outcomes:
CO1: Acquire Knowledge on basis of introduction of java, objects and classes and design solution using datatypes and loops in java.
CO2: Design and Implement solution using inheritance, polymorphism and multithreading concepts.
CO3: Develop and design the solution on event handling, GUI programming and input output programming

Course Content

Content	Hours
Unit - 1	
Introduction to Java: Basics of Java programming, Data types, Variables, Operators, Control structures including selection, Looping, Java methods, Overloading, Math class, Arrays in java. **Objects and Classes:** Basics of objects and classes in java, Constructors, Finalizer, Visibility modifiers, Methods and objects, Inbuilt classes like String, Character, String Buffer, File basics and this reference.	14
Unit - 2	
Inheritance and Polymorphism: Inheritance in java, Super and sub class, Overriding, Object class, Polymorphism, Dynamic binding, Generic programming, Casting objects, Instance of operator, Abstract class, Interface in java, Package in java and UTIL package. **Multithreading in java:** Thread life cycle and methods, Runnable interface, Thread synchronization, Exception handling with try catch-finally, Collections in java, Introduction to JavaBeans and Network Programming.	14

Unit - 3	
Event and GUI programming: Event handling in java, Event types, Mouse and key events, GUI Basics, Panels, Frames, Layout Managers: Flow Layout, Border Layout, Grid Layout, GUI components like Buttons, Check Boxes, Radio Buttons, Labels, Text Fields, Text Areas, Combo Boxes, Lists, Scroll Bars, Sliders, Windows, Menus, Dialog Box, Applet and its life cycle, Introduction to swing, Exceptional handling mechanism. **I/O programming:** Text and Binary I/O, Binary I/O classes, Object I/O, Random Access Files.	14

Text Books
1. Programming with Java, By E Balagurusamy – A Primer, Fourth Edition, TataMcGraw Hill Education Private Limited.

2. Core Java Volume I – Fundamentals, By Cay S. Horstmann, Prentice Hall

3. Object Oriented Programming with Java : Somashekara, M.T., Guru, D.S.,Manjunatha, K.S

Reference Books:
1. Java 2 - The Complete Reference – McGraw Hill publication.

2. Java - The Complete Reference, 7th Edition, By Herbert Schildt– McGraw Hillpublication.

Practice list

1. Program to print the following triangle of
   numbers1
   1 2
   1 2 3
   1 2 3 4
   1 2 3 4 5
2. Program to simple java application, to print the message, "Welcome to java"
3. Program to display the month of a year. Months of the year should be held inan array.
4. Program to find the area of rectangle.
5. program to demonstrate a division by zero exception
6. Program to create a user defined exception say Pay Out of Bounds.

Programming Lab

PART A: Java Fundamentals OOPs in Java

1. Program to assign two integer values to X and Y. Using the 'if' statement the output of the program should display a message whether X is greater than Y.
2. Program to list the factorial of the numbers 1 to 10. To calculate the factorial value, use while loop. (Hint Fact of 4 = 4*3*2*1)
3. Program to add two integers and two float numbers. When no arguments are supplied, give a default value to calculate the sum. Use function overloading.
4. Program to perform mathematical operations. Create a class called AddSub with methods to add and subtract. Create another class called MulDiv that extends from AddSub class to use the member data of the super class. MulDiv should have methods to multiply and divide A main function should access the methods and perform the mathematical operations.
5. Program with class variable that is available for all instances of a class. Use static variable declaration. Observe the changes that occur in the object's member variable values.
6. Program
   a. To find the area and circumference of the circle by accepting the radius from the user.
   b. To accept a number and find whether the number is Prime or not
7. Program to create a student class with following attributes;
   Enrollment No: Name, Mark of sub1, Mark of sub2, mark of sub3, Total Marks. Total of the three marks must be calculated only when the student passes in all three subjects. The pass mark for each subject is 50. If a candidate fails in any one of the subjects his total mark must be declared as zero. Using this condition write a constructor for this class. Write separate functions for accepting and displaying student details. In the main method create an array of three student objects and display the details.
8. In a college first year class are having the following attributes Name of the class (BCA, BCom, BSc), Name of the staff No of the students in the class, Array of students in the class
9. Define a class called first year with above attributes and define a suitable constructor. Also write a method called best Student () which process a first-year object and return the student with the highest total mark. In the main method define a first-year object and find the best student of this class
10. Program to define a class called employee with the name and date of appointment. Create ten employee objects as an array and sort them as per their date of appointment. ie, print them as per their seniority.
11. Create a package 'student. Fulltime. BCA 'in your current working directory
    a. Create a default class student in the above package with the following attributes: Name, age, sex.
    b. Have methods for storing as well as displaying

PART B: Exception Handling & GUI Programming

1. Program to catch Negative Array Size Exception. This exception is caused when the array is initialized to negative values.
2. Program to handle Null Pointer Exception and use the "finally" method to display a message to the user.
3. Program which create and displays a message on the window
4. Program to draw several shapes in the created window
5. Program to create an applet and draw grid lines
6. Program which creates a frame with two buttons father and mother. When we click the father button the name of the father, his age and designation must appear. When we click mother similar details of mother also appear.
7. Create a frame which displays your personal details with respect to a button click
8. Create a simple applet which reveals the personal information of yours.
9. Program to move different shapes according to the arrow key pressed.
10. Program to create a window when we press M or m the window displays Good Morning, A or a the window displays Good After Noon E or e the window displays Good Evening, N or n the window displays Good Night
11. Demonstrate the various mouse handling events using suitable example.
12. Program to create menu bar and pull-down menus.

Note: Student has to execute a minimum of 10 programs in each part to complete the Lab course

COURSE ARTICULATION MATRIX-215231

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12
CO1	2	2	3	1	2	2	1	2	3	1	2	1
CO2	2	2	2	1	2	1	1	1	3	1	2	2
CO3	2	2	3	1	2	1	1	1	2	1	1	1
W.A	2	2	2.66	1	2	1.33	1	1.33	2.66	1	1.66	1.66

Course Code: OE210EBCA101   **Course Title: BUSINESS INTELLIGENCE (Open Elective)**

Course Credits: 03 (3:0:0)   **Hours of Teaching/Week:** 03 Theory

Total Contact Hours: 42 Theory   **Formative Assessment Marks:** 40 Theory

Exam Duration: 2 1/2 Hours   **Semester End Exam Marks:** 60 (Theory)

Course Outcomes (COs):
CO1: Develops basic concepts on Business Intelligence, Business Intelligence systems, databases , data warehouses, data analysis, applications of Data Mining, Data Warehouse and Data Marts and knowing Decision support systems.
CO2: Comprehending the basics of OLTP and OLAP and its applications,types of Digital data,its characteristics and its comparison.
CO3: Knowing the uses of Business analytics and Business Intelligence, and its differences, applications of Business Intelligence and Business Analytics, BI Data Processing techniques,Basics of Enterprise Reporting.

Course Content:
Unit 1: BI definitions, concepts and Data Warehouse: 14 Hrs
Definition: Business Intelligence (BI), Data mining, Data analysis, Understanding Business Intelligence (BI), Types of BI Tools and Software systems, Benefits/uses of Business Intelligence, BI Applications, BI Users, BI Features, Top BI Systems, BI roles and responsibilities(Business Analysts).
Definition of Database, Data Warehouse and Data Marts, Need for data Warehouse, Data Warehouse Architecture, Decision support systems (DSS), Data Warehouse vs. Data Marts, Operational database and Data Warehouse, Data-mining Applications (Credit Card Fraud, UI Optimization, Marketing).

Unit 2: Introduction to OLTP and OLAP: 14 Hrs
OLTP (Online Transaction Processing): Definition, Applications, Advantages, Operational Database, Challenges of an OLTP System, OLAP(Online Analytical Processing): Definition, Applications, Characteristics , Advantages of an OLAP System, Difference between OLTP and OLAP.
Digital data, Forms/Types of digital data, Structured data, Unstructured data, Semi-structured data, Characteristics of Unstructured Data, Manage Unstructured Data, Difference between Semi structured and Structured.

Unit 3: Business analytics, Data Processing & Enterprise reporting: 14 Hrs
Introduction to Business analytics, Transformation of raw data to business benefits through BI, BI Benefit - Visibility into Enterprise Performance, Differences between Business Intelligence and Business Analytics.
BI Data Processing, Processing: RFM analysis, Analytical Processing: Drill-up, Drill-down, Slice and Dice.
Basics of Enterprise Reporting: Reporting perspectives common to all levels of Enterprise, Report Standardization and Presentation practices, Report Delivery Formats, Enterprise Reporting characteristics in OLAP World , Balanced Scorecard , Dashboards, Types of Corporate Dashboards, Benefits of Enterprise Dashboard.

Text Books:

1. R.N.Prasad, Seema Acharya , Fundamentals of Business analytics, First Edition , 2011, Wiley-India

Reference Books:

1. Gali Shmueli,. Nitin R Patel , peter C . Bruce, " Data mining for Business Intelligence" Wiley-India, 2011.

2. Ralph Kimball , Margy Ross, "Practical tools for Data Warehosuing and Business Intelligence" , second Edition Wiley-India 2011.

3. "BUSINESS INTELLIGENCE" Edited By Sartaj Singh ,Printed by EXCEL BOOKS PRIVATE LIMITED A-45, Naraina, Phase-I, New Delhi-110028 for Lovely Professional University, Phagwara

Course Articulation Matrix - OE210EBCA101

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	1	2									1
CO2	1	1	2			1						1
CO3	1	1	2	1	1	1	1	1	1	1	1	1
WA	1	1	2	0.3	0.3	0.6	0.3	0.3	0.3	0.3	0.3	1

Evaluation Pattern

Theory Evaluation Scheme for C1, C2 and C3

	Assessment Criteria	Marks	Total
Continuous assessment-1(c1)	Session test	20	
Continuous assessment-2(c2)	Seminar/Presentation/Assignment/Activity/Case Study/Field Work/Project Work/Quiz etc.	20	40
Continuous assessment-3(c3)	Semester End Exam (SEE)	60	60
		Total	100

Evaluation Scheme for Lab Examination

	Assessment Criteria	Marks	Total
Continuous assessment-1(c1)	Test	10	
Continuous assessment-2(c2)	Test and record assessment	15 (10 : 05 marks for record)	25
Continuous assessment-3(c3)	Semester End Exam (SEE)	25	25
		Total	50

Assessment Criteria-c3		Marks
Program – 1 from Part A	Writing the Program and Execution.	10
Program -2 from Part B	Writing the Program and Execution.	10
Viva Voce based		05
Total		**25**

Question Paper Pattern for DSC

Instructions: Answer both part-A and part-B   (Max: 60 Marks)

Part-A
Answer any ten Questions: **(10 X 2=20)**
1
2
3
.
.
.
12
(4 questions to be given from each unit)

Part-B

(Four questions to be given from each unit with internal split if required)
Answer all the Questions: Max: 40 marks

13. a)   **(2*8=16)**
    b)

             OR
    c)
    d)

14. a)   **(2*6=12)**
    b)

             OR
     c)
     d)

15. a)   **(2*6=12)**
    b)

             OR
    c)
    d)

SBRR Mahajana First Grade College Mysore

Question Paper Pattern for Open Elective

Instructions: Answer both part-A and part-B   (Max: 60 Marks)

Duration:2 1/2 Hours

Part-A

Answer any ten Questions: **(10 X 2=20)**

1

2

3

.

.

.

12

(4 questions to be given from each unit)

Part-B

(Two questions to be given from each unit with internal split if required)

Answer any Four Questions: **(10 X 4=40)**

13.

14.

15.

16.

17.

18

Mahajana Education Society (R.)
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SBRR MAHAJANA FIRST GRADE COLLEGE (Autonomous)

Jayalakshmipuram, Mysuru – 570 012
Affiliated to University of Mysore Re-accredited by NAAC with 'A' Grade
College with Potential for Excellence

BOARD OF STUDIES (BoS)

DEPARTMENT OF COMPUTER SCIENCE

UG ✓

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NEP Syllabi for I and II Semester BSc. Computer Science

2021-22

DEPARTMENT OF COMPUTER SCIENCE

Motto

Technology for Transformation

Vision

Information Technology for Better Future

Mission

Imparting Quality and Ethical Based Education all the way through Technology

Equipping the students for a Demanding Career

Empowering the students with Professional Touch to become Successful Entrepreneurs

Program Outcomes (POs) for Bachelor of Science

PO 1: Domain Knowledge - Acquire and apply knowledge of science in relevant areas.

PO 2: Problem Analysis – Recognize real-world problems and user's requirements to propose solutions for the same using basic principles of science.

PO 3: Design and Development of Solutions – Developing solutions and inferences for complex problems using critical and analytical thinking.

PO 4: Investigation & Research – Ability to formulate hypothesis, augment research questions and identify & refer relevant sources for examining or inspecting technical issues as per their level of understanding and knowledge.

PO 5: Use of Modern Techniques/Tools – Use digital resources, various software/platforms and appropriate techniques to interpret concepts of science.

PO 6: Impact of Science on Society – To prepare competent human resource and to develop scientific attitude at local and global levels for social benefit.

PO 7: Environment and Sustainability – Apply the knowledge gained for conserving environment and to handle environmental issues with sustainable solutions.

PO 8: Moral and Ethical Values – Imbibe moral values and professional ethics to maintain the integrality in a professional scenario while being aware of the cultural diversities.

PO 9: Individual and Team Work with Time Management – Work productively in a team or as an individual while exhibiting time management skills.

PO 10: Communication – Develop the caliber to convey various concepts of science effectively.

PO 11: Project Management and Finance – Set up enterprises/companies and build entrepreneurship, project management and finance planning skills.

PO 12: Life-long Learning – Engage in the art of self-directed learning.

Objectives: Computer Science

1. To provide foundation of computing principles for using information systems & enterprise software effectively.

2. Help students in analyzing the requirements for system programming, learn modern methods of information processing and its applications.

3. Provide students with an option to specialize in various domains of computers.

4. To produce outstanding computer scientists, who can apply the theoretical knowledge in solving real-time problems and in developing standalone live projects.

5. To build entrepreneurs by developing among students the programming techniques, software developing skills and problem-solving skills.

6. To prepare students who wish to pursue further studies and career in computer science and related subjects.

List of BoS Members

Sl. No.	Category	Name & Designation	Address for Communication	e-Mail & Mobile No.
1	Chairperson	Smt. Shruthy Poonacha Assistant Professor & HoD	Department of Computer Science SBRR Mahajana First Grade College (A), Jayalakshmipuram, Mysuru - 12	shruthypoonacha.fgc@mahajana.edu.in 9886367273
2	Member	Smt. Radhika Rani Assistant Professor	Department of Computer Science SBRR Mahajana First Grade College (A), Jayalakshmipuram, Mysuru - 12	radhikarani.fgc@mahajana.edu.in 9538737927
3		Smt. Rachana C R Associate Professor	Department of Computer Science SBRR Mahajana First Grade College (A), Jayalakshmipuram, Mysuru - 12	rachanacr@gmail.com 8095645644
4		Sri. Manjunath K S Assistant Professor	Department of BCA SBRR Mahajana First Grade College (A), Jayalakshmipuram, Mysuru - 12	manjunathks.fgc@mahajana.edu.in 9900852285
5	Nominee by the Vice Chancellor	Smt. Hamsaveni L Assosiate Professor	DoS in Computer Science Manasagangotri, University of Mysore, Mysuru – 570006	hamsa1367@gmail.com 9448665767

6	Two Experts from Other University	Sri. Anil Kumar R J Assistant Professor	Department of Computer Science Government Boy's College (Autonomous), Mandya – 571401	anilkumar.rj@gmail.com 9886267773
7		Smt. Vanishree K S Assistant Professor	Department of Computer Science Government First Grade College, Bapuji Nagar, Shivamogga - 577201	vanishree.kss@gmail.com 9448113005
8	One Person from Industry/ Corporate Sector/Allied Area	Dr. Dinesh R Principal Engineer	Samsung Electro Mechanics, WTC, Brigade Gateway Campus, Malleshwaram, Bengaluru - 560055	dr.dineshr@gmail.com 9986678100
9	Alumnus	Sri. Santhosh Kumar Lead Software Engineer	Fidelity Investments Manyatha Tech Park, Hebbal Outer Ring Road, Nagwara, Bengaluru - 560045	santhoshkavempu@gmail.com 9986979735

Course Structure (NEP)

Discipline Specific Courses (DSC), Open Elective (OE) and Skill Enhancement Course (SEC)

I Year

Course Code, Type and Title		Hours/ Week		Credits	Maximum Marks IA		Exam	Exam Duration	Total Marks
		L	T/P	L: T:P	C1	C2	C3		
Computer Science – I Sem									
212149	**DSC(1)** - Computer Fundamentals and Programming in C	4	0	4:0:2 (6 Credits)	20	20	60	$2\frac{1}{2}$ Hours	150
	DSC(1) Lab - C Programming Lab	0	4		10	15	25	3 Hours	
OE(1)	Office Automation **21OECMS101** C Programming Concepts **21OECMS102** **(Any 1 to be opted)**	3	0	3:0:0 (3 Credits)	20	20	60	$2\frac{1}{2}$ Hours	100
Computer Science – II Sem									
212249	**DSC(2)** - Data Structures using C	4	0	4:0:2 (6 Credits)	20	20	60	$2\frac{1}{2}$ Hours	150
	DSC(2) Lab - Data Structures Lab	0	4		10	15	25	3 Hours	
OE(2)	Web Designing **21OECMS201** e-Commerce **21OECMS202** **(Any 1 to be opted)**	3	0	3:0:0 (3 Credits)	20	20	60	$2\frac{1}{2}$ Hours	100
Computer Science – I/II Sem									
SEC(1)	Digital Fluency **21DFLF94**	1	2	1:0:1 (2 Credits)	10	15	25	1 Hour	50

DSC(1) Syllabus for B.Sc. Computer Science (Basic and Honors)

Semester I

Course Code: 212149	**Course Title:** **DSC(1) -** Computer Fundamentals and Programming in C (Theory) **DSC(1) Lab** - C Programming Lab (Practical)
Course Credits (L:T:P): 06 (4:0:2)	**Hours of Teaching/Week:** 04 (Theory) + 04 (Practical)
Total Contact Hours: 56 Hours (Theory) 56 Hours (Practical)	**Formative Assessment Marks:** 40 (Theory) 25 (Practical)
Exam Duration: $2\frac{1}{2}$ Hours (Theory) 3 Hours (Practical)	**Semester End Examination Marks:** 60 (Theory) 25 (Practical)

Course Outcomes (COs):

CO 1: Acquire knowledge on computers and exhibit the potential of designing an algorithmic solution to a problem.

CO 2: Design and develop C programs using various Datatypes, Input Output Statements, Operators and Expressions.

CO 3: Contrivance C programs using Control Structures, 1D Array, 2D Array and String Functions.

CO 4: Develop and implement C Programs using concepts like Pointers, User Defined Functions, Recursion and User Defined Datatypes.

Course Content

Content	Hours
UNIT - 1	
Fundamentals of Computers: Introduction to Computers - Computer Definition, Characteristics of a Computer, Applications of a Computer, Generations of Computers, Types of Computers, Basic Organization of a Digital Computer; Number Systems – Different Types, Conversion From One Number System To Another; Computer Codes – ASCII; Boolean Algebra – AND, OR and NOT with Truth Tables; Types of Software – System Software and Utility Software; Computer Languages - Machine Level, Assembly Level & High Level Languages; Translators – Assembler, Interpreter and Compiler; Steps in Problem Solving, Planning a Computer Program – Algorithm (Features, Writing an Algorithm, Performance) and Flowchart with Examples. Skill Based/ Participative/Experimental Learning – Case Study on Problem Solving Steps & Algorithms.	**14**
UNIT – 2	
Introduction to and Basic Concepts in C Programming: Features of C; Structure of a C Program with Examples, Compilation process in C; C Character Set; C tokens - Keywords, Identifiers, Constants and Variables; Data types; Declaration & Initialization of Variables. **Input and Output Statements:** Formatted I/O Functions - printf() and scanf(), Control Strings and Escape Sequences, Output Specifications with printf(); Unformatted I/O Functions - getchar(), putchar(), gets() and puts(). **C Operators & Expressions:** Arithmetic Operators; Relational Operators; Logical Operators; Assignment Operators; Increment & Decrement Operators; Bitwise Operators; Conditional Operator; Special Operators; Operator Precedence and Associativity; Type Conversion. Skill Based/ Participative/Experimental Learning – Group Assignment.	**14**

UNIT - 3	
Control Structures: Decision Making Statements - simple if, if else, nested if else, else if ladder, switch; break & continue statements; Looping Statements - Entry and Exit Controlled Statements: while, do-while, for and nested loops. **Arrays:** One-Dimensional Array - Declaration, Initialization, Memory Representation and Row & Column Major Addressing; Two-Dimensional Array - Declaration, Initialization and Memory Representation. **Strings:** Declaring & Initializing String Variables; String Handling Functions - strlen, strcmp, strcpy, strcat, strncpy, strncmp and strncat; Character handling functions - toascii, toupper, tolower, isalpha, isnumeric. Skill Based/ Participative/Experimental Learning – Activity to understand various Control Structures.	**14**
UNIT - 4	
Pointers in C: Understanding Pointers - Declaring and Initializing Pointers, Accessing Address and Value of Variables Using Pointers; Pointers and Arrays; Pointer Arithmetic; Advantages and Disadvantages of Using Pointers. **User Defined Functions:** Need; Format; Components - Return Type, Name, Parameter List, Function Body, Return Statement and Function Call; Categories - With and Without Parameters and Return Type; Recursion; Difference between Iterative and Recursive Functions. **User Defined Data Types:** Structures - Definition, Advantages, Declaring Structure Variables, Accessing and Initializing Structure Members, Array and Structures. Unions - Definition; Difference Between Structures and Unions. Skill Based/ Participative/Experimental Learning – Quiz.	**14**

 Text Books:

1. Computer Fundamentals: Anita Goel, Pearson Publication.
2. Problem Solving with C: M T Somashekara, D S Guru and K S Manjunatha, PHI Publication.
3. C in Depth: S K Srivastava and Deepali Srivastava, BPB Publications.

 References:

1. Computer Fundamentals: Pradeep K Sinha and Priti Sinha, 6th Edition, BPB Publication.
2. Programming in C: V Rajaraman, PHI Publication.
3. Programming in C: Ashok N. Kamthane, Pearson Publication.
4. https://www.w3schools.com/c/c_intro.php
5. https://www.tutorialspoint.com/cprogramming/index.htm
6. https://www.youtube.com/watch?v=KJgsSFOSQv0
7. https://www.youtube.com/watch?v=eEo_aacpwCw

C Programming Lab

Part A

Write a C Program to:

1. Read and print different Datatypes.
2. Demonstrate Assignment, Arithmetic and Increment & Decrement Operator.
3. Demonstrate if-else statement.
4. Demonstrate else-if ladder.
5. Demonstrate switch statement.
6. Demonstrate do-while loop.
7. Demonstrate while loop.
8. Demonstrate for loop.
9. Implement Single Dimensional Array.
10. Implement Two Dimensional Array.

Part B

Write a C Program to:

1. Find the length of a string without using built in function.
2. Demonstrate various string built-in functions.
3. Demonstrate the use of pointers.
4. Implement a function without parameters and return type.
5. Implement a function with parameters and without return type.
6. Implement a function without parameters and with return type
7. Implement a function with parameters and return type.
8. Demonstrate the difference between Call by Value and Call by Reference.
9. Demonstrate recursion.
10. Demonstrate the difference between Structure and Union.

Note: Student has to execute all Programs in each part to complete the Lab Course.

Course Articulation Matrix - 212149

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	2	2	-	1	1	1	1	1	1	1	2
CO 2	2	2	2	-	2	-	-	-	2	2	-	2
CO 3	2	2	1	1	2	1	-	1	2	2	-	2
CO 4	2	2	1	-	2	1	-	1	1	1	-	2
Weighted Average	2	2	1.5	1	1.75	1	1	1	1.5	1.5	1	2

OE(1) Computer Science Syllabus for All Programs (Except Science)

Semester I

Course Code: 21OECMS101	**Course Title: OE(1)** - Office Automation
Course Credits (L:T:P): 03 (3:0:0)	**Hours of Teaching/Week:** 3 Hours (Theory)
Total Contact Hours: 42 Hours (Theory)	**Formative Assessment Marks:** 40
Exam Duration: $2\frac{1}{2}$ Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO 1: Acquire knowledge on computers & office automation tools and exhibit the potential to use a word processor for creating various types of documents.

CO 2: Analyze and use spreadsheets for performing computational tasks.

CO 3: Customize and create a presentation on a desired topic.

Course Content

UNIT - 1	14 HOURS

Introduction, Block diagram of a computer, Input and output devices, memory and storage devices, Types of software, Introduction to operating system – functions, types of operating system and examples.

Introduction to word processing – creating and saving a document, formatting a document – Line spacing, paragraph, Fonts, inserting symbols, header and footer, shape, Tables, Find and replace, Mail merge, saving a document in different formats.

UNIT - 2	14 HOURS

Introduction to spread sheet – entering different types of data like text, numbers, date, functions and formulae, different categories of functions, chart - creating and formatting a chart, filter, working with single and multiple work books, cell referencing, printing and previewing a document.

UNIT - 3	14 HOURS

Introduction to presentation tools - creating and viewing a presentation, applying design template, formatting options, inserting different objects in a presentation, customize a presentation, adding audio to a presentation, Slide animation, preview Slide transitions Slide show options, adding effect to presentation.

Text Books:

1. Computer Fundamentals and Office Automation: Dr. R Deepalakshmi, Charulatha Publications.
2. Office Automation: Dr. P Rizwan Ahmed, Margham Publications.

References:

1. Computer Basics with Office Automation: Archana Kumar, Dreamtech Press, 1st Edition.
2. The Handbook of Office Automation: Ralph Tomas Reilly, iUniverse Publication, 1st Edition.
3. https://www.youtube.com/watch?v=eEo_aacpwCw
4. https://www.youtube.com/watch?v=EeiLMV81Ujw
5. https://www.youtube.com/watch?v=Vl0H-qTclOg
6. https://www.youtube.com/watch?v=XF34-Wu6qWU

Course Articulation Matrix – 21OECMS101

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	1	2	2	-	3	-	-	1	1	1	-	2
CO 2	2	2	1	-	3	-	-	-	1	1	1	2
CO 3	3	2	3	-	3	2	1	2	1	2	1	2
Weighted Average	2	2	2	-	3	2	1	1.5	1	1.33	1	2

Course Code: 21OECMS102	Course Title: OE(1) - C Programming Concepts
Course Credits (L:T:P): 03 (3:0:0)	Hours of Teaching/Week: 3 Hours (Theory)
Total Contact Hours: 42 Hours (Theory)	Formative Assessment Marks: 40
Exam Duration: $2\frac{1}{2}$ Hours	Semester End Examination Marks: 60

Course Outcomes (COs):

CO 1: Acquire knowledge on computers and elementary concepts of C programming.
CO 2: Develop C programs with input output statements, operators, expressions and control structure.
CO 3: Implement simple C programs with array, strings and pointers.

Course Content

UNIT - 1	14 HOURS

Fundamentals of Computers: Introduction to Computers -Hardware, software System software, Application software, Utility software, Operating System; Computer Languages - Machine Level, Assembly Level & High-Level Languages, Translator Programs – Assembler, Interpreter and Compiler; Planning a Computer Program – Algorithm and Flowchart with Examples.

Introduction to C Programming: Over View of C; History and Features of C; Structure of a C Program with Examples; Creating and Executing a C Program; Compilation process in C.

C Programming Basic Concepts: C Character Set; C tokens - keywords, identifiers, constants, and variables; Data types; Declaration & initialization of variables; Symbolic constants.

UNIT - 2	14 HOURS

Input and output with C: Formatted I/O functions - printf and scanf, control stings and escape sequences, output specifications with printf functions; Unformatted I/O functions to read and display single character and a string - getchar, putchar, gets and puts functions

C Operators & Expressions: Arithmetic operators; Relational operators; Logical operators; Assignment operators; Increment & Decrement operators; Bitwise operators; Conditional operator; Special operators; Operator Precedence and Associatively; Evaluation of arithmetic expressions; Type conversion.

Control Structures: Decision making Statements - Simple if, if_else, nested if_else, else_if ladder, Switch-case, goto, break & continue statements; Looping Statements - Entry controlled and Exit controlled statements, while, do-while, for loops, Nested loops.

UNIT - 3	14 HOURS

Arrays: One Dimensional arrays - Declaration, Initialization and Memory representation; Two Dimensional arrays - Declaration, Initialization and Memory representation.

Strings: Declaring & Initializing string variables; String handling functions - strlen, strcmp, strcpy and strcat; Character handling functions - toascii, toupper, tolower, isalpha, isnumeric etc.

Basics of Pointers in C: Understanding pointers - Declaring and initializing pointers, accessing address and value of variables using pointers; Pointer Arithmetic; Advantages and disadvantages of using pointers.

Text Books

1. Computer Fundamentals: Anita Goel, Pearson Publication.
2. Problem Solving with C: M T Somashekara, D S Guru and K S Manjunatha, PHI Publication.
3. C in Depth: S K Srivastava and Deepali Srivastava, BPB Publications.

References

1. Computer Fundamentals: Pradeep K Sinha and Priti Sinha, 6th Edition, BPB Publication.
2. Programming in C: V Rajaraman, PHI Publication.
3. Programming in C: Ashok N. Kamthane, Pearson Publication.
4. https://www.youtube.com/watch?v=r5nXIzK3DoE
5. https://www.youtube.com/watch?v=fdSPUKSe_Xk
6. https://www.youtube.com/watch?v=8PopR3x-VMY

Course Articulation Matrix – 21OECMS102

CO/PO	PO 1	PO 2		PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	1		-	-	1	1	1	1	-	1	1	2
CO 2	2	2		1	-	1	-	-	-	-	-	-	2
CO 3	1	2		1	-	1	-	-	-	1	-	-	2
Weighted Average	1.66	1.66		1	-	1	1	1	1	1	1	1	2

DSC(2) Syllabus for B.Sc. Computer Science (Basic and Honors)

Semester II

Course Code: 212249	**Course Title:** **DSC(2) -** Data Structure using C (Theory) **DSC(2) Lab -** Data Structures Lab (Practical)
Course Credits (L:T:P): 06 (4:0:2)	**Hours of Teaching/Week:** 04 (Theory) + 04 (Practical)
Total Contact Hours: 56 Hours (Theory) 56 Hours (Practical)	**Formative Assessment Marks:** 40 (Theory) 25 (Practical)
Exam Duration: $2\frac{1}{2}$ Hours (Theory) 3 Hours (Practical)	**Semester End Examination Marks:** 60 (Theory) 25 (Practical)

Course Outcomes (COs):

CO 1: Relate Data Structures with real life scenarios, design algorithms using array data structure and identify & implement effective searching-sorting algorithm for various applications.

CO 2: Analyze and apply the concept of stack and queues while solving real-time problems.

CO 3: Acquire knowledge on memory allocation & de-allocation methods and apply knowledge of linked list on various applications.

CO 4: Analyze and implement the concept of Binary Trees in real-world scenarios.

Course Content:

Content	Hours
UNIT - 1	
Introduction To Data Structures: Definition; Types - Primitive & Non-Primitive, Linear and Non-Linear; Operations on Data Structures, Abstract Data Type (ADT). **Arrays:** Various Types and their Memory Representation; 1D Array Operations - Traversing Linear Arrays; Sorting – Bubble Sort, Selection Sort, Insertion Sort, Merge Sort, Quick Sort; Searching – Sequential Search, Binary Search; Sparse Matrices – Definition, Advantage. Skill Based/ Participative/Experimental Learning – Activity to understand the various types of Data Structures.	**14**
UNIT - 2	
Stacks: Basic Concepts – Definition, Representation, Operations; Infix and Postfix Notations; Applications of Stack - Conversion from Infix to Postfix, Evaluation of Postfix Expression. **Queues:** Basic Concepts – Definition, Representation, Types of Queues – Simple Queue, Circular Queue, Double Ended Queue, Priority Queue; Operations on Simple Queue. Skill Based/ Participative/Experimental Learning – Class Level Seminar on Stack and Queue.	**14**
UNIT - 3	
Dynamic Memory Allocation: Memory Allocation and De-Allocation Functions – malloc(), calloc(), realloc() and free(); Garbage Collection. **Linked List:** Basic Concepts – Definition, Types of Linked Lists - Singly Linked List, Doubly Linked List, Circular Linked List; Representation of Linked List in Memory; Operations on Singly Linked Lists – Insertion, Deletion. Skill Based/ Participative/Experimental Learning – Quiz.	**13**

UNIT - 4

Trees: Definition; Tree Terminologies – edge, node, root node, parent node, ancestors of a node, siblings, terminal & non-terminal nodes, degree of a node, level, path, depth, height.
Binary Tree: Type of Binary Trees - Strict Binary Tree, Complete Binary Tree, Binary Search Tree; Array and Linked List Representation of Binary Tree; Traversal of Binary Tree - Preorder, Inorder and Postorder Traversal, Reconstruction of a Binary Tree when Inorder and Postorder/Preorder are given.
Skill Based/ Participative/Experimental Learning – Group Assignment/Case Study on Tree Data Structure.

15

Text Books:

1. Fundamentals of Data Structures: Ellis Horowitz, Sartaj Sahani, Computer Science Press.
2. Data Structures through C in Depth: S K Srivastava and Deepali Srivastava, BPB Publications

References:

1. Data Structures using C: Aaron M Tanenbaum, Yedidyah Langsam, Moshe J Augenstein, Pearson Publications.
2. Introduction to Data Structures in C: Ashok N Kamathane, Pearson Publications.
3. Data Structures using C – 1000 Problems and Solutions: Sudipta Mukherjee, Tata McGraw Hill Publications.
4. https://www.aminotes.com/2017/10/data-structures-study-materials.html
5. https://www.tutorialspoint.com/data_structures_algorithms/index.htm
6. https://www.youtube.com/c/SimplyCoding
7. https://www.youtube.com/watch?v=dM-LYxHnKcU

Data Structures Lab

Part A:

Write a C Program to:

1. Demonstrate an Array Data Structure.
2. Search an element using Linear Search Technique.
3. Search an element using Binary Search Technique.
4. Sort the given list using Bubble Sort Technique.
5. Sort the given list using Selection Sort Technique.
6. Sort the given list using Insertion Sort Technique.
7. Sort the given list using Merge Sort Technique.
8. Sort the given list using Quick Sort Technique.

Part B:

Write a C Program to:

1. Demonstrate Stack Operations.
2. Implement Tower of Hanoi.
3. Convert an Infix Expression to Postfix Expression.
4. Demonstrate Operations of a Simple Queue.
5. Demonstrate Operations of a Circular Queue.
6. Demonstrate the use of a Dynamic Array.
7. Demonstrate Operations of a Linear Linked List.
8. Display Traversal of a Tree.

Note: Student has to execute all Programs in each part to complete the Lab Course.

Course Articulation Matrix - 212249

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	2	1	-	2	1	-	-	2	2	-	2
CO 2	3	3	2	-	2	2	-	1	2	2	-	1
CO 3	2	2	1	-	2	1	-	-	1	2	-	1
CO 4	1	3	2	1	2	2	1	1	2	2	1	2
Weighted Average	2	2.5	1.5	1	2	1.5	1	1	1.75	2	1	1.5

OE(2) Computer Science Syllabus for All Programs (Except Science)

Semester II

Course Code: 21OECMS201	**Course Title: OE(2) -** Web Designing
Course Credits (L:T:P): 03 (3:0:0)	**Hours of Teaching/Week:** 3 Hour (Theory)
Total Contact Hours: 42 Hours (Theory)	**Formative Assessment Marks:** 40
Exam Duration: $2\frac{1}{2}$ Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO 1: Acquire basic knowledge on internet, XHTML Programming and CSS.

CO 2: Analyze a web page, identify its elements & attributes and Apply the knowledge gained on JavaScript.

CO 3: Create webpages using CSS and java script (client-side programming).

Course Content

UNIT - 1	14 HOURS

Fundamentals: Internet, WWW, Web Browsers and Web Servers, URLs, MIME, HTTP, Security, the Web Programmers Toolbox. XHTML- Introduction, Basic syntax, Standard Structure of the Program, Basic Text Markup, Images, Grouping Using Div Span, Lists, Hyperlink, Table, Forms, Frames. Introduction to CSS, Levels of style sheets, Style specification formats, Selector forms, Property value forms, Font properties, List properties, Color, Alignment of text, The Box model, Background images, <Span> and <Div> tags.

UNIT - 2	14 HOURS

The Basics of JavaScript: Overview of JavaScript, Object orientation and JavaScript, Object Creation and Modification, Syntactic characteristics, Primitives, operations, and expressions, Screen output and keyboard input, Control statements, Constructors, Pattern Matching, Errors, Arrays, Functions in JavaScript, The JavaScript Execution Environment, The DOM, Element Access, Event Handling.

UNIT - 3	14 HOURS

The DOM 2 Event Model, The Navigator Object, DOM Tree Traversal, Button elements, Text box and Password elements, Dynamic documents with JavaScript: Introduction, Positioning Elements, Moving Elements, Element visibility, Changing Colors and Fonts, Dynamic content, Locating the Mouse cursor, reacting to a Mouse click, Slow movement of elements, Dragging and Dropping elements.
Dynamic Documents with JavaScript - Stacking Elements.

Text Books:

1. Programming the World Wide Web: Robert W Sebesta, 4th Edition, Pearson Education, 2008.
2. HTML, CSS & JavaScript Web Publishing: Laura Lemay, Rafe Colburn and Jennifer Kyrnin, BPB Publications.

References:

1. Internet & World Wide Web How to Program: M Deitel, P J Deitel, A B Goldberg, 4th Edition, Pearson Education, 2004.
2. Web Programming Building Internet Applications: Chris Bates, 3rd Edition, Wiley India, 2007.
3. https://www.geeksforgeeks.org/design-a-web-page-using-html-and-css/
4. https://blog.hubspot.com/marketing/web-design-html-css-javascript

Course Articulation Matrix – 21OECMS201

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	1	1	-	1	1	1	1	1	1	-	2
CO 2	2	1	1	-	1	-	-	-	1	1	-	2
CO 3	1	1	1	-	1	-	-	-	1	1	-	2
Weighted Average	1.66	1	1	-	1	1	1	1	1	1	-	2

Course Code: 21OECMS202	**Course Title: OE(2) -** e-Commerce
Course Credits (L:T:P): 03 (3:0:0)	**Hours of Teaching/Week:** 3 Hour (Theory)
Total Contact Hours: 42 Hours (Theory)	**Formative Assessment Marks:** 40
Exam Duration: $2\frac{1}{2}$ Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO 1: Acquire knowledge on e-commerce and its various modes.

CO 2: Classify and analyze real-time problems based on various types of e-commerce.

CO 3: Interpret the knowledge on e-commerce infrastructure and impact of internet & technology on e-commerce, e-business and e-payments.

Course Content

UNIT - 1	**14 HOURS**

Introduction to e-commerce, the difference between e-commerce and e-business, Technological building blocks underlying e-commerce: the Internet, Web, and Mobile Platform, Major Trends in e-commerce, Unique Features of e-commerce Technology.

Modes of electronic commerce: Overview, Electronic data interchange (EDI), e-commerce with www/Internet. Payments and Security: Electronic cash and Electronic payment Schemes: Internet monetary payment and Security requirements, payment and purchase order process, Online electronic cash.

UNIT - 2	**14 HOURS**

PES of e-commerce: Business-to-Consumer (B2C) , Business-to-Business (B2B) , Consumer-to-Consumer (C2C), Mobile e-commerce (M-commerce), Social e-commerce, Local e-commerce.

Consumer-oriented e-commerce: Introduction, Traditional retailing and e-retailing, benefits of e-retailing, Key success factors, Models of e-retailing, features of e-retailing, developing a consumer-oriented e-commerce system, The PASS model.

UNIT - 3	**14 HOURS**

e-Commerce Infrastructure: The Internet, Technology Background , Internet – Key Technology concepts, TCP/IP, IP addresses, Domain names, DNS and URLs, Client Server Computing, Cloud computing model, Mobile platform.

Internet and Web: Hypertext, HTML, XML, Web servers and clients, Web browsers, Communication tools – Email, messaging apps.

Text Books:

1. E-Commerce 2020-2021: Laudon, Kenneth C and Carol Guercio Traver, Pearson Publications, 2020.

References:

1. Frontiers of Electronic Commerce: Ravi Kalakota, Andrew B, Addison Wesley Publications, 1996.
2. https://www.gasckovilpatti.com/studymaterial/commerce/II%20MCOM%20E%20COMMERCE%20pKCM33.pdf
3. http://www.simplynotes.in/e-notes/mbabba/electronic-commerce/
4. https://onlinecourses.swayam2.ac.in/cec19_cm01/preview

Course Articulation Matrix – 21OECMS202

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	1	-	-	1	2	-	2	1	1	1	2
CO 2	2	1	1	-	-	2	-	2	1	2	1	2
CO 3	1	1	-	-	1	1	1	2	-	1	-	2
Weighted Average	1.66	1	1	-	1	1.66	1	2	1	1.33	1	2

Continuous Formative Evaluation/Internal Assessment (DSC & OE)

Total marks for each course shall be based on continuous assessments and semester end examinations. The pattern is 40:60 for IA and Semester End Theory Examinations respectively and 50:50 for IA and Semester End Practical Examinations respectively.

	THEORY	PRACTICAL
Total Marks	100 Marks	50 Marks
Continuous Assessment – 1 (C1)	20 Marks	10 Marks
Continuous Assessment – 2 (C2)	20 Marks	15 Marks
Semester End Examination (C3)	60 Marks	25 Marks

Evaluation Process of IA Marks shall be as follows:

a) The first component (C1) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, project work etc. This assessment and score process should be completed after completing 50% of syllabus of the course and within 45 working days of semester program.

b) The second component (C2) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, internship/industrial practicum/project work, quiz etc. This assessment and score process should be based on completion of remaining 50% of syllabus of the course of the semester.

c) During the 17th – 19th week of the semester, a semester end examination shall be conducted by the college for each course. This forms the third and final component of assessment (C3) and the maximum marks for the final component will be 60%.

d) In case of a student who has failed to attend the C1 or C2 on a scheduled date, it shall be deemed that the student has dropped the test. However, in case of a student who could not take the test on scheduled date due to genuine reasons, such a candidate may appeal to the principal. The principal in consultation with the concerned teacher shall decide about the genuineness of the case and decide to conduct special test to such candidate on the date fixed by the concerned teacher, but before commencement of the concerned semester end examinations.

e) For assignments, tests, case study analysis etc., of C1 and C2, the students should bring their own answer scripts (A4 size), graph sheets etc., required for such tests/assignments and these be sealed/signed by the concerned department at the time of conducting tests/assignment/project work etc.

f) The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) of a course shall be as under:

	C1 Marks	C2 Marks	Total Marks
Session Test	20	-	20
Seminar/ Presentation/ Assignment/ Activity/ Case Study/ Field Work/ Project Work/ Quiz etc.	-	20	20
Total	**20**	**20**	**40**

- For practical course of full credits, seminar shall not be compulsory. In its place, marks shall be awarded for Practical Record Maintenance (the marks is 25 (10 + 15) and 25. Evaluated for a total of 50 Marks).

- Conduct of Test, Seminar, Case study/Assignment etc., can be either in C1 or in C2 component as decided by the college and concerned department/teacher.

- The teachers concerned shall conduct test/seminar/case study etc., The students should be informed about the modalities well in advance. The evaluated courses assignments during component I (C1) and component II (C2) of assessment are immediately provided to the candidates after obtaining acknowledgement in the register by the concerned teacher(s) and maintained by the Department. Before commencement of the semester end examination, the evaluated test, assignment etc., of C1 and C2 shall be obtained back to maintain them till the announcement of the results of the examination of the concerned semester.

g) The marks of the internal assessment shall be published on the notice board of the department/college for information of the students.

h) The internal assessment marks shall be communicated to the CoE at least 10 days before the commencement of the semester end examinations and the CoE shall have access to the records of such periodical assessments.

i) There shall be no minimum in respect of internal assessment marks.

j) Internal assessment marks may be recorded separately. A candidate who has failed or rejected the result, shall retain the internal assessment marks.

Scheme of Valuation for Practical Examinations

C1 and C2 are internal tests to be conducted during 8th and 16th weeks respectively of the semester. C3 is the semester-end examination conducted for 3 hours. The student will be evaluated on the basis of procedure development and its execution. The student has to compulsorily submit the practical record for evaluation during C2. For C3, the record has to be certified by the Head of the Department.

- The student is evaluated for 25 marks in C1 and C2 as per the following scheme:

    Part-A Program(C1): 10 marks

    Part-B Program(C2): 10 marks + Record: 05 marks = 15 marks

- The student is evaluated for 25 marks in C3 as per the following scheme:

Assessment Criteria		Marks
Program - 1 from Part A Program - 2 from Part B	Writing the Program	10
Execution and Formatting (Any one program: Decided by the External Examiner)		10
Viva Voce		05
TOTAL		**25**

DSC Computer Science Theory Question Paper Pattern

Max. Marks: 60 Marks   **Exam Duration:** $2\frac{1}{2}$ Hours

Instructions: Paper Setting
- The Question Paper is divided into 2 parts: Part - A and Part – B.
- Part – A: Should consist of 12 Questions (3 Questions from each Unit).
- Part – B: Should consist of 4 Main Questions (1 from Each Unit) with 2 Sub Questions where internal split is permitted.

PART – A

Answer any EIGHT Questions. Each Question carries 2 Marks.   **8Q X 2M = 16 Marks**

1. a.
    b
    c.
    .
    .
    k.
    l.

PART – B

Answer ALL the Questions. Each Main carries 11 Marks.   **4Q X 11M = 44 Marks**

2. a.
    b.
            OR
    c.
    d.

3. a.
    b.
            OR
    c.
    d.

4. a.
    b.
            OR
    c.
    d.

5. a.
    b.
            OR
    c.
    d.

OE Computer Science Theory Question Paper Pattern

Max. Marks: 60 Marks   **Exam Duration:** $2\frac{1}{2}$ Hours

Instructions: Paper Setting
- The Question Paper is divided into 2 parts: Part – A and Part – B.
- Part – A: Should consist of 12 Sub Questions (4 Questions from each Unit).
- Part – B: Should consist of 3 Main Questions (1 from Each Unit) with 2 Sub Questions where internal split is permitted.

PART – A

Answer any NINE Questions. Each Question carries 2 Marks.   **9Q X 2M = 18 Marks**

1. a.
   b
   c.
   .
   .
   k.
   l.

PART – B

Answer ALL the Questions. Each Main Carries 14 Marks.   **3Q X 14M = 42 Marks**

2. a.
   b.
        OR
   c.
   d.

3. a.
   b.
        OR
   c.
   d.

4. a.
   b.
        OR
   c.
   d.

SKILL ENHANCEMENT COURSE (SEC) for All Programs

NOTE: This Course will be handled by the Department of Computer Science for BBA, BCom., BSc. (All Combinations) and BA (All Combinations).

Course Code: 21DFLF94	**Course Title:** SEC(1) - Digital Fluency
Course Credits (L:T:P): 02 (1:0:1)	**Hours of Teaching/Week:** 1 Hour (Theory) 2 Hours (Practical)
Total Contact Hours: 14 Hours (Theory) 28 Hours (Practical)	**Formative Assessment Marks:** 25
Exam Duration: 1 Hour (Theory)	**Semester End Examination Marks:** 25

Course Outcomes (COs):

CO 1: Acquire knowledge on key concepts of Artificial Intelligence (AI), Big Data Analytics (BDA), Internet of Things (IoT), Cloud Computing and Cyber Security.

CO 2: Identify the applications of Artificial Intelligence (AI), Big Data Analytics (BDA), Internet of Things (IoT), Cloud Computing and Cyber Security.

CO 3: Develop holistically by learning essential skills such as Effective Communication, Creative Problem Solving, Innovative/Critical Design Thinking and Teamwork.

Course Content: In concurrence with Digital 101 on Nasscom 101 environment

Sl.no	Content	Details of topic	Duration
1.	**Registration**	Future Skills Course Registration Process	
2.	**Module 1: Emerging Technologies**	Overview of Emerging Technologies: i. Artificial Intelligence, Machine Learning, Deep Learning, ii. Database Management for Data Science, Big Data Analytics, iii. Internet of Things (IoT) and Industrial Internet of Things (IIoT) iv. Cloud computing and its service models v. Cyber Security and Types of cyber attack	05 Theory hours and 10 practical hours
3.	**Module 2: Applications of Emerging Technologies**	Applications of emerging technologies: i. Artificial Intelligence ii. Big Data Analytics iii. Internet of Things iv. Cloud Computing v. Cyber Security	05 Theory hours and 10 practical hours
4.	**Module 3: Building Essential Skills Beyond Technology**	Importance of the following: i. Effective Communication Skills ii. Creative Problem Solving & Critical Thinking iii. Collaboration and Teamwork Skills iv. Innovation & Design Thinking v. Use of tools in enhancing skills	05 Theory hours and 10 practical hours

Reference: The learning resources made available for the course titled "Digital 101" on Future Skills Prime Platform of NASSCOM.

Pedagogy:
Flipped classroom pedagogy is recommended for the delivery of this course. For Every Class:
1. Before coming to the class students are expected to go through the content (both video and other resources) on the related topic and give the quiz (related to that topic) on Future Skills Prime Platform of NASSCOM.
2. Class room and practical activities are designed around the topic of the session towards Developing Better Understanding, Clearing Misconceptions and Discussions of Higher Order Thinking Skills like Application, Analysis, Evaluation and Design.

Course Articulation Matrix – 21DFLF94

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	1	1	-	-	2	1	1	1	1	-	-	2
CO 2	1	1	-	-	2	2	2	1	1	1	-	2
CO 3	3	3	2	1	1	3	1	3	3	3	1	2
Weighted Average	1.66	1.66	2	1	1.66	2	1.33	1.66	1.66	1.33	1	2

ASSESSMENT PATTERN FOR DIGITAL FLUENCY (SEC)

Assessment Criteria	Marks
C1: Test	10
C2(A): Practical Sessions: All activities from Module 1, Module 2 and Module 3 need to be completed by the students	05
C2(B): Final Assessment Test with 30 questions (30 min) on Future Skills Prime Platform. Students get maximum two attempts to obtain the certificate from NASSCOM-AICTE.	10
TOTAL	**25**

EVALUATION PATTERN FOR DIGITAL FLUENCY (SEC)

Assessment	Marks
C1	10 Marks (Theory C1-Test)
C2	15 Marks (10 Marks for NASCOM Certificate + 5 Marks for Assignments)
C3	25 Marks (Final Exam)
Total	50 Marks

Evaluation Process of IA Marks shall be as follows:

a) The first component (C1) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, project work etc. This assessment and score process should be completed after completing 50% of syllabus of the course and within 45 working days of semester program.

b) The second component (C2) of assessment is for 30% marks. This shall be based on test, assignment, seminar, case study, field work, internship/industrial practicum/project work, quiz etc. This assessment and score process should be based on completion of remaining 50% of syllabus of the course of the semester.

c) During the 17th – 19th week of the semester, a semester end examination shall be conducted by the college for each course. This forms the third and final component of assessment (C3) and the maximum marks for the final component will be 50%.

d) In case of a student who has failed to attend the C1 or C2 on a scheduled date, it shall be deemed that the student has dropped the test. However, in case of a student who could not take the test on scheduled date due to genuine reasons, such a candidate may appeal to the principal. The principal in consultation with the concerned teacher shall decide about the genuineness of the case and decide to conduct special test to such candidate on the date fixed by the concerned teacher, but before commencement of the concerned semester end examinations.

e) For assignments, tests, case study analysis etc., of C1 and C2, the students should bring their own answer scripts (A4 size), graph sheets etc., required for such tests/assignments and these be sealed/signed by the concerned department at the time of conducting tests/assignment/project work etc.

f) The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) of a course shall be as under:

	C1 Marks	C2 Marks	Total Marks
Session Test	10	-	10
Seminar/ Presentation/ Assignment/ Activity/ Case Study/ Field Work/ Project Work/ Quiz etc.	-	15	15
Total	10	15	25

- Conduct of Test, Seminar, Case study/Assignment etc., can be either in C1 or in C2 component as decided by the college and concerned department/teacher.

- The teachers concerned shall conduct test/seminar/case study etc., The students should be informed about the modalities well in advance. The evaluated courses assignments during component I (C1) and component II (C2) of assessment are immediately provided to the candidates after obtaining acknowledgement in the register by the concerned teacher(s) and maintained by the Department. Before commencement of the semester end examination, the evaluated test, assignment etc., of C1 and C2 shall be obtained back to maintain them till the announcement of the results of the examination of the concerned semester.

g) The marks of the internal assessment shall be published on the notice board of the department/college for information of the students.

h) The internal assessment marks shall be communicated to the CoE at least 10 days before the commencement of the semester end examinations and the CoE shall have access to the records of such periodical assessments.

i) There shall be no minimum in respect of internal assessment marks.

j) Internal assessment marks may be recorded separately. A candidate who has failed or rejected the result, shall retain the internal assessment marks.

Digital Fluency (SEC)
Theory Question Paper Pattern (All Programs)

Max. Marks: 25 Marks   **Exam Duration:** 1 Hour

Instructions: Paper Setting
- The Question Paper consists of 3 Main Questions.
- Question 1: Should consist of 5 Questions (Multiple Choice Questions).
- Question 2: Should consist of 3 Questions (1 from Each Unit) where internal split is permitted.
- Question 3: Should consist of 3 Questions (1 from Each Unit) where internal split is permitted.

1. Answer all FIVE Questions. Each Question carries 1 Mark.   5Q X 1M = 5 Marks

    a.
    b.
    c.
    d.
    e.

2. Answer any TWO Questions. Each Question carries 5 Marks.   2Q X 5M = 10 Marks

    a.
    b.
    c.

3. Answer any ONE Question. Question carries 10 Marks.   1Q X 10M = 10 Marks

    a.
    b.
    c.

APPROVED BY THE FOLLOWING BoS MEMBERS

1.   (Smt. ShruthyPoonacha)
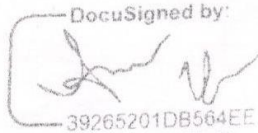
2.   (Smt.Hamsaveni L)

3.   (Smt.VanishreeKS)
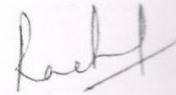
4.   DocuSigned by:
     39265201DB564EE
     (Sri. Anil Kumar R J)
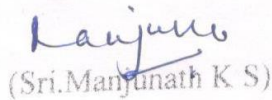
5.   (Dr. Dinesh R)

6.   (Smt.Rachana C R)

7.   (Sri.Manjunath K S)

8.   (Smt. Radhika Rani)

9.   (Sri.SanthoshKumar)

Mahajana Education Society (R.)
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College with Potential for Excellence

BOARD OF STUDIES (BoS)

DEPARTMENT OF CRIMINOLOGY AND FORENSIC SCIENCE

UG ✓

PG

NEP Syllabi for I and II Semester B.A

Criminology and Forensic Science

2021-22

Department of Criminology and Forensic Science

Motto:

Become great and vanquish all enemies

Vision:

To develop youth that are imbibed with moral, ethical, social, & constitutional values.
To also equip students with scientific concepts to vindicate law & combat crime.

Mission:

To impart knowledge based on the scientific principles so as to enable youth to understand crime in all its manifestations;
Device ways and means of controlling crime; and
Reformation and rehabilitation of the offenders by application of the knowledge derived from cognate branches of the study, for the benefit of the society.

Program Outcomes (POs) for Bachelor of Arts

PO1	**Domain Knowledge:** Inculcation of fundamental concepts, principles, methods and the application of the same in the realm of concerned domain.
PO2	**Problem Analysis:** This programme enhances the ability to define, identify and analyze appropriate means towards amicable solutions in the given area of Knowledge.
PO3	**Design & Development of Solutions:** Structuring theoretical knowledge and developing customized designs in terms of – Intervention strategies, Profiling, Reviews, Archives, Marketing strategies, Info-graphics and Approaches for arriving at relevant and desirable solutions.
PO4	**Research & Investigation**: Knowledge and application of "Research Methods" to investigate domain specific problems and derive scientific conclusions through testing of Hypotheses and relevant findings empirically.
PO5	**Usage of Modern Tools and Techniques:** Mastery in the academic enclave through skilled handling administering, assessing, validating and interpreting complex phenomena using advanced tools and techniques to create simple and sustainable solutions.
PO6	**Social Sciences & Society –** Promotes domain specific literacy to illuminate the significance of each discipline and its applicability for the well-being of Society.
PO7	**Environment and Sustainability:** Contemplate and Introspect prevailing environmental challenges and consequences. Further, channelize initiatives towards sustainability.
PO8	**Moral and Ethical Values:** Application of Professional Ethics, Humanitarian Values, Accountability and Social Responsibilities in emerging society towards attainment of harmony and co-existence.
PO9	**Individual and Teamwork:** Imbibe the qualities of Teamwork and function effectively as an emerging leader in the diversified and multidisciplinary areas.
PO10	**Communication:** Demonstrates Competency in comprehending and conceptualizing discipline specific concepts and ideas and communicates effectively through fluid communication within the professional and social setup.
PO11	**Economics and Project Management:** Understand the Economic Concept in the context of specific discipline and apply the same through initiating Planning, and Executing the Project Dynamics effectively towards successful Project Management.
PO12	**Lifelong Learning**: Identify and address their own educational needs in a changing world in ways sufficient to upgrade one's skills and competencies through constant self-evaluation and eternal learning.

Objectives: Criminology and Forensic science

1. Crime is one of the major social problems. It has posed a threat to social organization. To maintain peace, harmony and social order scientific approach to this problem is need of the hour. The problem of crime can be effectively tackled with the help of different agencies of Criminal Justice like Police, Prison, Law, Court and various other agencies. The study pertaining to different agencies of Criminal Justice is scientifically studied at the graduation level in Forensic Science and Criminology.

2. The students are exposed in this course on various aspects of Crime, Criminality, Reformation and Rehabilitation of Criminal, Victim of Crime, Victim Compensation, Victim Assistance and Restorative Justice to the parties concerned Victim of Crime, Criminal Law, Forensic Science, Forensic Medicine and Toxicology and other branches.

3. Objectives of the study of this science are to make the students to understand the process of making laws, breaking of the laws, societal reaction to breaking of the laws and modern crimes. To understand the application of science in the identification and analysis of physical clues found at the Crime Scene, Criminal and Victims.

4. To prepare the students to pursue their career in the State and Central Forensic Science Institutes, Law enforcement agencies and Judiciary. To pursue their career in Social Security and Voluntary Organizations and prevent the occurrence of Crime.

5. It is a professional course with emphasis on development of necessary skills for a Criminological profession in police, forensic science, private security management, private detective work, corrections, and Juvenile Institutions.

List of BoS Members

Sl. No	Category	Name & Designation	Address for Communication	E-Mail & Mobile No.
1	Chairperson	Miss. Megha Krishna Nilajkar Assistant Professor & HoD	Dept of Criminology & forensic science SBRR Mahajana First Grade College (Autonomous), Mysuru.	Meghanilajkar96@gmail.com Mob: 9686403414
2	Member	Dr. Saritha D'souza Reader & Head	Dept of Criminology & forensic science School of Social Work, Roshni Nilaya, Valencia, Mangaluru	sarithavd@sswroshni.in Mob.91-9481014906
3	Two Experts from other University	Prof. Basavaraj D Masthi Associate Professor & Head	Dept of Criminology & forensic science C. M. Managuli First Grade College, Sindagi	bdmasti@gmail.com Mob.91-9449644221
		Shashidhar. E. S Assistant Professor	Dept. of Forensic Science School Of Science. Jain (Deemed to be) University	es.shashidhar@jainuniversity.ac.in Mob. 91-9845673982
4	University Nominee	Dr. G.B. Aravind Associate Professor	Dept. of Forensic Medicine, JSS Academy of Higher Education &Research, Mysore.	profaravind@gmail.com Mob.9886089317
5	One person from industrial Expert	Dr. Krishnaraju K. K. Deputy Director	Regional Forensic Science Laboratory, Mysore	Mob. 91- 9448500080
6	Alumnus	Francis Devasahayam. B Assistant Professor	Department of Criminology and Forensic science St. Philomena's college, Mysuru	francis91b@gmail.com Mob:9035304313

Course Structure (NEP 2020)

Discipline Specific Course (DSC) and Open Elective (OE)

I Year

Course type, code and Title			Hours/week		Credits	Maximum Marks			Exam Duration	Total
			L	T/P	L: T: P	C1	C2	C3		Marks
Criminology & Forensic science - I Sem										
DSC(1)	211172	Fundaments of Criminology.	4	0	4:0:2 (6 credits)	20	20	60	2 ½ hours	150
DSC(1) - Lab		**Lab Practical on**-Fundaments of Criminology.	0	4		10	15	25	3 hours	
OE	21OECRI101	**1.** Police Organization In India.	3	0	3:0:0 (3 credits)	20	20	60	2 ½ hours	100
	21OECRI102	**2.** Elements of Forensic Science.								
	Anyone to be opted									

		Criminology & Forensic science - II Sem								
DSC(2)	211272	Criminalistics.	4	0	4:0:2 (6 credits)	20	20	60	2 ½ hours	150
DSC(2) - Lab		**Lab Practical on**-Criminalistics.	0	4		10	15	25	3 hours	
OE	21OECRI201	**1.** Social Problems and Crime.	3	0	3:0:0 (3 credits)	20	20	60	2 ½ hours	100
	21OECRI202	**2.** Finger Print Science.								
	Anyone to be opted									

DSC (1) Syllabus for B.A Criminology and Forensic Science (Basic and Honors)

Semester I

Course Code : 211172	**Course Title** : DSC (1) Fundaments of Criminology(Theory DSC (1)**Lab-**Fundaments of Criminology
Course Credits :06 (4:0:2)	**Hours of Teaching/ Week :** 04 (Theory) 04 (Practical)
Total Contact Hours : 56 Hours (Theory) 56 Hours (Practical)	**Formative Assessment Mark :**40 (Theory) 25(Practical)
Exam Duration : 2 ½ Hours (Theory) 3 Hours (Practical)	**Semester End Examination Marks :** 60 (Theory) 25 (Practical)

Course Outcomes (CO's):

CO1: Recognize the meaning, applicability, and fundamental ideas of criminology; comprehend   the numerous theories and methods used in the study and practise of the field.

CO2: Identifying the importance of crime and its various forms, including how criminals are classified as white collar, organised, habitual, professional, etc.

CO3: To research the various criminology schools and comprehend criminal behaviour

CO4: Analysis of various crime prevention kinds and concepts, such as police tactics and environmental design, to familiar with the structure and roles of the NCRB, SCRB, and DCRB.

Content of Theory **Course -A1**	**Hours**
Unit–1 Introduction to Criminology	**14**
Chapter-1 Historical Perspective ● Historical perspectives of Criminology ● Nature, origin and scope of Criminology ● Deviance, social context of deviance, delinquency ● Criminology and its relations with other social sciences – Criminology's interdisciplinary nature. **Chapter-2 Concept of Crimes** ● Crime–Etymology. ● Meaning, Definitions and Characteristics. ● Difference between Crime, Sin, Vice and Tort. ● Classification of Crimes.	

Unit–2 Explanations of Crime	14
Chapter-3 Explanation of Crime by Different Schools ● Schools of Criminology: Meaning and its Importance in Explanation of Crime ● Pre-Scientific schools: Demonological and Free Will Thoughts. **Chapter-4 Classical School** ● Classical school, Proponent and their contribution ● Neo-classical school ● Positive School-Biological positivism, profounder(Lombroso, Hooton, Glueck) contribution ● Cartographic school, profounder contribution	
Unit–3 Contemporary explanation of Crime and Criminal Behaviour	14
Chapter-5 Sociology of Crime ● Sociological Explanation ● Differential association, Differential Opportunity and Multi-Factor Approach **Chapter-6 Criminal Profiling** ● Historical perspective and development ● Making of a profile ● Investigative leads **Chapter-7 Other Forms of Crimes & Types Criminals** ● Organized crime, White Collar Crime, Cybercrime and Environmental crime ● Habitual offenders, Professional criminals and Recidivists ● Violent and aggressive offenders, sexual offenders	
Unit–4 Prevention of Crime and Crime Statistics	14
Chapter-8 Concept of Crime Prevention ● Definition of concepts: Primary, secondary and tertiary crime prevention ● Prevention of various types of crime and Methods: Punitive methods, defense methods, intervention method– ● Crime Prevention Through Environmental Design (CPTED)–Crime prevention by police–Crime Prevention Organizations. **Chapter-9 Crime Statistics and Current Trend** ● Crime statistics: Meaning and Its Importance ● National Crime Record Bureau: Reporting crime and Recording crime ● Crime/victim surveys: International crime comparisons, Changing crime patterns and Unreported crime.	

Text Books:

1. Conklin, J. E. (2001). Criminology. New York: Macmillan Publishing Company. Edelston, C. D., & Wicks, R. I. (1977). An introduction to criminal justice. New York: Gregg Division, McGraw-Hill.
2. Hagan, F. (2017). Introduction to Criminology (9th ed.). Los Angeles: SAGE.
Harry E., Friday, P., Roebuck, J., & Edward, S. (1981). Crime and punishment: An introduction to Criminology. New York: Free Press Hughes, G. (2002). Crime prevention and community safety: New directions. London: Sage.
3. Jeffery, C. R. (1977). Crime prevention through environmental design. Beverly Hills, CA: Sage Publications.
4. Lab, S. (2013). Crime prevention (8th ed.). Elsevier.
5. Siegel, L. (2017). Criminology: Theories, Patterns and typologies (13th ed.). Sydney: Cengage Learning.
6. Sutherland, E. H., & Cressey, D. R. (2010)- Principles of Criminology. Philadelphia 10th Edition, PA: Lippincott.
7. Void , G., & Bernard, T. J. (1986). Theoretical Criminology. New York: Oxford University Press.
8. Ram Ahuja (2000) Criminology, Rawat Publications
9. Paranjape N.V (2015) Criminology, Penology and Victimology Sixteenth edition, Central Law Publications
10. Tim Newburn Criminology.
11. Adler, Multer , Laifurrn Criminology

Journals:

CriminologyISSN:1745-9125

International Criminology, springer.

Asian Journal of Criminology, springer.

Digital References:

1. https://onlinelibrary.wiley.com/journal/17459125
2. https://www.longdom.org/scholarly/criminology--journals-articles-ppts-list-3079.html
3. https://scholarlycommons.law.northwestern.edu/jclc/
4. http://www.inquiriesjournal.com/topics/16/criminology-and-criminal-justice
5. https://psycnet.apa.org/record/1958-04359-000
6. https://journals.sagepub.com/doi/abs/10.1177/1362480607075851
7. http://ecite.utas.edu.au/130268
8. https://eprints.qut.edu.au/198603/
9. https://www.jstor.org/stable/1140864
10. https://www.jstor.org/stable/23638473

Content of Lab Practical Courses DSC- 1:

Credits: 02 **Marks: 25+25=50**

List of Experiments to be conducted

1. Analysis of news items of criminological importance from the daily newspapers

2. Collection of crime news clippings

3. Study of crime cases elucidating the criminal behavior of the accused.

4. Analysis of criminal cases to find out which of the theory of criminology explains it.

5. Study of criminal cases where the media has acted as a pressure group.

6. Classification and types of cyber-crimes.

7. Crime statistics analysis - a crime against person and property

8. Study of Graphical Representation of Crime Statistics

9. Kim's Game: Observation, Retention, Memory, and Interpretation.

10. Infographic representation of Crime Statistics From Secondary.

Course Articulation Matrix - 211172

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	2	2	1	-	1	1	1	1	2	2	1	1
CO2	2	2	1	1	1	2	2	1	2	2	1	2
CO3	2	2	2	3	1	1	1	2	1	2	2	2
CO4	1	3	3	3	3	2	2	2	3	3	3	2
Weighted Average	1.75	2.25	1.75	2.33	1.5	1.5	1.5	1.5	2	2.25	1.75	1.75

OE (1) Syllabus for All Programs (Except B A)

Semester I

Course Code: 21OECRI101	**Course Title** : OE (1) Police Organization in India (Theory)
Course Credits : 03 (3:0:0)	**Hours of Teaching/ Week :** 03 (Theory)
Total Contact Hours : 42Hours (Theory)	**Formative Assessment Mark :**40 (Theory)
Exam Duration : 2 ½ Hours (Theory)	**Semester End Examination Marks :** 60 (Theory)

Course outcomes (CO's):

CO1: Recognize the idea behind and goals of the Indian Police Organization, as well as how it has evolved through time to meet societal demands.

CO2: Acquire understanding about the organization, structure, and functions of the police as well as their historical evolution.

CO3: Illustrate the various Police Units at the State and the Center& Learn about the various Auxiliary Units and how they operate.

Content of Theory Course	Hours
Unit-I: Introduction to Police Organization	**14**
Chapter-1 Police Organization: Concept and Brief Historical Background **Chapter-2** Central Police Organization and Institutes: Organizational Basis and types Line Units: Assam Rifles, Central Reserve Police Force, Border Security Force, Indo Tibetan Border Police, Central Industrial Security Force and Seema Suraksha Bal. Staff Units: BPR&D & NCRB. Mixed Units: CBI, RAW and Narcotic Control Bureau – NCB. **Chapter-3** Relationship between Police and Local Government: Magistracy, Executive Magistrates and Other Departments (Forest, Excise, Prison, Health etc.) **Chapter-4** Police Administration: Enforcing law of the land, Maintaining Law and Order, other citizen services, etc.	

Unit-II: State Police and Special Units	14
Chapter-5 General Organizational structure, State Crime Record Bureau, State Finger Print Bureau, State Forensic Science Laboratory and Intelligence Department/Special branch. **Chapter-6** Types of Police station and their Function: Civil, Traffic and Women police stations, cyber-crime police stations. **Chapter-7** Vigilance Units: ACB, Lokayukta and other institutional vigilance (KPTCL, KSRTC, BMTF, BDA, Revenue Task Force)	
Unit-III: Auxiliary Units and Other Organizations	14
Chapter-8 Home guards, Special Police Officers, Students Police Cadets and Civil Defense **Chapter-9** Karnataka State and District Legal Authority and their functions **Chapter-10** State women commission, State SC/ST and Minority Commissions, State Human Rights Commissions.	

Text Books:

1. Banerjee, D, 2005, Central Police Organization, Part I & Part II, Allied Publishers. Pvt. Ltd.,
2. Doval Ajit and Lal BR, 2010, Manas Police Security Year Book 2010-2011, Manas Publications.
3. Earle Howard H. 1970, Police Community relations, Charles C. Thomas Publisher.
4. Ghosh Gautam, 2007 Police Accountability at the Cutting Edge Level, APH Publishing Corporation.
5. Guharoy J T, 1999, Policing in the 21st Century Indian Institute of Public Administration.
6. Gupta, Anandswarup, 2007, Crime and Police in India, Sahitya Bhavan, Agra.
7. James, Vadckumchery, 1998, Crime, Police and Correction, APH Publishing C., New Delhi.
8. Justice Mallimath Committee on Criminal Justice Reforms, Universal Law Pub, 2003.
9. K. Padmanabaiah Committee on Police Reforms, 2001.
10. Ramanjam,T, 1992, Prevention and Detection of Crime, Madras Book Agency.
11. Misra K.K., 1987, Police Administration in Ancient India, K.K. Publications.
12. Mayhill, Parnela D, 1998 Police – Community relations & administration of justice, Prentice Hall Englewood Cliffs.
13. Ramanjam,T, 1992, Prevention and Detection of Crime, Madras Book Agency.
14. Singh SoibamIbocha, 2007 Community Policing, Akansha Publishing House, New Delhi
15. Srivastava Aparna, 1999, Role of Police in Changing Society, APH Publishing House.

16. Karnataka Police Manual, Vol-i, ii and iii.

Journals:

Indian Police Journal published by Bureau of Police Research and Development New Delhi.

Crime in India published by National Crime Record Bureau. MHA Government of India New Delhi

Course Articulation Matrix – 21OECRI101

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	2	1	3	2	3	2	2	3	2	2	2	3
CO2	2	3	3	2	2	2	1	3	2	3	2	1
CO3	2	2	2	3	1	2	2	2	2	2	3	2
Weighted Average	2	2	2.66	2.33	2	2	1.66	2.66	2	2.33	2.33	2

OE (1) Syllabus for All Programs (Except B A)

Semester I

Course Code: 21OECRI102	Course Title : OE(1)Elements of Forensic science (Theory)
Course Credits :03 (3:0:0)	Hours of Teaching/ Week : 03 (Theory)
Total Contact Hours : 42 Hours (Theory)	Formative Assessment Mark :40 (Theory)
Exam Duration : 2 ½ Hours (Theory)	Semester End Examination Marks : 60 (Theory)

Course outcomes (CO's):

CO1: Recognize the meaning, characteristics, applications, and historical background of forensic science.

CO2: Acquire basic knowledge on fundamental components, several branches, and guiding concepts of forensic science.

CO3: What are the central and state forensic science laboratories' responsibilities and significance & describe the functions of the DTI, BPRD, and National Crime Record Bureau.

Content of Theory Course	Hours
Unit-I: Fundamental Concepts of Forensic Science	14
Chapter-1 Definitions, Nature, Scope and role of forensic science. **Chapter-2** Historical development and contribution of pioneers **Chapter-3** Principles of forensic science	
Unit-II: Branches of Forensic Science	14
Chapter-4 Branches of Forensic Science **Chapter-5** Traditional and Contemporary **Chapter-6** Frye Case and Daubert Standards.	
Unit-III: Forensic Science Laboratories and Training institutes	14
Chapter-7 Hierarchical set up of Central Forensic Science Laboratories, State Forensic Science Laboratories and Directorate of Forensic Science. **Chapter-8** Government Examiners of Questioned Documents and Fingerprint Bureaus. **Chapter-9** National Crime Records Bureau, Police & Detective Training Institutes, **Chapter-10** Bureau of Police Research & Development,	

Text Books:

1. B.B. Nanda and R.K. Tiwari, Forensic Science in India: A Vision for the Twenty First Century, Select Publishers, New Delhi (2001).
2. M.K. Bhasin and S. Nath, Role of Forensic Science in the New Millennium, University of Delhi, Delhi (2002).
3. S.H. James and J.J. Nordby, Forensic Science: An Introduction to Scientific and Investigative Techniques, 2nd Edition, CRC Press, Boca Raton (2005).
4. W.G. Eckert and R.K. Wright in Introduction to Forensic Sciences, 2nd Edition, W.G. Eckert (ED.), CRC Press, Boca Raton (1997).
5. R. Safferstein, Criminalistics, 8th Edition, Prentice Hall, New Jersey (2004).

Journals:

Journal of Forensic Research ISSN: 2157-7145
Journal of Forensic Sciences & Criminal Investigation, ISSN: 2476-1311.

Course Articulation Matrix- 21OECRI102

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	3	1	2	3	3	2	2	1	2	1	3	2
CO2	2	3	3	3	3	2	2	1	2	1	2	2
CO3	2	3	2	3	3	2	1	1	3	2	2	2
Weighted Average	2.3	2.3	2.3	3	3	2	1.6	1	2.3	1.3	2.3	2

DSC (2) Syllabus for B.A Criminology and Forensic Science (Basic and Honors)

Semester II:

Course Code : 211272	**Course Title** : DSC (2) Criminalistics (Theory) DSC (2)**Lab**-Criminalistics
Course Credits :06 (4:0:2)	**Hours of Teaching/ Week :** 04 (Theory) 04 (Practical)
Total Contact Hours : 56 Hours (Theory) 56 Hours (Practical)	**Formative Assessment Mark** :40 (Theory) 25(Practical)
Exam Duration : 2 ½ Hours (Theory) 3 Hours (Practical)	**Semester End Examination Marks :** 60 (Theory) 25 (Practical)

Course Outcomes (COs):

CO1: Interpreting meaning, range, and fundamental ideas of criminalistics; demonstrate the many instruments and methods used in the application of the subject.

CO2: Acquire basic knowledge on the importance of evidence and the various categories that physical evidence falls under, such as blood, fibre, paint, firearms, fingerprints, etc.

CO3: Examine the forensic records, the instruments and methods used , the kinds of forgeries, the different kinds of handwriting and its characteristics, etc.

CO4: Elaborating the fundamental concepts and steps in crime scene reconstruction, outline the range and significance of medical evidence, including oral and documentary evidence & the significance of medical-legal autopsies, the kinds of wounds they reveal, etc.

Content of Theory Course	Hours
Unit I: Introduction – Criminalistics	14
Chapter-1 Criminalistics: Meaning, Conceptual definitions and Scope **Chapter-2** Basic principles; Forensic tools and techniques **Chapter-3** Application in Criminal Investigation.	
Unit II: Physical Evidence	14
Chapter-4 Physical Evidence: Significance of evidence and Lockard''s principle **Chapter-5** Types of evidence – Classification of physical clues, evidence: Biological, Chemical and Physical. **Chapter-6** Collection of evidence – Preservation of evidence, chain of custody, blood, fiber, paint, firearms, tyre marks, fingerprints, footprints, bite marks.	
Unit III: Forensic Documents	14
Chapter-7 Forensic Document Examination: Introduction and Types of documents **Chapter-8** Tools and techniques for examination and identification **Chapter-9** Types of forgeries, characteristics and detection **Chapter-10** Types of handwriting and its characteristics.	

Unit IV Crime Scene Management (CSM)	14
Chapter-11 Nature and importance of CSM. **Chapter-12** Basic principles and stages involved. **Chapter-13** Examination of witness and statement of suspect. **Chapter-14** Mobile forensic units, Dog squad and other scientific aids.	

Text Books:

1. Dekal, V. (2014). Exam preparatory manual for undergraduates: Forensic medicine & toxicology (theory &practical). New Delhi: Jaypee Brothers Medical.
2. Gardner, R., & Bevel, T. (2009). Practical crime scene analysis and reconstruction. Boca Raton, FL: CRC Press.
3. Lewis, J. (2014). Forensic document examination. New York: Academic Press. Nagesh kumar, G. (2007). Practical forensic medicine. New Delhi: Jaypee Brothers
4. Nanda, B., & Tewari, R. (2001). Forensic science in India: A vision for the twenty- first century. New Delhi: Select Publishers.
5. Subrahmanyam, B. (2001). Modi‟s medical jurisprudence & toxicology. New Delhi: Butterworth India.
6. Turvey, B., & Crowder, S. (2017). Forensic investigations – an introduction.
7. Academic Press.
8. Young, T., & Ortmeier, P. (2010). Crime scene investigation. Pearson.

Journals:

Indian journal of criminology and criminalistics, ISSN: 0970-4345 International journal of Forensic and Legal Medicine, ISSN: 1752-928X Journal of Forensic Pathology, ISSN: 2684-1312

Digital Reference

1. https://books.google.co.in/books?hl=en&lr=&id=zIRQOssWbaoC&oi=fnd&pg=PA1&dq=forensic+sc ience+research+articles&ots=wJ-Zt0UQ2U&sig=v7wufZJrViWiMCo3YwG8d0sguCc
2. https://link.springer.com/article/10.1007%2Fs10657-005-4196-6#citeas
3. https://www.ojp.gov/ncjrs/virtual-library/abstracts/forensic-science-handbook-volume-2
4. https://books.google.co.in/books?hl=en&lr=&id=cuTnMnlvZMC&oi=fnd&pg=PP1&dq=forensic+scie nce+research+articles&ots=dGYy_obgyD&sig=pRc8BvVP4AOrw5E7vfCfwhoWFR8
5. https://books.google.co.in/books?hl=en&lr=&id=wK9c4KttXj0C&oi=fnd&pg=PP1&dq=forensic+scie nce+research+articles&ots=b3wV8PRtsy&sig=t1DV5xrKLcUCPwYOBSkxYQW8_JI

Semester-II

Content of Lab Practical Course DSC 2;

Credits: 02   Marks: 25+25=50

List of Experiments to be conducted

1. Identification, location and preservation of physical evidence in crimes including, but not restricted to homicide, suicide, robbery & dacoity, and HBT (Burglary).

2. Scene of crime – documentation, searching sketching (rough and neat), photography and Videography, reconstruction.

3. Searching methods of crime scene- Outdoor scene of crime, Indoor scene of crime, Mobile scene of crime

4. Questioned documents: Collection of standards for comparison, characteristics of handwriting.

5. Questioned documents: Comparison of typewritten and printed documents.

6. Identification of forgeries, collection of standards for detection.

7. Handling, Packing &Forwarding of Biological, Physical & Chemical evidence.

Course Articulation Matrix- 211272

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	2	2	2	3	3	2	1	2	2	1	2	3
CO2	2	2	2	3	3	3	2	2	2	2	2	2
CO3	2	3	3	3	3	3	2	2	2	2	3	3
CO4	3	3	3	3	3	2	3	2	3	3	3	3
Weighted Average	2.25	2.5	2.5	3	4	2.5	2	2	2.25	2	2.5	2.75

OE (2) Syllabus for All Programs (Except B A)

Semester II:

Course Code: 21OECRI201	**Course Title** : OE(2) Social Problems & Crime (Theory)
Course Credits :03 (3:0:0)	**Hours of Teaching/ Week :** 03 (Theory
Total Contact Hours : 42 Hours (Theory)	**Formative Assessment Mark** :40 (Theory)
Exam Duration : 2 ½ Hours (Theory)	**Semester End Examination Marks :** 60 (Theory)

Course Outcomes (COs):

CO1: Recognize the various societal issues India faces, as well as the factors that contribute to crime, criminality, and social unrest.

CO2: Describe the many crimes, concerns, and legislation that are relevant to women and children.

CO3: Considering alcoholism and drug abuse associates to communal disturbance and criminality & discuss the consequences of corruption and terrorism on society and the relevant legislation.

Content of Theory Course	Hours
Unit-I: Introduction to Social Problems	**14**
Chapter-1 Social problem and crime: concept, types and stages in the development of social problems. **Chapter-2** Theoretical approaches to social problems, social disorganization, cultural lag, value conflict and personal deviation **Chapter-3** Causes of social problems leading to crime	
Unit-II: Women and Child Related Social Problems and Crimes	**14**
Chapter-4 Child abuse and child labour: Meaning, Causes and effects of child Abuse **Chapter-5** Special Acts - Prohibition of Child Marriage Act 2006, Child labour (Prohibition & Regulation) Act 1986, Immoral Traffic (Prevention) Act 1956 and Protection of Children from Sexual Offences Act, 2012 **Chapter-6** Women Related Issues, Crimes and Laws: Prostitution, Domestic Violence, Dowry Harassment, Sexual Harassment of Women at Workplace, Indecent representation of women, etc.., and related laws, Sati System and Honour killing.	
Unit-III: Other Social Problems	**14**
Chapter-7 Alcoholism: Meaning, definitions of alcoholism causes, consequences and societal costs of alcoholism. **Chapter-8** Drug Addiction: Nature and impact of drug addiction – Role of family and peer group, Narcotic Drugs and Psychotropic Substance Act. 1985 **Chapter-9** Untouchability, Corruption and Terrorism: Meaning, Types, Causes, and Related Laws	

Text Books:

1. Ram, Ahuja, 1992. Social Problems in India, Rawat Publications, New Delhi.
2. Turner, Jonathan H., 1987; The Structure of Sociological Theory, Fourth Edition, Rawat Publications, Jaipur.
3. Henry, Kenneth, 1978, Social Problems: Institutional and Interpersonal Perspectives, Scott, Fopresman and Company, Illinois, London.
4. Kothari, Rajani, 1988, Transformation and Survival, Ajanta Publications, Delhi.
5. Lerner, Daniel, 1964,The Passing of Traditional Society, The Free Press, London.
6. Polanyi, Karl, 1957, The Great Transformation: The Political and Economic Origin of our Time, Beacon Press, Boston.
7. Merton, Robert K. & Nisbet, Robert, 1976, Contemporary Social Problems, Hercourt Brace Jovanovich, International Editing, New York, Chicago.
8. Singh, Yogendra, 1988, Modernisation o f Indian Tradition, Reprint, RawatPublication, Jaipur.
9. Bhattacharya, Rinki. Ed. 2004. Behind Closed Doors: Domestic Violence in India. New Delhi: Sage.
10. Uberoi, Patricia. Ed. 1993. Family, Kinshipand Marriage in India. Delhi, Oxford University Press.
11. Uberoi, Patricia. 2006. Freedom and Destiny: Gender, Family, and Popular Culture in India. Delhi: Oxford University Press.

Journals:

European Journal on Criminal Policy and Research, Springer
The International Journal for Crime, Justice and Social Democracy ISSN 2202-8005

Digital Reference:

- https ://www.taylorfrancis.com/books /mono/ 10.4324/9780203791578/framingvictim-nancy-berns
- https ://psycnet. apa.org/record/ 1973-31083-001
- https ://academic. oup.com/socpro/article/ 18/3/298/ 1691981?login=true
- https ://www. jstor.org/stable/79 8932
- https ://academic. oup.com/socpro/article-abstract/ 16/4/409/2925015

Pedagogy: Lecture,Assignments, Interactive Sessions, ICT, Group Discussion

Course Articulation Matrix - 21OECRI201

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	2	3	2	2	2	1	2	2	3	2	3	3
CO2	2	3	3	3	2	2	2	2	3	2	3	3
CO3	2	2	3	3	2	3	3	2	3	2	3	3
Weighted Average	2	2.6	2.6	2.6	2	2	2.3	2	3	2	3	3

OE (2) Syllabus for All Programs (Except B A)

Semester II:

Course Code: 21OECRI202	**Course Title** : OE (2) Fingerprint Science (Theory)
Course Credits :03 (3:0:0)	**Hours of Teaching/ Week :** 03(Theory)
Total Contact Hours : 42 Hours (Theory)	**Formative Assessment Mark :**40 (Theory)
Exam Duration : 2 ½ Hours (Theory)	**Semester End Examination Marks :** 60 (Theory)

Course Outcomes (CO'S):

CO1: Recognize the significance, meaning, and historical context of fingerprints.

CO2: Analyzing the biological processes involved in the production of fingerprints, as well as the main types.

CO3: Learn how latent fingerprints form and how valuable they are in legal proceedings, describe the imprints and their significance in a judicial inquiry.

Content of Theory Course	Hours
Unit-I: Basics of Fingerprinting	**14**
Chapter-1 Fingerprint: Meaning, Concept and history background, with special reference to India. **Chapter-2** Biological basis of fingerprints, Formation of ridges and Fundamental principles of fingerprinting. **Chapter-3** Types of fingerprints, Fingerprint patterns and Fingerprint characters/minutiae. **Chapter-4** Methods of Recording of Plain and rolled fingerprints. **Chapter-5** Classification of fingerprint record.	
Unit-II: Development of Fingerprints	**14**
Chapter-6 Type of Chance prints at a crime scene and their development. **Chapter-7** Latent fingerprints" detection by physical and chemical techniques. **Chapter-8** Preservation of developed fingerprints. **Chapter-9** Digital imaging for fingerprint enhancement.	
Unit-III: Other Impressions and Prints	**14**
Chapter-10 Footprints: Meaning and Importance. **Chapter-11** Casting of foot prints and Electrostatic lifting of latent foot prints. **Chapter-12** Palm prints and their historical importance. **Chapter-13** Gait Pattern and its use in crime investigation.	

Text Books:
1. B.S. Nabar., Forensic Science in Crime Investigation, 3rdEdn., Asia Law House, Hyderabad
2. Barry, A.J. Fisher; Techniques of Crime Scene Investigation, 7th Ed, CRC Press, NY, 2003.
3. Bennett, W.W. & Karen, M.Hass, Criminal Investigative, 6th Ed. Worsworth Thompson Leaming, 2001.
4. Forensic Science, An Introduction to Criminalistics. By Peter R.De Forest, R.E. Gaensslen and Henry C. Lee.
5. Forensic Science in Criminal Investigation and Trials, By Sharma. B. R.
6. Safferstein R. "Criminalistics: - An Introduction to Forensic Science".
7. Wertheim K, Maceo A (2002) The critical stage of friction ridge and pattern formation. J for Ident
8. Wilder HH, Wentworth B Personal identification. Boston: Gorham Press 1918.
9. Dror IE, Charlton P, Peron AE (2006) Contextual information renders experts vulnerable to making erroneous identifications. Forensic Science International
10. Snady LZ (2005) Fingerprint evidence. L Law & Policy
11. Vokey JR, Tangen JM, Cole SA (2009) On the preliminary psychophysics of fingerprint identification. Quart J Exp Psycho
12. Senn DR, Stimson PG (2010) Forensic Dentistry. New York: CRC Press.

Journals:
The Journal of Forensic Sciences (JFS) ISSN: 1556-4029

Digital Reference: http ://www.fbi.gov /hg/cjisd/ident.pdf

Pedagogy: Lecture, Assignments, Interactive Sessions, ICT, Group Discussion

Course Articulation Matrix-21OECRI202

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	3	2	3	2	3	2	1	2	3	1	2	3
CO2	3	3	3	3	3	2	1	2	3	2	3	3
CO3	3	3	3	3	3	2	2	3	3	3	3	3
Weighted Average	3	2.6	3	2.6	3	2	1.3	2.3	3	2	2.6	3

Continuous Formative Evaluation/Internal Assessment (DSC &OE)

Total marks for each course shall be based on continuous assessments and semester end Examination. The patterns is 40:60 for IA and Semester End theory Examinations respectively and 50:50 for IA and Semester End Practical Examinations respectively.

	Theory	Practical
Total Marks	100 Marks	50 Marks
Continuous Assessment-1(C1)	20 Marks	10 Marks
Continuous Assessment-2(C2)	20 Marks	15 Marks
Semester End Examination (C3)	60 Marks	25 Marks

Evaluation Process of IA Marks Shall be as follows:

a) The first component (C1) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, project work etc. This assessment and score process should be completed after completing 50% of syllabus of the courses and within 45 working days of semester program

b) The second component (C2) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, internship/industrial practicum/project work, quiz etc. This assessment and score process should be based on completion of remaining 50% of syllabus of the course of the semester.

c) During the 17th – 19th week of the semester, a semester end examination shall be conducted by the college for each course. This forms the third and final component of assessment (C3) and the maximum marks for the final component will be 60%.

d) In case of a student who has failed to attend the C1 or C2 on a scheduled date, it shall be deemed that the student has dropped the test. However, in case of a student who could not take the test on scheduled date due to genuine reasons, such a candidate may appeal to the Program Coordinator/Principal. The Program Coordinator/Principal in consultation with the concerned teacher shall decide about the genuineness of the case and decide to conduct special test to such candidate on the date fixed by the concerned teacher, but before commencement of the concerned semester end examinations.

e) For assignments, tests, case study analysis etc., of C1 and C2, the students should bring their own answer scripts (A4 size), graph sheets etc., required for such tests/assignments and these be sealed/signed by the concerned department at the time of conducting tests/ assignment /project work etc.

The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) of a course Shall be as under:

	C1Marks	C2 Marks	Total Marks
Session Test	10 Marks	10 Marks	20 Marks
Seminar/Presentation/Assignment/Activity/Case Study/Field Work/Project Work/Quiz etc.	10 Marks	10 Marks	20 Marks
Total	20 Marks	20 Marks	40 Marks

For practical course of full credits, seminar shall not be compulsory. In its place, marks shall be awarded for Practical Record Maintenance (the ratio is 25 (10 + 15):25).

Conduct of Test, Seminar, Case study/Assignment etc., can be either in C1 or in C2 component as decided by the college and concerned department/teacher.

The teachers concerned shall conduct test/seminar/case study etc., The students should be informed about the modalities well in advance. The evaluated courses assignments during component I (C1) and component II (C2) of assessment are immediately provided to the candidates after obtaining acknowledgement in the register by the concerned teacher(s) and maintained by the Department. Before commencement of the semester end examination, the evaluated test, assignment etc., of C1 and C2 shall be obtained back to maintain them till the announcement of the results of the examination of the concerned semester.

The marks of the internal assessment shall be published on the notice board of the department/college for information of the students.

The internal assessment marks shall be communicated to the CoE at least 10 days before the commencement of the examinations and the CoE shall have access to the records of such periodical assessments.

There shall be no minimum in respect of internal assessment marks.

Internal assessment marks may be recorded separately. A candidate who has failed or rejected the result, shall retain the internal assessment marks.

Scheme of Valuation for Practical Examinations-I & II Semester

C1 and C2 are internal tests to be conducted during 8th and 16th weeks respectively of the semester. C3 is the semester-end examination conducted for 3 hours. The student will be evaluated on the basis of Procedure development and its execution. The student has to compulsorily submit the practical record for Evaluation during C2. For C3, the record has to be certified by the Head of the Department.

- The student is evaluated for 25 marks in C1 and C2 as per the following scheme:
    Part-A Practical Exercises (C1): 10 marks
    Part-B Practical Exercises (C2): 10 marks + Record: 05 marks = 15 marks
- The student is evaluated for 25 marks in C3 as per the following scheme:

Assessment Criteria	Marks
Any Three Questions Decided by the External Examiner	10+10+05
Total	25

DSC Theory Question Paper Pattern
For I & II Semester

Max Marks: 60   **Times: 2 ½ Hours**

Instruction: Paper setting
- The Question Paper is divided into 3 parts: Part-A, Part-B and Part-C
- Part-A, Part-B, Part-C With Internal Choice.(Short, Medium and Long answer question)
- Part-A Each Question Carries 2 Marks and student has to answer 5 out of 7questions.
- Part-B Each Question Carries 5 Marks and student has to answer 4 out of 8 questions.
- Part-C Each Question Carries 10 Marks and student has to answer 3 out of 5 questions.

Part-A

I   I.   **Answers any FIVE questions of the following in about 50 words**   **5x2=10**

a.
b.
c.
d.
e.
f.
g.

Part- B

II.   **Answer any FOUR questions of the following in about 300 words**   **4x5=20**

2.
3.
4.
5.
6.
7.
8.
9.

Part-C

III.   **Answer any THREE questions of the following in about 500 words**   **3x10=30**

10.

11.

12.

13.

14.

OE Theory Question Paper Pattern
For I & II Semester

Max Marks: 60   **Times: 2 ½ Hours**

Instruction: Paper Setting

- The Question Paper is divided into 3 parts: Part-A, Part-B and Part-C
- Part-A, Part-B, Part-C With Internal Choice.(Short, Medium and Long answer question)
- Part-A Each Question Carries 2 Marks and student has to answer 5 out of 7questions.
- Part-B Each Question Carries 5 Marks and student has to answer 4 out of 8 questions.
- Part-C Each Question Carries 10 Marks and student has to answer 3 out of 5 questions.

<u>Part-A</u>

I I. **Answers any FIVE questions of the following in about 50 words**   **5x2=10**

    a.
    b.
    c.
    d.
    e.
    f.
    g.

<u>Part- B</u>

II. **Answer any FOUR questions of the following in about 300 words**   **4x5=20**

    2.
    3.
    4.
    5.
    6.
    7.
    8.
    9.

<u>Part-C</u>

III. **Answer any THREE questions of the following in about 500 words**   **3x10=30**

    10.

    11.

    12.

    13.

    14.

Department of Criminology and Forensic Science, BoS Meeting – 15.09.2022

1. **Megha Krishna Nilajkar**

2. **Shashidhar.E**

3. **Dr.G.B.Aravind**
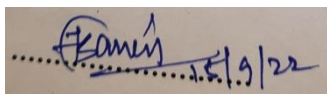
4. **Prof.Basavaraj D Masthi**

ABSENT
5. **Dr.Sarita D'ssouza**

ABSENT
6. **Dr. Krishnarajuk.k**

7. **Francis Devasahayam.B**

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BOARD OF STUDIES (BoS)

DEPARTMENT OF ECONOMICS

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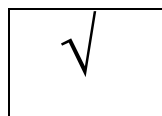
NEP Syllabi for I and II Semester BA Economics

2021-22

DEPARTMENT OF ECONOMICS

Motto

Economics for Empowerment and Enhancement

Vision

To prepare Students for successful careers as applied economists through

fine tuning of minds & to make them understand and analyze the dynamics of Economic

changes

Mission

Providing a sound theoretical base to develop quantitative aptitude,

to substantiate theoretical learning,

Exposure to practical aspects of present day economic challenges

POs	Details of the Programme Outcomes (POs)
PO1	**Domain Knowledge:** Inculcation of fundamental concepts, principles, methods and the application of the same in the realm of concerned domain.
PO2	**Problem Analysis:** This programme enhances the ability to define, identify and analyze appropriate means towards amicable solutions in the given area of Knowledge.
PO3	**Design & Development of Solutions:** Structuring theoretical knowledge and developing customized designs in terms of – Intervention strategies, Profiling, Reviews, Archives, Marketing strategies, Info-graphics and Approaches for arriving at relevant and desirable solutions.
PO4	**Research & Investigation**: Knowledge and application of "Research Methods" to investigate domain specific problems and derive scientific conclusions through testing of Hypotheses and relevant findings empirically.
PO5	**Usage of Modern Tools and Techniques:** Mastery in the academic enclave through skilled handling administering, assessing, validating and interpreting complex phenomena using advanced tools and techniques to create simple and sustainable solutions.
PO6	**Social Sciences & Society –** Promotes domain specific literacy to illuminate the significance of each discipline and its applicability for the well-being of Society.
PO7	**Environment and Sustainability:** Contemplate and Introspect prevailing environmental challenges and consequences. Further, channelize initiatives towards sustainability.
PO8	**Moral and Ethical Values:** Application of Professional Ethics, Humanitarian Values, Accountability and Social Responsibilities in emerging society towards attainment of harmony and co-existence.
PO9	**Individual and Teamwork:** Imbibe the qualities of Teamwork and function effectively as an emerging leader in the diversified and multidisciplinary areas.
PO10	**Communication:** Demonstrates Competency in comprehending and conceptualizing discipline specific concepts and ideas and communicates effectively through fluid communication within the professional and social setup.
PO11	**Economics and Project Management:** Understand the Economic Concept in the context of specific discipline and apply the same through initiating Planning, and Executing the Project Dynamics effectively towards successful Project Management.
PO12	**Lifelong Learning**: Identify and address their own educational needs in a changing world in ways sufficient to upgrade one's skills and competencies through constant self-evaluation and eternal learning.

Department of Economics - List of Board of Studies Members

Sl. No.	Category	Name	Designation	Address for communication	E-mail and Mobile No.
01	University Nominee	Dr. Navitha Thimmaiah	Associate Professor	DoS in Economics & Cooperation, UoM, Mysuru.	navithaprasad@gmail.com +919036180571
02	HoD & Faculty of the Department	Venkatalakshmi M N	Associate Professor	SBRR Mahajana First Grade College, Jayalakshmipuram, Mysuru -12	venkatalakshmimn.fgc@mahajana.edu.in +91 9448472024
		Dr.Pushparani P G	Assistant Professor	SBRR Mahajana First Grade College, Jayalakshmipuram, Mysuru - 12	pushparanimfgc@gmail.com +91 9945094843
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		Chaluvegowda S M	Assistant Professor	SBRR Mahajana First Grade College, Jayalakshmipuram, Mysuru - 12	Chaluvegowda25@gmail.com +918217310214
03	Two Experts from other University	Dr. Ramakrishna B M	Associate Professor	University college,Hampanakatta, (A Constituent college of Mangalore University) Mangaluru-575001	rama_bmr@yahoo.co.in +91 9448427705
		Dr. E. Thippeswamy	Associate Professor	Field Marshal K. M. Cariappa College, (A Constituent college of Mangalore University) Madikeri-571201	ethippeswamy@yahoo.com +91 9448639972
04	Alumnus	Dr. Roopa Patavardhan	Alumnae & Assistant Professor	School of Business studies and social sciences, Christ (Deemed to be University)Hulimavu, Bengaluru-76	roopa.patavardhan@christuniversity.in +91 9901997086
05	Industry Expert	Nikhil Maruthi	Stakeholder & LLP Partner	Merako Media Pvt Ltd Mysuru	Nikhilmaruthi26@gmail.com +91 9650266082

Duration of the programs and Credit Requirements:

A Certificate / Diploma/ Bachelor Degree or Bachelor Degree with Honours in Economics in BA Economics is awarded at the completion of every progressive year.

Exit Option	with Certificate/ Diploma/ Degree/Honors
Successful completion of First year (two semesters) of the four years multidisciplinary undergraduate degree programme	Certificate in Economics
Successful completion of second year (four semesters) of the four years multidisciplinary undergraduate degree programme	Diploma in Economics
Successful completion of three year (six semesters) of the four years multidisciplinary undergraduate degree Programme	Bachelor of Arts Degree in Economics
Successful completion of four years (eight semesters) of the four years multidisciplinary undergraduate degree Programme	Bachelor of Arts Degree with Honours in Economics
Successful completion of Five years (Ten semesters) of the five years multidisciplinary degree programme	Master of Arts Degree with Honours in Economics

Evaluation process of IA marks:

- The first component (C1), of assessment is for 20 marks. This shall be based on test, assignment, seminar, case study, field work, project work etc. This assessment and score process should be completed after completing 50% of syllabus of the course/s and within the first half of the semester.
- The second component (C2), of assessment is for 20 marks. This shall be based on test, assignment, seminar, case study, field work, internship / industrial practicum / project work etc. This assessment and score process should be based on completion of the remaining 50 percent of syllabus of the courses of the semester.
- During the 17th – 20th week of the semester, a semester end examination of Two and Half hours (2.30) duration shall be conducted by the University for each Course. This forms the third and final component of assessment (C3) and the maximum marks for the final component will be 60%.
- In case of a student who has failed to attend the C1 or C2 on a scheduled date, it shall be deemed that the student has dropped the test. However, in case of a student who could not take the test on scheduled date due to genuine reasons, such a candidate may appeal to the concerned teacher/ Program Coordinator / HOD and suitable decision taken accordingly.
- For assignments, tests, case study analysis etc., of C1 and C2, the students should bring their own answer scripts (of A4 size), graph sheets etc., required for such tests /

assignments and these be stamped by the concerned department using their department seal at the time of conducting tests / assignment / work etc.

The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) of a course shall be as under:

Outline for continuous assessment activities for C1 and C2

Activities	C1	C2	Total Marks
Session Test	10 marks	10 marks	20
Case study / Assignment / Field work / Project work/ Academic Quiz/ Review of the Book/ etc.	10 marks	---	10
Case study / Assignment / Field work / Project work/ Academic Economics Quiz/ Review of the Book/ etc	---	10 marks	10
Total	20 marks	20 marks	40

Year-wise Programme Structure (NEP 2020)

Discipline Specific Courses (DSC) and Open Elective (OE)

I & II SEM BA – Economics (2022-23)

Course Type, Code and Title		Hour/Week		Credits	Maximum Marks			Exam Duration	Total
					IA		Exam		
		L	T/P	L: T:P	C1	C2	C3		Marks
Economics – I Sem									
DSC-1 211137	Basic Economics-I	3	0	3:0:0	20	20	60	$2\frac{1}{2}$ Hours	100
DSC-2 211138	Contemporary Indian Economy	3	0	3:0:0	20	20	60	$2\frac{1}{2}$ Hours	100
OE-1	1. Kautilya's Artha Shastra 21OEECO101 2. Pre-reforms Indian Economy 21OEECO102 3. Development Studies 21OEECO103 (**Any one to be opted**)	3	0	3:0:0	20	20	60	$2\frac{1}{2}$ Hours	100
Economics – II Sem									
DSC-3 211237	Basic Economics -II	3	0	3:0:0	20	20	60	2 ½ Hours	100
DSC-4 211238	Karnataka Economy	3	0	3:0:0	20	20	60	2 ½ Hours	100
OE-2	1.Contemporary Indian Economy-21OEECO201 2.Sustainable Development Goals -21OEECO202 3.Economics of Business Environment-21OEECO203 (**Any one to be opted**)	3	0	3:0:0	20	20	60	2 ½ Hours	100

BA (Honors) in Economics

Semester - 1

Course Code: 211137	**Course Title:** DSC 1: Basic Economics – I
Course Credit (L:T:P): 3 (3:0:0)	**Teaching Hours/Week:** 3 Hours
Total Contact Hours: 42 Hours	**Formative Assessment Marks:** 40
Duration of Exam: $2\frac{1}{2}$ Hours	**Summative Assessment Marks:** 60

Course Outcomes:

CO1. Identify the facets of an economic problem and Examine the basic economic concepts and terms.

CO2. Illustrate the operation of a market system, analyze the production and cost relationships of business firms.

CO3. Evaluate the pricing decisions under different market structures; and Use basic cost- benefit calculations as a means of decision making

Content of Basic Economics 1	42 Hrs
Unit– 1 Basic Concepts in Economics:	**14**
Chapter No. 1 Nature and Scope of Economics: Meaning of Economics Nature of Economics Scope of Economics Methods of Economics	5
Chapter No. 2 Thinking Like an Economist: Thinking Like an Economist The Economist as Scientist The Economist as a Policy Adviser	4
Chapter No. 3 Economic System: Meaning and Types of Economic Systems Circular Flow of Economic Activities Evolution of the Present Economic System **Practicum:** 1. Group Discussions on Choice Problem Assignment on Types of Economic Systems	5

Unit – 2 Demand, Supply and Markets:	14
Chapter No. 4. Firms and Households: Meaning of Firms and Household Relationship Between Firms and Household Input and output markets	4
Chapter No. 5. Demand and Supply: Individual Demand Market Demand Determinants of Demand & Supply Market Equilibrium	5
Chapter No. 6. Elasticity and its Measurement: Meaning & Types of Elasticity of Demand Price, Income and Cross Elasticity of Demand Measurement of Elasticity of Demand Determinants of Elasticity of Demand **Practicum:** 1. Estimation of Demand and Supply Elasticities 2. Solving an Equilibrium Problem	5
Unit – 3 Cost and Market Structures:	14
Chapter No. 7 Production and Production Function: Meaning and types of production Function Total Product Average Product Marginal Product	4
Chapter No. 8. Production, Cost and Revenue Curves: TC, AC and MC Cost in the Short-run Fixed Costs and Variable Costs Long run AC and MC TR, MR and AR	5
Chapter No. 9. Market Structure: Markets: Meaning and Features of Perfect and Imperfect/Monopolistic Competition Meaning and Features of Monopoly, Duopoly and Oligopoly . **Practicum:** 1. Calculation of various costs, a mini-project can be taken up. 2. Studying the real-life pricing mechanism through a project/ case studies	5

References :

1. Cohen, A.J. (2020). *Macroeconomics for Life: Smart Choices for All? + MyLab Economics with Pearson eText* (updated 2nd ed.). Toronto, ON: Pearson CanadaInc. Type: Textbook: ISBN:9780136716532

2. Cohen, A.J. (2015). *Microeconomics for Life: Smart Choices for You + MyLab Economics with Pearson eText* (2nd ed.). Toronto, ON: Pearson Canada Inc. Type: Textbook: ISBN:9780133899368

3. Case Karl E. and Fair Ray C. Principles of Economics, Pearson Education Asia, 2014.

4. Mankiw N. Gregory. Principles of Economics, Thomson,2013.

5. Stiglitz J.E. and Walsh C.E. Principles of Economics, W.W. Norton & Co, New York, 2011

Web links:

- https://leverageedu.com/blog/nature-and-scope-of-economics

- https://old.amu.ac.in/emp/studym/100007461
  https://corporatefinanceinstitute.com/resources/economics/economic-system

- https://testbook.com/learn/economics-demand-and-supplyhttps://www.tutorialspoint.com/managerial_economics/theory_of_production.htm

- https://www.analyticssteps.com/blogs/simple-guide-perfect-and-imperfect-competition

Course Articulation Matrix - 211137

PO's CO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1	1	1	1	2	2	1	1	1	-	2
CO2	2	2	1	1	2	2	2	1	1	1	1	2
CO3	3	2	2	2	2	2	1	1	1	1	-	2
Weighted Average	2.3	1.6	1.3	1.3	1.6	2	1.6	1	1	1	1	2

Semester I

Course Code: 211138	**Course Title:** DSC 2: Contemporary Indian Economy
Course Credit (L:T:P): 3 (3:0:0)	**Teaching Hours/Week:** 3 Hours
Total Contact Hours: 42 Hours	**Formative Assessment Marks:** 40
Duration of Exam: $2\frac{1}{2}$ Hours	**Summative Assessment Marks:** 60

Course Outcomes (COs):

CO1. Comprehend the LPG Concept and current problems of Indian Economy

CO2. Identify the factors contributing to the recent growth of the Indian Economy

CO3. Analyze the sector specific policies adopted for achieving the rational goals & Review various economic policies adopted by Govt. Authorities.

Content of Course 1	**42 Hrs**
Unit – 1 LPG POLICIES, ECONOMIC REFORMS AND AGRICULTURE:	**14**
Chapter No. 1 Recent Issues: Concept of LPG India's population policy Demographic Dividend	4
Chapter No. 2 Urbanization and governance: Urbanization and Smart City Mission Impact of COVID-19 Pandemic Atma Nirbhara Bharat Abhiyan	4
Chapter No. 3 Economic Reforms and Agriculture: Commercialization and Diversification of Agriculture Public Distribution System : TPDS Doubling Farm Incomes -MGNREGS (brief introduction) **Practicum** 1. Mini-project to ascertain the impact of pandemic on lives of different sections of population 2. Field visits to understand the agrarian situation	6

Unit – 2 INDUSTRY, BUSINESS, FISCAL POLICY:	**14**
Chapter No. 4. **Industrial Policy:** New Industrial Policy and Changes Public Sector Reforms Privatisation and Disinvestment	4
Chapter No. 5. Business: Ease of Doing Business Performance of MSMEs Role of MNC's in Industrial Development	5
Chapter No. 6. Fiscal Policy: Tax, Expenditure, Budgetary Deficits GST (meaning and features), Fiscal Federalism and Fiscal Consolidation (in brief) Recommendations of the Current Finance Commission **Practicum**: Mini-projects to assess the business climate	5
Unit – 3 MONETARY POLICY, FOREIGN TRADE AND INVESTMENT:	**14**
Chapter No. 7 Monetary Policy: Organisation of India's Money Market Financial Sector Reforms	5
Chapter No. 8. Money and Capital Markets Working of SEBI in India Changing roles of the Reserve Bank of India Foreign Banks and Non-Banking Financial Institutions Demonetization and its impact	5
Chapter No. 9. Foreign Trade and Investment: Direction of India's foreign trade Balance of payments since1991 (trends) FDI – Trends and Patterns New EXIM policy Bilateral and Multilateral Trade Agreements (in brief)	4
Practicum: 1. Computation and analysis of Wholesale Price Index, Consumer Price Index: 2. Group Discussions on India's trade policies and trade agreements	

References:

1. Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India,
2. Oxford University Press, New Delhi.
3. Bhaduri Amit, (2015), A Model of Development By Dispossession, Fourth Foundation
4. Byres Terence J. (ed.), (1998), The State, Development Planning and Liberalisation in India, Delhi, OUP
5. Dutt Ruddar and K.P.M Sundaram (2001): Indian Economy, S Chand & Co. Ltd. New
6. Delhi.
7. Frankel Francine R., (2004), India's Political Economy, Delhi. OUP Jenkins Rob, 2000, Economic Reform in India, Cambridge,CUP
8. Jalan, B. (1996), India's Economic Policy- Preparing for the Twenty First Century, Viking, New Delhi.
9. Joshi Vijaya and L.M.D. Little, (1998), India's Economic Reform 1991-2001, Delhi,OUP.
10. Kapila Uma: Indian Economy: Policies and Performances, Academic Foundation
11. Mishra S.K & V.K Puri (2001) "Indian Economy and –Its development experience", Himalaya Publishing House.
12. Mukharji Rahul (ed.) (2007), India's Economic Transition: The Politics of Reforms, edited by Rahul Mukherji, Oxford University Press , New Delhi.

WEBLINKS

- **https://en.wikipedia.org/wiki/Smart_Cities_Mission**
- **https://prepp.in/news/e-492-new-industrial-policy-1991-indian-economy-notes**
- **https://en.wikipedia.org/wiki/Foreign_trade_of_India**
- **https://tavaga.com/tavagapedia/sebi**
- **https://entri.app/blog/role-of-rbi-in-indian-banking-system**
- **https://www.drishtiias.com/daily-updates/daily-news-editorials/a-new-foreign-trade-policy-for-india**
- **https://www.jagranjosh.com/general-knowledge/population-policies-of-india-1448689756-1**

Course Articulation Matrix-211138

PO's CO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	P09	PO10	PO11	PO12
CO1	2	3	3	3	2	2	2	2	1	1	-	2
CO2	2	2	2	3	2	1	2	1	1	1	1	1
CO3	1	1	1	2	1	-	2	1	1	1	1	1
Weighted Average	1.6	2	2	2.6	1.6	1.5	2	1.3	1	1	1	1.3

Course Code: 21OEECO101	**Course Title: OE1 :** Kautilya's Arthashastra
Course Credit (L:T:P): 3 (3:0:0)	**Teaching Hours/Week:** 3 Hours
Total Contact Hours: 42 Hours	**Formative Assessment Marks:** 40
Duration of Exam: $2\frac{1}{2}$ Hours	**Summative Assessment Marks:** 60

Course Outcomes (COs):

CO1: Enlighten the students about the ancient fundamentals about political and economic constituents, which will frame out a basic Knowledge of understanding the modern trends.

CO2: Identify the upcoming needs in the area of policy making for states at national and international level.

CO3: Equip them with the science of Governance, so it projects out all the dimensions needed to be evaluated by the students about the present socio-economic and political rules and regulations of the state.

Unit	Description	42 Hrs
I	**Chapter 1:** Introduction to Arthashastra **Chapter 2:** Various disciplines of Indian Education System **Chapter 3:** Place of Kautilya's Arthashastra among them	9
II	**Chapter 4:** Importance of science dealing with governance - Introduction to Tantrayuktis – The methods of preparing a compendium, tools and techniques of writing a compendium **Chapter 5:** Governance Procedure- Appointment of the ministers, duties of Government superintendents, treasury, spies, royal writ, punishment-Vakparushya and Dandaparushya; **Chapter 6:** Laws of Inheritance – Determination of forms of Agreements, determination of legal disputes, Division of inheritance, Special shares in inheritance, Distinction between sons	15
III	**Chapter 7:** Economic Dimension- Body of income of the state, collection of revenue, duties of a Chamberlin (Koshadhyksha), Forty ways of embezzlement of the revenue, Punishment for the embezzlement of revenue, Expenditure, Loss and Profit, Keeping up the Accounts, Recovery of Debts, Deposits of the state, Resumption of the gifts, Remission of Taxes **Chapter 8:** Political Dimension- Six-fold Policy- War, Combination of Powers, Agreement of Peace with or without definite terms, Double Policy, Circle of States Conduct of Corporations, Secret means, Plan of treatise	18

Suggested readings:

1. Arthashastra of Kautilya by T. Ganapati Shastri, Chaukhambha Surbharti Prakashana, Varanasi, India, 2005.

2. Arthashastra of Kautilya by Sri. Vacaspati Gairola, Chaukhambha Vidyabahavan, Varanasi, India, 2013.

3. Kautilya, The Arthashastra by L.N. Rangarajan, Penguin Books Ltd, London.

4. Kautilya's Arthashastra: The Way of Financial Management and Economic Governance, Jaico Publishing House, Mumbai, India.

WEBLINKS:

- https://en.wikipedia.org/wiki/Arthashastra
- https://www.youtube.com/watch?v=Yg_yOUPrB5s
- https://www.youtube.com/watch?v=-WV9KPqjV_I
- https://www.amazon.in/Arthashastra-Kautilya/dp/0140446036

Course Articulation Matrix - 21OEECO101

PO's CO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	P09	PO10	PO11	PO12
CO1	1	1	-	1	1	2	1	2	1	1	-	-
CO2	1	1	2	2	1	1	-	2	1	1	-	-
CO3	1	1	1	2	1	1	2	1	-	1	-	1
Weighted Average	1	1	1.5	1.6	1	1.3	1.5	1.6	1	1	-	1

Semester 1

Course Code: 21OEECO102	Course Title: OE1 : Pre-Reforms Indian Economy
Course Credit (L:T:P): 3 (3:0:0)	Teaching Hours/Week: 3 Hours
Total Contact Hours: 42 Hours	Formative Assessment Marks: 40
Duration of Exam: $2\frac{1}{2}$ Hours	Summative Assessment Marks: 60

Course Outcomes (COs):

CO1: Trace the evolution of Indian Economy; Identify the structural features and constraints of the Indian Economy

CO2: Evaluate planning models and strategy adopted in India

CO3: Analyze the sector specific problems and their contributions and Review various economic policies adopted towards overall economic growth

Unit	Description	Hours
I	**Features and problems of Indian Economy:**	**15**
	Chapter 1: Features of Indian Economy: India as a Developing Economy Demographic Features Problems of Poverty: Unemployment and Income Inequality	4
	Chapter 2: Issues in Agriculture sector in India: Agriculture Marketing in India Agricultural Price Policy	6
	Chapter 3: Industrial and Service Sectors: Industrial Policy Micro, Small and Medium Enterprises Service Sector in India. **Practicum:** 1. Identifying economic problems and their causes; 2.Mini-project on any aspect of Indian Agriculture, Industry, Service and Public Sectors	5

II	Economic Policies:	13
	Chapter 4: Planning: Bombay Plan Gandhian Model Nehru-Mahalanobis Model Objectives and Achievements of Economic Planning in India (before 1991)	5
	Chapter 5: Monetary policy in India Instruments of Monetary Policy Black money in India – Magnitude and Impact	2
	Chapter-6: Fiscal Policy in India: Tax Revenue Public Expenditure Budgetary Deficit **Practicum:** Assignment on successes and failures of India's planning; Monetary and Fiscal Policy instruments	6
III	**External sector and Nature of Reforms in India**	14
	Chapter-7: India's Foreign Trade: Salient Features Volume, Composition and Direction of Trade Balance of Payments	6
	Chapter-8: Pre-reforms Strategies: Stabilization Strategies/Measures in all the three sectors of the economy Tariff Policy: Types and Impact Exchange Rate Dynamics	4
	Chapter 9: Planning Commission: Organization and Objectives Functions Practicum: Calculation of BoP and evaluating trade policies; Assignment and group discussion on the planning commission.	4

References:

1. Dutt Ruddar and K.P.M Sundaram (2001): Indian Economy, S Chand & Co. Ltd. New Delhi.

2. Mishra S.K & V.K Puri (2001) "Indian Economy and –Its development experience", Himalaya Publishing House.

3. Kapila Uma: Indian Economy: Policies and Performances, Academic Foundation

4. Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi.

5. Jalan, B. (1996), India's Economic Policy- Preparing for the Twenty First Century, Viking,

Weblinks:

- https://www.insightsonindia.com/indian-economy-3/structure-of-indian-economy
- https://www.yourarticlelibrary.com/agriculture/top-13-problems-faced-by-indian-agriculture/62852
- https://www.economicsdiscussion.net/industries/role-of-industries-in-indian-economy/29539
- https://www.yourarticlelibrary.com/foreign-trade/11-main-features-of-volume-composition-and-direction-of-indias-foreign-trade/5901
- https://www.slideshare.net/BharathiRaj3/monetary-and-fiscal-policy-of-india

Course Articulation Matrix - 21OEECO102

PO's CO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	P09	PO10	PO11	PO12
CO1	2	1	1	2	2	1	2	1	1	1	-	1
CO2	1	2	2	2	1	1	-	1	1	1	2	1
CO3	1	2	1	2	1	1	2	1	1	1	1	1
Weighted Average	1.3	1.6	1.3	2	1.3	1	2	1	1	1	1.5	1

Semester I

Course Code: 21OEECO103	Course Title: OE1: Development Studies
Course Credit (L:T:P): 3 (3:0:0)	Teaching Hours/Week: 3 Hours
Total Contact Hours: 42 Hours	Formative Assessment Marks: 40
Duration of Exam: $2\frac{1}{2}$ Hours	Summative Assessment Marks: 60

Course Outcomes (COs):

CO1: Provide solid foundation of fundamentals required to solve socio economic problems

CO2: Acquire knowledge to appreciate the dimensions of contemporary development issues, to generate sensitivity to problems concerning ethics and human values to develop orientation towards effective communication and critical analysis

CO3: Cultivate professional and ethical attitude, effective Communication skills, teamwork skills, multidisciplinary approach, and to facilitate an advanced understanding and appreciation of the principles, methodologies, value systems, and thought processes employed in human inquiries.

Unit	Description	Hrs
I	**Development: Meaning and Current Challenges**	**9**
	Chapter-1: Meaning of Development: The Concept of Development, Growth and Development Transition from quantitative to qualitative indices	3
	Chapter-2: Modern economic growth: Characteristics of Modern Economic Growth Regional and Global Disparities Common Characteristics and Dissimilarities among Developing Countries.	3
	Chapter-3: Current Development Challenges: Inequality Migration Conflicts Practicum: Group discussion on migration	3
II	**Approaches to Development:**	**12**
	Chapter-4: Development Ethics Concept and Meaning Principles and Importance of Development Ethics **Chapter-5: Assessing Development:** Per Capita Income	2

		Physical Quality of Life Index (PQLI) Gender Empowerment Index HDI	4
		Chapter-6: Approaches of Development: Adam Smith Marx Schumpeter Structuralist Approach Neo-liberalism, IMF and Structural Adjustment Capabilities Approach Practicum: Calculation of different Human Development Indices	6
III		**Theories and Current Issues in Development:**	**21**
		Chapter-7: Theories of Development Theorizing Development - Modernization Theory, Dependency Theory Capitalist World System The Evolution of Thought on Poverty Reduction Colonial Regimes and Their Legacies	6
		Chapter-8: The Industrial Revolution Genesis and Spread International specialization of Labour/Industry Industrial Labour ILO and its activities to promote labour standards	5
		Chapter-9: Environment and Development Increasing degradation of natural environment – Water and Air pollution and Deforestation Depletion of Global Commons Sustainable development - Concept and Measures Sustainable Development Goals (SDGs) Climate Change – Causes, Impact, Measures of Mitigation and Adaptations Practicum: Identify the different pollution sources	10

References:

1. Crocker, D. (2008). Ethics and development theory-practice, Ethics of Global Development Agency, Capability, and Deliberative Democracy,67-106

2. Des Gasper (2008), 'Denis Goulet and the Project of Development Ethics: Development, 8, 99. 481-9, Elsevier Science, 1,pp.10-26.

3. Drèze, Jean and Amartya Sen(2002), India: Development and Participation, second edition. Oxford: Oxford University Press.

4. Gasper, D. (2004). The ethics of development: From Economism to human development. Edinburgh: Edinburgh UniversityPress

5. Myrdal, Gunnar. (1974), "What is Development?" Journal of Economic Issues8(4):729-736.

6. Sen, Amartya (1999) Development as Freedom. New York: Anchor Books.

WEB LINKS:

- **https://www.investopedia.com/terms/d/development-economics.asp**
- **https://press.princeton.edu/books/hardcover/9780691132921/introduction-to-modern-economic-growth**
- **https://www.investopedia.com/terms/i/industrial-revolution.asp**
- **https://testbook.com/learn/development-and-environment**
- **https://www.acciona.com/sustainable-development/?_adin=02021864894**
- **https://www.nrcm.org/climate/global-warming-air-pollution**

Course Articulation Matrix- 21OEECO103

PO's CO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	P09	PO10	PO11	PO12
CO1	1	2	2	2	2	1	3	2	1	2	1	1
CO2	2	2	1	2	1	2	2	2	1	1	-	1
CO3	1	2	1	2	1	2	2	2	-	-	1	1
Weighted Average	1.3	2	1.3	2	1.3	1.6	2.3	2	1	1.5	1	1

Continuous Internal Evaluation and Semester Examination

Total marks for each course shall be based on continuous assessments and term end examinations. As per the decision of the Karnataka State Higher Education Council, it is necessary to have uniform pattern of 40:60 for CIA and Semester End examinations respectively, among all the Universities, their affiliated and autonomous colleges.

The committee deliberated on the same and suggested the following pattern for the CIE Marks.

Sl. No.	Parameters for the Evaluation	Marks
	Continuous Internal Evaluation (CIE)	
A	**Continuous & Comprehensive Evaluation (CCE)**	**20**
B	**Internal Assessment Tests (IAT)**	**20**
	Total of CIE (A+B)	**40**
C	**Semester End Examination (SEE)**	**60**
	Total of CIE and SEE (A+B+C)	**100**

Outline for continuous assessment activities for C1 and C2(DSC&OE)

Activities	C1	C2	Total Marks
Session Test	10 marks	10 marks	20
Case study / Assignment / Field work / Project work/ Academic Quiz/ Review of the Book/ etc.	**10 marks**	---	**10**
Case study / Assignment / Field work / Project work/ Academic Economics Quiz/ Review of the Book/ etc	---	**10 marks**	**10**
Total	**20 marks**	**20 marks**	**40**

QUESTION PAPER PATTERN (C3) FOR DSC & OE PAPERS

Maximum Marks: 60 **Duration:** $2\frac{1}{2}$ Hours

PART -A

Answer any Five of the following: **5X2 =10**

Sl. No. 1
  a.
  b.
  c.
  d.
  e.
  f.
  g.
  h.

PART - B

Answer any Six of the following: **6X5 =30**

  Sl. No. 2 to 10

PART - C

Answer any Two of the following: **2X10 =20**

  Sl. No. 11 to 14

Semester – II

Course Code: 211237	**Course Title:** DSC 3: Basic Economics - II
Course Credit (L:T:P): 3 (3:0:0)	**Teaching Hours/Week:** 3 Hours
Total Contact Hours: 42 Hours	**Formative Assessment Marks:** 40
Duration of Exam: $2\frac{1}{2}$ Hours	**Summative Assessment Marks:** 60

Course Outcomes (COs):

CO1 Examine the operation of the overall economic system; Calculate national income and related aggregates

CO2 Evaluate the macroeconomic policies for solving major problems like poverty and unemployment

CO3 Analyze the relationship between macroeconomic aggregates and the nature of business cycles and policies towards controlling them;

Unit	Description	42 Hrs
I	**Macro Economic Concepts and Relationships:**	**12**
	Chapter-1: Macro Economy; Introduction to National Income Accounting Concepts of GDP, GNP and National Income Approaches to calculating GDP, Personal Income, Nominal and Real GDP Limitations of the GDP Concept	5
	Chapter-2: Monetary Economy Characteristics of Money The Demand for Money The Supply of Money and Overall Liquidity Position Credit Creation	4
	Chapter-3: Inflation Meaning and Causes of Inflation Calculating Inflation Rate Impact of Inflation **Practicum:** 1. Understanding the relationships between various NI concepts used in India's NI accounting; 2.Estimating the components of money supply and interpreting the various price indices.	3

	II	**Macroeconomic Challenges and Policies:**	**12**
		Chapter-4: Macroeconomic Challenges: Business Cycles Economic Growth	3
		Chapter-5: Monetary Policy: Objectives Instruments	3
		Chapter-6: Fiscal Policy: Public Finance vs. Private Finance Fiscal policy - Role of Government: Allocation, Distribution and Stabilization	6
		Practicum: 1. Reviewing the Monetary Policy of RBI; .A project to identify the nature and causes of poverty and the latest central budget	
	III	**Public Policy and Globalization:**	**18**
		Chapter 7: Poverty and Public Policy: Meaning, Types and Measurement of Poverty Poverty Alleviation Strategies in India	6
		Chapter 8: International Trade: The Economic basis for trade—Absolute Advantage and Comparative Advantage. Terms of Trade: Meaning and Types Exchange Rates: Meaning, Types and Determinants Trade Barriers: Tariffs, Subsidies and Quotas Balance of Payments: The Current and Capital Account	9
		Chapter 9: Globalization: Meaning Importance Pros and cons of Globalization : Survey on identification of poor; Calculating the components of BoP of India	3

References

1. Cohen, A.J. (2020). *Macroeconomics for Life: Smart Choices for All? + MyLab Economics with Pearson eText* (updated 2nd ed.). Toronto, ON: Pearson Canada Inc. Type: Textbook: ISBN: 9780136716532

2. Cohen, A.J. (2015). *Microeconomics for Life: Smart Choices for You + MyLab Economics with Pearson eText* (2nd ed.). Toronto, ON: Pearson Canada Inc.

3. Type: Textbook: ISBN: 9780133899368

4. Case Karl E. and Fair Ray C. Principles of Economics, Pearson Education Asia,2014.

5. Mankiw N. Gregory. Principles of Economics, Thomson,2013.

6. Stiglitz J.E. and Walsh C.E. Principles of Economics, W.W. Norton & Co, New York,2011.

Web links:

- https://www.khanacademy.org/economics-finance-domain/macroeconomics
- https://www.economicsdiscussion.net/national-income/4-main-concepts-of-national-income/17241
- https://www.investopedia.com/terms/i/inflation.asp
- https://www.investopedia.com/ask/answers/100314/whats-difference-between-monetary-policy-and-fiscal-policy.asp
- https://education.nationalgeographic.org/resource/effects-economic-globalization

Course Articulation Matrix- 211237

POs CO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	2	2	2	1	1	1	2	1	-	1
CO2	2	1	1	1	1	1	2	1	1	1	1	1
CO3	1	2	2	2	1	1	1	1	1	1	1	1
Weighted Average	2	1.6	1.6	1.6	1.3	1	1.3	1	1.3	1	1	1

Semester II

Course Code: 211238	Course Title: DSC 4: Karnataka Economy
Course Credit (L:T:P): 3 (3:0:0)	Teaching Hours/Week: 3 Hours
Total Contact Hours: 42 Hours	Formative Assessment Marks: 40
Duration of Exam: $2\frac{1}{2}$ Hours	Summative Assessment Marks: 60

Course Outcomes (COs):

CO1 Identify the nature of economic growth and problems of Karnataka state.

CO2 Examine the process of structural growth in Karnataka Economy

CO3 Evaluate the policies and programs undertaken by the Govt. of Karnataka for bringing about socio-economic development

Units	Description	Hours
I	**Characteristics of Karnataka Economy:**	**12**
	Chapter-1: State Income	2
	State Domestic Product and PCI	
	Measures to redress economic inequality.	
	Chapter-2: Human and Natural Resources	6
	Population	
	Human Development Index	
	Poverty and Unemployment– Anti-Poverty and Employment generation Programmes	
	Functioning of Panchayat Raj Institutions	4
	Chapter-3: Natural Resources in Karnataka:	
	Land, Water, Forest and Mineral Resources in Karnataka	
	Sustainable Development Goals in Karnataka	
	Karnataka Environmental Policy	
	Practicum: conduct field visit to Forest/Reservoir/Mining and prepare the report	
II	**Agriculture and Industries in Karnataka**	**18**
	Chapter-4: Agriculture in Karnataka:	5
	Importance of Agriculture	
	Problems in Agriculture	
	Land Reforms	
	Cropping Pattern	
	Irrigation	
	Watershed Development Programme	
	Dry Land Farming	
	Farmers Suicide – Causes And Solutions	

		Chapter-5: Rural Development:	9
		Regional Imbalance: Prof. D. M. Nanjundappa report	
		Public Distribution System	
		Rural Development Programs	
		Chapter 6: Industrial Development in Karnataka:	
		Major Industries in Karnataka - Problems and Prospects	
		MSMEs - Problems and Measures	4
		IT Industries in Karnataka	
		Industrial Finance in Karnataka	
		Industrial Policy of Karnataka	
		Practicum: visit to industrial units in local area and prepare the report/Trace-out the impact of Prof. D. M. Nanjundappa Committee report	
III		**Infrastructure and Finances:**	12
		Chapter7: Economic Infrastructure in Karnataka:	3
		Transportation: Road, Rail, Water and Air Transport	
		Information and Communication Technology Facilities	
		Chapter 8: Social Infrastructure:	
		Drinking Water, Sanitation	3
		Housing, Health and Education Health and Education, Rural Electrification	
		Chapter 9: State Finance:	
		Sources of Revenue: Direct and Indirect Taxes	
		GST: Impact of GST	6
		State Expenditure	
		States Indebtedness	
		State Finance Commission	
		Current State Budget	
		Practicum: Discussion on State budget	

References:

1. Government of Karnataka, Economic Survey [Various Issues]
2. Planning Department, Annual Publication, Government of Karnataka.
3. Karnataka at Glance, Annual Publication Government of Karnataka.
4. Madaiah M & Ramapriya. Karnataka Economy Growth: Issues and Development, Himalaya Pub., House, NewDelhi.
5. Adul Aziz and K.G. Vasanti. (Eds) Karnataka Economy.
6. Government District Development Reports
7. Hanumantha Rao. Regional Disparities and Development in Karnataka.
8. Krishnaiah Gowda H.R. Karnataka Economy, Spandana Publications, Bangalore
9. Nanjundappa D.M. Some Aspects of Karnataka Economy.
10. Puttaswamiah K. Karnataka Economy, Two Volumes

WEB LINKS:

- https://en.wikipedia.org/wiki/Economy_of_Karnataka
- https://planning.karnataka.gov.in/storage/pdf-files/Economic%20Survey/Chapter%20Eng%2021.pdf
- https://www.britannica.com/place/Karnataka-state-India/Economy

Course Articulation Matrix - 211238

PO's CO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	P09	PO10	PO11	PO12
CO1	2	3	3	3	2	2	2	2	1	1	1	1
CO2	2	2	2	2	2	1	1	1	1	1	-	1
CO3	1	1	1	1	1	1	2	1	1	1	1	1
Wtd. Avg.	1.6	2	2	2	1.6	1.3	1.6	1.3	1	1	1	1

Semester II

Course Code: 21OEECO201	Course Title: OE2: Contemporary Indian Economy
Course Credit (L:T:P): 3 (3:0:0)	Teaching Hours/Week: 3 Hours
Total Contact Hours: 42 Hours	Formative Assessment Marks: 40
Duration of Exam: $2\frac{1}{2}$ Hours	Summative Assessment Marks: 60

Course Outcomes (COs):

CO1   Evaluate the LPG Concept and current problems of Indian Economy

CO2   Identify the factors contributing to the recent growth of the Indian Economy

CO3   Examine the sector specific policies adopted for achieving the rational goals & review of various economic policies adopted.

Content of Course 1	42 Hrs
Unit – 1 LPG POLICIES, ECONOMIC REFORMS AND AGRICULTURE:	**14**
Chapter No. 1 Recent Issues: Concept of LPG India's population policy Demographic Dividend	4
Chapter No. 2 Urbanization and governance: Urbanization and Smart City Mission Impact of COVID-19 Pandemic Atma Nirbhara Bharat Abhiyan	4
Chapter No. 3 Economic Reforms and Agriculture: Commercialization and Diversification of Agriculture Public Distribution System : TPDS Doubling Farm Incomes -MGNREGS (brief introduction)	
Practicum 1. Mini-project to ascertain the impact of pandemic on lives of different sections of population 2. Field visits to understand the agrarian situation	6
Unit – 2 INDUSTRY, BUSINESS, FISCAL POLICY:	**14**
Chapter No. 4. Industrial Policy: New Industrial Policy and Changes Public Sector Reforms Privatisation and Disinvestment	4

Chapter No. 5. Business:	5
Ease of Doing Business	
Performance of MSMEs	
Role of MNC's in Industrial Development	5
Chapter No. 6. Fiscal Policy:	
Tax, Expenditure, Budgetary Deficits	
GST (meaning and features), Fiscal Federalism and Fiscal	
Consolidation (in brief)	
Recommendations of the Current Finance Commission	
Practicum: Mini-projects to assess the business climate	
Unit – 3 MONETARY POLICY, FOREIGN TRADE AND INVESTMENT:	**14**
Chapter No. 7 Monetary Policy:	5
Organisation of India's Money Market	
Financial Sector Reforms	
Chapter No. 8. Money and Capital Markets	5
Working of SEBI in India	
Changing roles of the Reserve Bank of India	
Foreign Banks and Non-Banking Financial Institutions	
Demonetization and its impact	
Chapter No. 9. Foreign Trade and Investment:	4
Direction of India's foreign trade	
Balance of payments since1991 (trends)	
FDI – Trends and Patterns	
New EXIM policy	
Bilateral and Multilateral Trade Agreements (in brief)	
Practicum:	
Computation and analysis of Wholesale Price Index, Consumer Price Index:	
Group Discussions on India's trade policies and trade agreements	

References:

- Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi.
- Bhaduri Amit, (2015), A Model of Development By Dispossession, Fourth Foundation
- Dutt Ruddar and K.P.M Sundaram (2001): Indian Economy, S Chand & Co. Ltd. New
- Delhi.
- Jalan, B. (1996), India's Economic Policy- Preparing for the Twenty First Century, Viking, New Delhi.
- Joshi Vijaya and L.M.D. Little, (1998), India's Economic Reform 1991-2001, Delhi,OUP.
- Mishra S.K & V.K Puri (2001) "Indian Economy and –Its development experience", Himalaya Publishing House.

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- https://en.wikipedia.org/wiki/Smart_Cities_Mission
- https://prepp.in/news/e-492-new-industrial-policy-1991-indian-economy-notes
- https://www.jagranjosh.com/general-knowledge/population-policies-of-india-1448689756
- https://en.wikipedia.org/wiki/Foreign_trade_of_India
- https://tavaga.com/tavagapedia/sebi
- https://entri.app/blog/role-of-rbi-in-indian-banking-system
- https://www.drishtiias.com/daily-updates/daily-news-editorials/a-new-foreign-trade-policy-for-india
- https://www.jagranjosh.com/general-knowledge/population-policies-of-india-1448689756-1

Course Articulation Matrix - 21OEECO201

POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	P09	PO10	PO11	PO12
CO1	2	2	3	3	2	2	2	2	1	1	1	2
CO2	2	2	2	2	2	1	2	1	1	1	-	1
CO3	1	1	1	1	1	-	2	1	1	1	-	1
Weighted Average	1.6	1.6	2	2	1.6	1.5	2	1.3	1	1	1	1.3

Semester II

Course Code: 21OEECO202	Course Title: OE2: Sustainable Development Goals
Course Credit (L:T:P): 3 (3:0:0)	Teaching Hours/Week: 3 Hours
Total Contact Hours: 42 Hours	Formative Assessment Marks: 40
Duration of Exam: $2\frac{1}{2}$ Hours	Summative Assessment Marks: 60

Course Outcomes (COs):

CO1 Comprehend the basic concept of Sustainable Development (SD), the environmental, social and economic dimensions.

CO2 Know the history and evolution of the SD concept and discuss the conflicts which are involved in the SD concept on the national as well as on the global scale.

CO3 Examine the disadvantages of instruments involved in SD; Evaluate the sustainable development goals and their attainments.

Unit	Description	42 Hrs
I	**Development, Environment and Pollution**	15
	Chapter-1: Environmental Goods and Services:	3
	Relationship between Environment and Development	
	Environmental Kuznets Curve – Meaning and Evidence	
	Chapter-2: Resource Use and Management:	6
	Resource Taxonomy – Renewable and Non-renewable Resources	
	Economic Theory of Depletable Resources	
	Optimal Use of Renewable Resources	
	Resource Scarcity and Economic Growth – Limits to Growth Model	
	Tragedy of Commons and Common Property Resources	
	Resource Pricing and Resource Conservation	
	Chapter-3: Sustainable Development	6
	Sustainable Development – Meaning and Indicators	
	Objectives and Principles	
	Approaches and Strategies for Sustainable Development	
	Environmental Accounting Measures	
	Practicum: Mini project on the impact of local environment	

II	Sustainable Development Goals	10
	Chapter-4: Introduction and History	3
	Brundtland Committee Recommendations	
	Rio Summit and Agenda21	
	SDGs: Targets and Indicators	4
	Chapter-5: Government and the SDGs	
	Planning	
	Localizing the SDGs	
	SDG Policy Instruments	
	Industrial Policies and the SDGs	3
	Chapter-6: Financing the SDGs	
	Types of Financing	
	New Financing Mechanisms and Global Funds	
	⁃ Assignments on Progress in attainment of various SDGs in India and their states	
III	**SDGs and their Achievement:**	17
	Chapter-7: Realizing the SDGs:	8
	De-growth and Circular Economy	
	Sustainable Production and Consumption	
	Sustainable Cities and Transportation	
	Sustainable Designs, Technology, Digital Revolution and Innovation	
	Renewable Energy	
	Chapter-8: Tools for SDGs Achievement:	
	Governance and Policy Tools	5
	Openness, Participation and Accountability	
	Effectiveness and Coherence	
	India's framework for Sustainable Development	
	Chapter-9: Other Issues in SDGs:	4
	Social business, Civil Society Organizations (CSOs) and Operations	
	Development Assistance	
	Cross-Border Cooperation	
	Practicum: Group Discussion on sustainable practices – other agriculture	

Suggested Readings:

1. Baumol, W.J. and W.E. Oates (1988): *The Theory of Environmental Policy* (2e), CUP, Cambridge.

2. Bhattacharya, R.N. (Ed): Environmental Economics: An Indian Perspective, OUP, New Delhi.

3. Dalby, Simon, et al. Achieving the Sustainable Development Goals: Global Governance Challenges. Routledge,2019.

4. Day, G.S., and P.J.H. Schoemaker (2011), Innovating in uncertain markets: 10 lessons for green technologies, MIT Sloan Management Review, 52.4:37-45.

WEB LINKS:

- **https://www.undp.org/sustainable-development-goals**
- **https://testbook.com/learn/development-and-environment**
- **https://www.elsevier.com/journals/sustainable-cities-and-society/2210-6707/guide-for-authors**
- **https://sdgresources.relx.com/tools**
- **https://en.wikipedia.org/wiki/Cross-border_cooperation**

Course Articulation Matrix - 21OEECO202

PO's CO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	P09	PO10	PO11	PO12
CO1	2	2	2	2	2	1	3	2	1	1	-	1
CO2	2	-	-	-	1	2	2	2	1	1	-	-
CO3	2	2	1	2	2	2	2	2	1	1	1	-
Weighted Average	2	2	1.5	2	1.6	1.6	2.3	2	1	1	1	1

Semester II

Course Code: 21OEECO203	**Course Title: OE2**: Economics of Business Environment:
Course Credit (L:T:P): 3 (3:0:0)	**Teaching Hours/Week:** 3 Hours
Total Contact Hours: 42 Hours	**Formative Assessment Marks:** 40
Duration of Exam: $2\frac{1}{2}$ Hours	**Summative Assessment Marks:** 60

Course Outcomes (COs):

At the end of the course the student should be able to:

CO1 Examine the elements and concepts of Business Environment.

CO2 Identify the environmental constraints in the growth of a business firm.

CO3 Analyze the ways to utilize the current environmental conditions to achieve higher growth in the field of Business.

Unit	Content of Course:	42 Hrs
I	**Introduction to Business Environment:**	**12**
	Chapter-1: Introduction: Definition, Objectives, Importance of Business Environment. Strategies of Business Environment Business Environment Determinants The Micro Environment of Business and The Macro Environment of Business.	3
	Chapter-2: Economic Environment: Meaning of Economic Environment Impact of Liberalization Privatization & Globalization (LPG) on Indian Business Environment. Monetary policy – Meaning and Objectives Fiscal policy – Meaning and Objectives EXIM policy – Meaning and Objectives Industrial policy – Meaning and Objectives (Latest Policy Measures).	6
	Chapter-3: Global Business Environment: Meaning Globalization: Nature and Impact of Globalization Challenges of International Business WTO and its Implications on Indian Economy. **Practicum** 1. Group discussion on WTO and its impact on Indian business	3

II	**Non-Economic Environment:**	16
	Chapter-4: Social and Cultural Environment:	5
	Business and Society	
	Social Objectives of Business	
	Corporate Social Responsibility	
	Consumer Rights & Corporate Governance	
	Business Ethics	
	Chapter-5: Technological Environment:	
	Meaning, Technological Changes – R & D in India	
	Public and Private Investment in R and D.	5
	Chapter-6: Financial Environment:	
	Introduction and Meaning	
	An Overview of Indian Financial System	
	Financial Institutions and their Roles	
	Role of Foreign Direct Investment and its impact on Indian Business	6
	Practicum: Students are expected to analyze the major economic and financial indicators such as GDP/BSE/NSE and submit the report	
III	**Governance and Business in India:**	14
	Chapter-7: Political Environment:	4
	Introduction and Meaning	
	Political Environment and the Economic System	
	Provisions of Indian Constitution for Business	
	Chapter-8: Legal Environment of Business:	
	Indian Company Law	
	Competition policy and law	
	Patents &Trademarks	4
	Industrial Policy- an overview	
	Labour Laws & Social Security,	
	Environmental Laws.	
	Chapter-9: Current Issues in Environmental Business:	
	Ease of Doing Business	
	Performance of MSMEs	
	Make in India	6
	Development of Economic and Social Infrastructure	
	National Monetization Pipeline	
	(The teacher should include the latest policy of the government)	
	Practicum: Students are expected to give a report on how the economic environment has affected the performance of any one of the large Indian Business Houses.	

REFERENCES:

1. Francis Cherunilam: Business Environment, Himalaya Publishing House, Mumbai.
2. K. V. Sivayya and VBM Das: Indian Industrial Economy, Sulthan Chand Publications, Delhi.
3. M. Adhikari: Economic Environment of Business, Sulthan Chand and Sons, New Delhi. Raj 4. Agarwal: Business Environment, Excel Publications, New Delhi.

WEB LINKS:

- **https://www.toppr.com/guides/business-environment**
- **https://www.marketingtutor.net/economic-factors-affect-business-environment**
- **https://pestleanalysis.com/legal-factors-affecting-business**
- **https://www.mca.gov.in/MinistryV2/easeofdoingbusiness.html**
- **https://www.india.gov.in/spotlight/national-monetisation-pipeline-nmp**

Course Articulation Matrix- 21OEECO203

PO's CO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	P09	PO10	PO11	PO12
CO1	3	1	1	1	2	2	2	1	1	1	2	2
CO2	2	2	2	2	2	1	2	1	2	1	2	2
CO3	3	2	2	2	3	1	2	3	2	1	2	1
Weighted Average	2.6	1.6	1.6	1.6	2.3	1.3	2	1.6	1.6	1	2	1.6

Continuous Internal Evaluation and Semester Examination

Total marks for each course shall be based on continuous assessments and term end examinations. As per the decision of the Karnataka State Higher Education Council, it is necessary to have uniform pattern of 40:60 for CIA and Semester End examinations respectively, among all the Universities, their affiliated and autonomous colleges.

The committee deliberated on the same and suggested the following pattern for the CIE Marks.

Sl. No.	Parameters for the Evaluation	Marks
	Continuous Internal Evaluation (CIE)	
A	**Continuous & Comprehensive Evaluation (CCE)**	**20**
B	**Internal Assessment Tests (IAT)**	**20**
	Total of CIE (A+B)	**40**
C	**Semester End Examination (SEE)**	**60**
	Total of CIE and SEE (A+B+C)	**100**

Outline for continuous assessment activities for C1 and C2

Activities	C1	C2	Total Marks
Session Test	10 marks	10 marks	20
Case study / Assignment / Field work / Project work/ Academic Quiz/ Review of the Book/ etc.	10 marks	---	10
Case study / Assignment / Field work / Project work/ Academic Economics Quiz/ Review of the Book/ etc	---	10 marks	10
Total	20 marks	20 marks	40

QUESTION PAPER PATTERN FOR C3 (DSC&OE Papers)

Maximum Marks: 60   **Duration:** $2\frac{1}{2}$ **Hours**

PART -A

Answer any Five of the following: 5X2 =10

Sl. No. 1
a.
b.
c.
d.
e.
f.
g.
h.

PART - B

Answer any Six of the following: 6X5 =30

Sl. No. 2 to 10

PART - C

Answer any Two of the following: 2X10 =20

Sl. No. 11 to 14

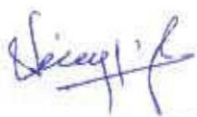# SBRR Mahajana First Grade College (Autonomous)

Jayalakshmipuram, Mysuru – 570 012 Karnataka, INDIA

Affiliated to University of Mysore,

Re-Accredited by NAAC with 'A' Grade, College with Potential for Excellence

Department of Economics

BoS meeting of the Department of Economics was held on 17.09.22 at 11.00 am in AVC-1. Necessary changes and modifications for the Syllabi of I and II Semester BA have been incorporated and some minor changes have been made in the syllabi of III & IV Semester BA as instructed by University of Mysore and as per the NEP- 2020 Guidelines. Proposed List of the Examiners for the academic year 2022-23 was placed before the members. The same was approved by the following BoS Members.

Board of Studies - Department of Economics

Sl. No.	Designation	Name	Signature
01	University Nominee	Dr. Navitha Thimmaiah, Associate Professor DoS in Economics & Cooperation, UoM, Mysuru.	Navitha Thimmaiah 17/09/2022
02	Subject expert	Dr. Ramakrishna B M Associate Professor University college Hampanakatta (Constituent college of Mangalore University) Mangaluru-575001	17/9/22
03	Subject expert	Dr. E. Thippeswamy Associate Professor, Field Marshal K. M. Cariappa College (Constituent college of Mangalore University) Madikeri-571201	Thippuye 17/09/22
04	HoD & Faculty Member	Venkatalakshmi M N Associate Professor, SBRR Mahajana First Grade College, Jayalakshmipuram, Mysuru -12	Venkatalakshmi M N
05	Faculty Member	Dr. Pushparani P G Assistant Professor SBRR Mahajana First Grade College, Jayalakshmipuram, Mysuru -12	— ABSENT —

06	Faculty Member	Siddappa R Assistant Professor SBRR Mahajana First Grade College, Jayalakshmipuram, Mysuru -12	*(signature)*
07	Faculty Member	Chaluvegowda S M Assistant Professor SBRR Mahajana First Grade College, Jayalakshmipuram, Mysuru -12	*(signature)*
08	Subject Expert & Alumnus	Dr. Roopa Patavardhan Assistant Professor School of Business studies and Social Sciences, Christ(Deemed to be University) Hulimavu, Bengaluru-76	*Roopapatavardhan*
09	Industry Person	Nikhil Maruthi Stake Holder LLP Partner,Solution Infinite Media Pvt.Ltd, T-301, Chicago Avenue, Cunningham Road,Opp.Fortis Hospital, Bengaluru-560001	—ABSENT—

Mahajana Education Society (R.)

Education to Excel

SBRR MAHAJANA FIRST GRADE COLLEGE (Autonomous)

Jayalakshmipuram, Mysuru – 570 012
Affiliated to University of Mysore Re-accredited by NAAC with 'A' Grade
College with Potential for Excellence

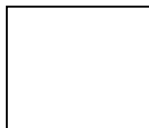# BOARD OF STUDIES (BoS)

DEPARTMENT OF ENGLISH

UG ✓

PG

NEP Syllabi for I and II Semester

English Language - 2 (AECC) and Open Elective Course

2021-22

DEPARTMENT OF ENGLISH

Motto

Write better, speak better

Vision

To mould the students to confront the global challenge

Mission

To inculcate values to become better
human beings through literature

Program Outcome (PO) Attributes

PO1   Domain Knowledge

PO2   Problem Analysis

PO3   Design/Development of Solutions

PO4   Investigation and Research

PO5   Use of Modern Techniques/Tools

PO6   Impact on Society

PO7   Environment and Sustainability

PO8   Moral and Ethical Values

PO9   Individual and Team Work

PO10   Communication

PO11   Project Management and Finance

PO12   Lifelong Learning

General Objectives

- Comprehension of written and spoken English

- Knowledge of various elements of grammar to write better and speak better

- Effective use of English for various purposes: academic, business, professional and social media

- Develop interest in appreciation of literature and its significance to the society

- Understand human life better

- Ability to use English in real life situations

List of Board of Studies Members

Sl. No.	Category	Name Smt./Sri	Designation	Address for Communication	E-mail and Mobile No.
1	HoD & Chairman	Manjunath K R	Assistant Professor	SBRR Mahajana First Grade College, Mysore	manjunathkr.fgc@mahajana.edu.in 9448493596
2	Faculty Member	Geetha D	Assistant Professor	SBRR Mahajana First Grade College, Mysore	geethalit@rediffmail.com 9945653221
3	Two Experts from external university	1. Dr. Nataraj G	Assistant Professor	DoS in English, KSOU, Mysuru	Nataraj.g.ukkalagere@gmail.com 9741219820
		2. Dr. B.N. Shreekerthy	Assistant Professor	DoS in English, Jnanabharathi, University of Bangalore, Bengaluru	drskeerthy@gmail.com 9739012854
4	Nominee by the Vice Chancellor	Dr. Vanamala S M	Associate Professor	Mandya P G Centre, Mandya	vanamalasm861@gmail.com 9449789748
5	Alumnus	Ms. Spoorthi C S	Assistant Professor	St. Joseph's College, Hunsuru	cssporrthi@gmail.com 8867091969

Course Structure (NEP 2020)

English Language (AECC) and Open Elective (OE)
I Year for all Progams
I Semester

| Course Type, Code and Title | L:T:P | Credits | Teaching Hours per Week | Total No. of Hours | Maximum Marks | | | Total Marks | Exam Duration |
| | | | | | IA | | Exam | | |
					C1	C2	C3		
AECC- Poetry, Prose and Language Component – I **BA / BSc / BCA** – 21ENG119 **BCom/BBA(All)/**-21ENG120	2 : 1 : 0	3	04	56	20	20	60	100	2½
OE (I)- Functional English Grammar and Study Skills 21OEENG101	3 : 0 : 0	3	03	42	20	20	60	100	2½
II Semester									
AECC -Poetry, Prose and Language Component – II **BA / BSc / BCA** – 21ENG219 **BCom/BBA(All)/**-21ENG220	2 : 1 : 0	3	04	56	20	20	60	100	2½
OE (II) – Spoken English for Corporate Jobs 21OEENG201	3 : 0 : 0	3	03	42	20	20	60	100	2½

Annexure: English Language Syllabus
Syllabus For Ability Enhancement Compulsory Course (AECC)
ENGLISH LANGUAGE (L2)

For Undergraduate Programs offered in
Faculty of Arts and Faculty of Science (BA, BSc., BCA)
Title of the Paper – Poetry, Prose and Language Component-1

Semester I **Course Code:** **BA / BSc. / BCA 21ENG119**	**Course Title:** **Poetry, Prose and Language Component-1**
Course Credits: 03 (2:1:0)	**Hours of Teaching/Week:** 04
Total Contact Hours: 56 Hours	**Formative Assessment Marks:** 40
Exam Duration: 2½ Hours	**Semester End Examination Marks:** 60

Course Outcomes

CO1: Obtain knowledge of literary genres and devices

CO2: Familiarity with representative literary texts with attention to historical, geographical, cultural contexts. Inquire into the socio-political background and determine its impact on the society.

CO3: Develop the skill to interpret, analyze, criticize and to express creatively for a variety of purposes and audience.

CO4: Gain an insight into the aesthetic values of literature and relate the didactic purpose of literature to lead a successful life.

CO5: Heightened awareness of correct usage of English grammar in written and oral Communication.

Course Content

POETRY   **20 hrs**

1. When in Disgrace – William Shakespeare
2. The Pulley – George Herbert
3. The Quiet Life – Alexander Pope
4. Fidelity – William Wordsworth
5. The Man He Killed – Thomas Hardy
6. Freedom – Rabindranath Tagore
7. Refugee Blues – W. H. Auden
8. The Cold Within – James Patrick Kinney

PROSE 16 hrs

1. With the Photographer- Stephen Leacock
2. Prospects of Democracy in India- Dr. B. R. Ambedkar
3. What is Science? – George Orwell
4. Fool's Paradise- Isaac Bashevis Singer

LANGUAGE COMPONENT AND LITERARY ACTIVITY 20 hrs

1. Punctuation
2. Articles
3. Prepositions
4. Verb in relation to Tense, Person and Number of the Subject
   (Subject- Verb Agreement/Concord)

TEXT BOOK

REVERBERATION – 1 for I Semester Bachelor's Degree, University of Mysore, Mysuru

References:

- https://orelt.col.org/module/unit/4-grammar-improving-composition-skills

- https://www.academia.edu/26724441/A_Concise_Grammar_for English_Language_Teachers

- Jain Charul, Pradyumnasinh Raj & Yunus Karbharj. English Skills for Academic Purposes, Macmillan Education. London, 2017

- Murphy, Raymond, Grammar in Use, CUP, 2019, 5th Edition

- Swan Michael, Basic English Usage, OUP

- Thomson A J, A V Martinet, A Practical English Grammar, Oxford University Press

Course Articulation Matrix - BA / BSc. / BCA 21ENG119

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO 1	3	-	1	-	-	2	1	3	-	3	1	3
CO 2	3	3	2	3	1	3	3	3	1	3	1	3
CO 3	2	3	1	1	3	3	2	2	1	3	1	3
CO 4	2	2	2	-	-	3	2	3	1	3	-	3
CO 5	3	3	2	-	3	2	-	-	1	3	-	3
WA	**2.6**	**2.7**	**1.6**	**2**	**2.3**	**2.6**	**2**	**2.7**	**1**	**3**	**1**	**3**

Annexure: English Language Syllabus
Syllabus For Ability Enhancement Compulsory Course (AECC)
ENGLISH LANGUAGE (L2)

For Undergraduate Programs offered in
Faculty of Commerce and Management
(B.Com., BBA)(BBA (H & H) (BBA Aviation & International Tourism)
Title of the Paper – Poetry, Prose and Language Component-1

Semester I **Course Code:** **B.Com. / BBA (All) 21ENG120**	**Course Title:** **Poetry, Prose and Language Component-1**
Course Credits: 03 (2:1:0)	**Hours of Teaching/Week:** 04
Total Contact Hours: 56 Hours	**Formative Assessment Marks:** 40
Exam Duration: 2½ Hours	**Semester End Examination Marks:** 60

Course Outcomes

CO1: Obtain knowledge of literary genres and devices

CO2: Familiarity with representative literary texts with attention to historical, geographical, cultural contexts. Inquire into the socio-political background and determine its impact on the society.

CO3: Develop the skill to interpret, analyze, criticize and to express creatively for a variety of purposes and audience.

CO4: Gain an insight into the aesthetic values of literature and relate the didactic purpose of literature to lead a successful life.

CO5: Heightened awareness of correct usage of English grammar in written and oral Communication.

Course Content

POETRY   **20 hrs**

1. When Forty Winters Shall Besiege Thy Brow (Sonnet 2) – William Shakespeare
2. The World is Too Much with Us– William Wordsworth
3. A Wagon of Shoes – Avrom Sutzkever
4. Nine Gold Medals- David Roth
5. False Religion- Rabindranath Tagore
6. Avarice – George Herbert
7. O, My Luve's like a Red, Red Rose- Robert Burns
8. On Killing a Tree – Gieve Patel

PROSE 16 hrs

1. The Miser – George Orwell

2. The Storyteller – Saki

3. Going Green – Ramachandra Guha

4. The Position of Women in Hinduism and Buddhism- Dr. B. R. Ambedkar

LANGUAGE COMPONENT AND LITERARY ACTIVITY 20 hrs

1. Punctuation

2. Articles

3. Prepositions

4. Verb in relation to Tense, Person and Number of the Subject
   (Subject- Verb Agreement/ Concord)

TEXT BOOK

RESPELENDENCE – 1 for I Semester Bachelor's Degree, University of Mysore, Mysuru

References:

- https://orelt.col.org/module/unit/4-grammar-improving-composition-skills

- https://www.academia.edu/26724441/A_Concise_Grammar_for_English_Language_Teachers

- Jain Charul, Pradyumnasinh Raj & Yunus Karbharj. English Skills for Academic Purposes, Macmillan Education. London, 2017

- Murphy, Raymond, Grammar in Use, CUP, 2019, 5th Edition

- Swan Michael, Basic English Usage, OUP

- Thomson A J, A V Martinet, A Practical English Grammar, Oxford University Press

Course Articulation Matrix B.Com. / BBA (All) 21ENG120

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO 1	3	-	1	-	-	2	1	3	-	3	1	3
CO 2	3	3	2	3	1	3	3	3	1	3	1	3
CO 3	2	3	1	1	3	3	2	2	1	3	1	3
CO 4	2	2	2	-	-	3	2	3	1	3	-	3
CO 5	3	3	2	-	3	2	-	-	1	3	-	3
WA	**2.6**	**2.7**	**1.6**	**2**	**2.3**	**2.6**	**2**	**2.7**	**1**	**3**	**1**	**3**

Formative Assessment for I Semester Common to all Programs	
Assessment Occasion/ type	**Weightage in Marks**
First Internal Test	20
First Class Test/Oral Test/ Assignments/ Surveys/ Interviews	10
Second Class Test/Oral Test/ Assignments/ Surveys/ Interviews	10
Total	**40**

Formative Assessment = 40 Marks

Term End Examination = 60 Marks

Total = 100 Marks

Question Paper Pattern for Semester End Examination Common to all Programs

Language English – I
Title of the Paper: Poetry, Prose and Language Component-I

Time: 2½ hours   Max. Marks: 60

I   Answer <u>EIGHT</u> of the following Questions in a Word, a Phrase or a sentence each: **8x1=8**

a)

b)

c)

d)

e)

f)

g)

h)

i)

j)

k)

l)

II   Annotate THREE of the following: **3x4=12**

a)

c)

d)

e)

f)

III   Answer <u>TWO</u> of the following: **2x5=10**

a)

b)

c)

d)

IV   Answer <u>TWO</u> of the following: **2x5=10**

a)

b)

c)

d)

V	**Language Component:**	**2x5=10**
a)	**Punctuate the following:**	**5x1=5**

i)

ii)

iii)

iv)

v)

b) Filling the Blanks with appropriate Articles: **5x1=5**

i)

ii)

iii)

iv)

v)

c) Filling the Blanks with appropriate Prepositions: **5x1=5**

i)

ii)

iii)

iv)

v)

d) Choose the correct form of the Verb: **5x1=5**

i)

ii)

iii)

iv)

v)

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Annexure: English Open Elective Syllabus - I
For all Undergraduate Programs
Title of the Paper-Functional English Grammar and Study Skills

Semester I **Course Code:** **21OEENG101**	**Course Title: Functional English Grammar and Study Skills**
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week:** 03
Total Contact Hours: 42 Hours	**Formative Assessment Marks:** 40
Exam Duration: 2½ Hours	**Semester End Examination Marks:** 60

Course Outcomes

CO1: Knowledge of elements of grammar for better written and oral communication.

CO2: Enhanced ability in rudiments of written process for functional uses of English for various purposes- personal, academic and business.

CO3: Equipped with the mechanics of effective reading skills.

Course Content

Section I: Functional English Grammar

1. Grammar of Spoken and Written English

2. Basic Sentence Patterns in English

3. Analysis of Sentence Patterns (SVO, SV, SVOC, SVOA, SVO A/C)

4. Functions of Various Types of Phrases: Noun Phrases, Verb Phrases, Adjective Phrases, Adverbial Phrases, Prepositional Phrases

5. Functions of Clauses: Noun Clause, Adjective Clause and Adverbial Clause and Prepositional Clauses

6. Verbs – Tense and Aspects, Modal Verbs, Functions and Uses

Section II: Writing Skills

1. Writing as a Skill–Its Importance, Mechanism of Writing, Words and Sentences, Paragraph as a Unit of Structuring the Whole Text, Analysis of Paragraph

2. Functional Uses of Writing: Personal, Academic and Business

3. Writing Process: Planning a Text, Finding Materials, Drafting, Revising, Editing, Finalising Draft

4. Models of Writing: Expansion of Ideas, Dialogue Writing, Drafting an Email

Section III: Reading Skills

1. Meaning and Process of Reading
2. Strategies and methods to Improve Reading Skill
3. Sub-skills of Reading: Skimming, Scanning, Extensive Reading, Intensive Reading

References:

- Geoffrey Leech and Svartik. *Communicative Grammar English*, Pearson
- Geoffrey Leech. *English Grammar for Today*, Palgrave
- Leena Sen. *Communication Skills*, Princeton Hall
- Prasad P. *The Functional Aspects of Communicative Skills*.
- Vandana Singh. *The Written Word*, OU

Course Articulation Matrix - 21OEENG101

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO 1	3	-	-	-	1	2	1	1	2	2	1	3
CO 2	3	1	1	3	1	2	1	1	3	3	1	3
CO 3	3	1	-	3	1	2	1	1	3	3	1	3
WA	3	1	1	3	1	2	1	3	2.6	2.6	1	3

Formative Assessment for I Semester Common to all Programs	
Assessment Occasion/type	**Weightage in Marks**
First InternalTest	20
First Class Test/Oral Test/ Assignments/ Surveys/ Interviews	10
Second Class Test/Oral Test/ Assignments/ Surveys/ Interviews	10
Total	**40**

FormativeAssessment = 40 Marks

Term End Examination = 60 Marks

Total = 100 Marks

Question Paper Pattern for Semester End Examination Common to all Programs

English Open Elective-I

Title of the Paper- Functional English Grammar and Study Skills

Time: 2½ hours   Max. Marks: 60

I   Answer TEN of the following questions in about 2-3 sentences :   **10x2=20**
    (12 questions given should cover all the sections)

 a)

 b)

 c)

 d)

 e)

 f)

 g)

 h)

 i)

 j)

 l)

 m)

 n)

 o)

II   Write short notes on Four of the following: **4x5=20**
    (6 Questions to be given covering all sections)

 a)

 b)

 c)

 d)

 e)

 f)

III   Answer the following: **2x5=10**

 a)   Write a dialogue (a situation to be given)

 b)   Write a Paragraph on:

IV   Answer One of the following: **1x10=10**

   (Two concepts to be given from any two sections)

 a)

 b)

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Annexure: English Language Syllabus
Syllabus For Ability Enhancement Compulsory Course (AECC)
ENGLISH LANGUAGE (L2)

For Undergraduate Programs offered in
Faculty of Arts and Science (BA, BSc, BCA)
Title of the Paper – Poetry, Prose and Language Component-II

Semester II **Course Code:** **BA / BSc. / BCA 21ENG219**	**Course Title:** **Poetry, Prose and Language Component-II**
Course Credits: 03 (2:1:0)	**Hours of Teaching/Week:** 04
Total Contact Hours: 56 Hours	**Formative Assessment Marks:** 40
Exam Duration: 2½ Hours	**Semester End Examination Marks:** 60

Course Outcomes

CO1: Obtain knowledge of literary genres and devices

CO2: Familiarity with representative literary texts with attention to historical, geographical, cultural contexts. Inquire into the socio-political background and determine its impact on the society.

CO3: Develop the skill to interpret, analyze, criticize and to express creatively for a variety of purposes and audience.

CO4: Gain an insight into the aesthetic values of literature and relate the didactic purpose of literature to lead a successful life.

CO5: Heightened awareness of correct usage of English grammar in written and oral Communication.

Course Content

POETRY   **20 hrs**

1. How Do I Love Thee? (Sonnet 43)- Elizabeth Barrett Browning

2. Thou Art Indeed Just, Lord – Gerard Manley Hopkins

3. The Laboratory - Robert Browning

4. No Men are Foreign - James Kirkup

5. Caged Bird – Maya Angelou

6. The Bread of the People – Bertolt Brecht

7. Bankers are like Anybody Else - Ogden Nash

8. Stammer- Satchidananda

PROSE 16 hrs

1. A Devoted Son – Anita Desai
2. Social Responsibilities of a Scientist- Bertrand Russell
3. The Story of an Hour- Kate Chopin
4. Pandit Jasraj- Captain Gopinath

LANGUAGE COMPONENT AND LITERARY ACTIVITY 20 hrs

1. Adjectives
2. Adverbs
3. Linkers (Conjunctions)
4. Words Often Confused (Text based)

TEXT BOOK

RESPELENDENCE – II for II Semester Bachelor's Degree, University of Mysore, Mysuru

References:

- https://orelt.col.org/module/unit/4-grammar-improving-composition-skills
- https://www.academia.edu/26724441/A_Concise_Grammar_for English_Language_Teachers
- Jain Charul, Pradyumnasinh Raj & Yunus Karbharj. English Skills for Academic Purposes, Macmillan Education. London, 2017
- Murphy, Raymond, Grammar in Use, CUP, 2019, 5th Edition
- Swan Michael, Basic English Usage, OUP
- Thomson A J, A V Martinet, A Practical English Grammar, Oxford University Press

Course Articulation Matrix - BA / BSc. / BCA 21ENG219

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO 1	3	-	1	-	-	2	1	3	-	3	1	3
CO 2	3	3	2	3	1	3	3	3	1	3	1	3
CO 3	2	3	1	1	3	3	2	2	1	3	1	3
CO 4	2	2	2	-	-	3	2	3	1	3	-	3
CO 5	3	3	2	-	3	2	-	-	1	3	-	3
WA	2.6	2.7	1.6	2	2.3	2.6	2	2.7	1	3	1	3

Annexure: English Language Syllabus
Syllabus For Ability Enhancement Compulsory Course (AECC)
ENGLISH LANGUAGE (L2)

For Undergraduate Programs offered in
Faculty of Commerce and Management
B.Com, BBA, BBA (H & H), BBA (Aviation and International Tourism)
Title of the Paper – Poetry, Prose and Language Component-II

Semester II **Course Code:** **B.Com. / BBA (All) 21ENG220**	**Course Title:** **Poetry, Prose and Language Component-II**
Course Credits: 03 (2:1:0)	**Hours of Teaching/Week:** 04
Total Contact Hours: 56 Hours	**Formative Assessment Marks:** 40
Exam Duration: 2½ Hours	**Semester End Examination Marks:** 60

Course Outcomes

CO1: Obtain knowledge of literary genres and devices

CO2: Familiarity with representative literary texts with attention to historical, geographical, cultural contexts. Inquire into the socio-political background and determine its impact on the society.

CO3: Develop the skill to interpret, analyze, criticize and to express creatively for a variety of purposes and audience.

CO4: Gain an insight into the aesthetic values of literature and relate the didactic purpose of literature to lead a successful life.

CO5: Heightened awareness of correct usage of English grammar in written and oral Communication.

Course Content

POETRY   20 hrs

1. Death, Be Not Proud – John Donne
2. My Last Duchess- Robert Browning
3. Ozymandias – P. B. Shelley
4. Unknown Citizen- W. H. Auden
5. I, Too – Langston Hughes
6. Mirror- Sylvia Plath
7. Mending Wall – Robert Frost
8. Ulysses by the Merlion – Edwin Thamboo

PROSE 16 hrs

1. Self-Portrait (Rashtrapati) – Jawaharlal Nehru

2. The Night Train at Deoli – Ruskin Bond

3. On the Rule of the Road- A. G. Gardiner

4. After Twenty Years – O. Henry

LANGUAGE COMPONENT AND LITERARY ACTIVITY 20 hrs

1. Adjectives

2. Adverbs

3. Linkers (Conjunctions)

4. Words Often Confused

TEXT BOOK

RESPELENDENCE – II for II Semester Bachelor's Degree, University of Mysore, Mysuru

References:

- https://orelt.col.org/module/unit/4-grammar-improving-composition-skills

- https://www.academia.edu/26724441/A_Concise_Grammar_for_English_Language_Teachers

- Jain Charul, Pradyumnasinh Raj & Yunus Karbharj. English Skills for Academic Purposes, Macmillan Education. London, 2017

- Murphy, Raymond, Grammar in Use, CUP, 2019, 5th Edition

- Swan Michael, Basic English Usage, OUP

- Thomson A J, A V Martinet, A Practical English Grammar, Oxford University Press

Course Articulation Matrix
B.Com. / BBA (All) 21ENG220

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO 1	3	-	1	-	-	2	1	3	-	3	1	3
CO 2	3	3	2	3	1	3	3	3	1	3	1	3
CO 3	2	3	1	1	3	3	2	2	1	3	1	3
CO 4	2	2	2	-	-	3	2	3	1	3	-	3
CO 5	3	3	2	-	3	2	-	-	1	3	-	3
WA	**2.6**	**2.7**	**1.6**	**2**	**2.3**	**2.6**	**2**	**2.7**	**1**	**3**	**1**	**3**

Formative Assessment for II Semester Common to all Programs	
Assessment Occasion/ type	**Weightage in Marks**
First Internal Test	20
First Class Test/Oral Test/ Assignments/ Surveys/ Interviews	10
Second Class Test/Oral Test/ Assignments/ Surveys/ Interviews	10
Total	**40**

Formative Assessment = 40 Marks

Term End Examination = 60 Marks

Total = 100 Marks

Question Paper Pattern for Semester End Examination Common to all Programs

Language English – II

Title of the Paper: Poetry, Prose and Language Component-II

Time: 2½ hours   Max. Marks: 60

I   Answer <u>EIGHT</u> of the following Questions in a Word, a Phrase or a sentence each: **8x1=8**

   a)

   b)

   c)

   d)

   e)

   f)

   g)

   h)

   i)

   j)

   k)

   l)

II   **Annotate THREE of the following:**   **3x4=12**

   a)

   c)

   d)

   e)

   f)

III   **Answer <u>TWO</u> of the following:**   **2x5=10**

   a)

   b)

   c)

   d)

IV   **Answer <u>TWO</u> of the following:**   **2x5=10**

   a)

   b)

   c)

   d)

V	**Language Component:**	**2x5=10**
a)	**Identify the adjectives in the following sentences:**	**5x1=5**

i)

ii)

iii)

iv)

v)

b) **Identify the adverbs in the following sentences:** **5x1=5**

i)

ii)

iii)

iv)

v)

c) **Rewrite the following sentences uses suitable linkers given in the brackets:** **5x1=5**

i)

ii)

iii)

iv)

v)

d) **Choose the correct word given in the brackets:** **5x1=5**

i)

ii)

iii)

iv)

v)

✸✸ ✸✸✸ ✸✸

Annexure: English Open Elective Syllabus - II
For all Undergraduate Programs

Title of the Paper-Spoken English for Corporate Jobs

Semester II **Course Code:** **21OEENG201**	**Course Title: Spoken English for Corporate Jobs**
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week:** 03
Total Contact Hours: 42 Hours	**Formative Assessment Marks:** 40
Exam Duration: 2½ Hours	**Semester End Examination Marks:** 60

Course Outcomes

CO1: Skills for Enhanced Job opportunities

CO2: Enriched vocabulary and Knowledge of Business English

CO3: Effective communication for various social situations

CO4: Ability to thrive in a multi-cultural society

Course Content

Section I: English for Front Desk Management

1. Greeting, Welcoming
2. Dealing with Complaints, Giving Instructions or Directions
3. Giving Information: About Various Facilities, Distance, Area, Local Specialties
4. Consultation and Solution of Problems
5. Accepting Praises and Criticism, Apologizing

Section II: Fluency and Etiquettes

1. Polite sentences and Words
2. Use of persuading words
3. Intonation and Voice Modulation
4. Developing Vocabulary

Section III: Business Speeches

1. Principles of Effective Speech and Presentations
2. Speeches: Introduction, Vote of Thanks, Occasional Speech, Theme Speech
3. Use of Audio -Visual Aids in Presentations

Section IV: Cross-Cultural Communication

1. Dealing with Language Differences
2. Probing Questions to get Information
3. Etiquettes in Cross-cultural Communication

References:

- JV Vilanilam, More effective communication, Sage Publication Pvt. Ltd.
- Krishna Mohan and Banarji, Developing Communication Skills.
- Lesikar & Pettit, Business Communication, AITBS, Publishers Delhi
- Ludlow & Panton PHI, The Essence of Effective Communication, New Delhi.
- N Krishnaswamy, Lalitha Krishnaswamy and others, Mastering Communication Skills and Soft Skills - Bloomsbury, New Delhi, 2015
- Pradhan Bhende & Thankur, Business Communication Himalaya Publishing House, Mumbai.
- Rai & Raj - Effective Documentation & Presentation, Himalaya Publishing House – Mumbai
- Ray Rubeen, Communication Today - Himalaya Publishing House, Mumbai.
- R S N Pillai & Bhagawati, S Chand & Co.- Commercial Correspondence & Office Management
- Sushil Bahl , Business Communication Today, Response Books, Sage Publication, New Delhi.

Course Articulation Matrix
21OEENG201

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO 1	3	2	1	1	3	1	1	1	2	3	1	3
CO 2	3	2	1	1	2	3	1	2	2	3	1	3
CO 3	3	1	1	2	1	2	1	2	2	3	1	3
WA	3	1.5	1	1.5	1.75	2.25	1	2	2	3	1	3

Formative Assessment for II Semester Common to all Programs	
Assessment Occasion/type	**Weightage in Marks**
First Internal Test	20
First Class Test/Oral Test/ Assignments/ Surveys/ Interviews	10
Second Class Test/Oral Test/ Assignments/ Surveys/ Interviews	10
Total	**40**

FormativeAssessment = 40 Marks

Term End Examination = 60 Marks

Total = 100 Marks

Question Paper Pattern for Semester End Examination Common to all programs

English Open Elective-II
Title of the Paper- Spoken English for Corporate Jobs

Time: 2½ hours   Max. Marks: 60

I Answer TEN of the following questions in about 2-3 sentences :   **10x2=20**
   (12 questions given should cover all the sections)

 a)

 b)

 c)

 d)

 e)

 f)

 g)

 h)

 i)

 j)

 l)

m)

 n)

 o)

II Write short notes on Four of the following: **4x5=20**
   (6 Questions to be given covering all sections)

 a)

 b)

 c)

 d)

 e)

 f)

III Answer Two of the following: **1x10=10**
   (Three concepts to be given from any three sections)

a)

b)

c)

****

English Syllabus 2021-22
Board of Studies

Sl. No.	Name and address	Designation	Signature
01	Manjunath K R HoD – Department of English SBRR Mahajana First Grade College Mysuru manjunathkr.fgc@mahajana.edu.in	Chairman	K.R.Manjunath 20-12-2021
02	Dr. Vanamala S M Associate Professor Mandya P G Centre Mob. 9449789748 Vanamalasm861@gmail.com	Member	S.M.Vanamala
03	Dr. Nataraj G Assistant Professor DoS in English, KSOU, Mysuru Mob. 9741219820 nataraj.g.ukkalagcre@gmail.com	Member	
04	Dr. B.N. Shreekeerthy Assistant Professor DoS in English Jnanabharathi, University of Bangalore, Bengaluru Mob. 9739012854 drskeerthy@gmail.com	Member	
05	Smt. Geetha D Assistant Professor Department of English SBRR Mahajana First Grade College, Mysuru Mob. 9945653221 geethalit@rediffmail.com	Member	Geetha
06	Ms. Spoorthi C S Assistant Professor St. Joseph's College, Hunsuru Mob. 8867091969 csspoorthi@gmail.com	Member	Absent.

K R Manjthi
Chairperson
BOS/BOE in English
Mahajana First Grade College

Mahajana Education Society (R.)

Education to Excel

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Affiliated to University of Mysore Re-accredited by NAAC with 'A' Grade
College with Potential for Excellence

BOARD OF STUDIES (BoS)

DEPARTMENT OF ENGLISH

UG ☑

PG ☐

NEP Syllabi for I and II Semester BA Optional English 2021-22

DEPARTMENT OF ENGLISH

Motto

Write better, speak better

Vision

To mould the students to confront the global challenge

Mission

To inculcate values to become better
human beings through literature

Program Outcomes (POs) for Bachelor of Arts

PO1 **Domain knowledge:** Acquire knowledge of management theories and practices with special focus on professional accounting and finance.

PO2 **Problem Analysis:** Identify, formulate and analyze complex business problems in a structured approach to focus upon real issues.

PO3 **Design/Development of Solutions:** Developing solutions by using critical thinking and analytical reasoning with appropriate qualitative, quantitative techniques and software applications in solving business and research problems.

PO4 **Investigation and Research:** Implementation of research methods to investigate specific business problems and draw conclusions.

PO5 **Use of Modern Techniques/Tools:** Ability to analyze and interpret data using mathematical, statistical, ICT and risk management techniques to solve business problems.

PO6 **Business and Society**: Entrepreneurs/Managers with socio-economic value system.

PO7 **Environment and Sustainability:** Contemplate and Introspect prevailing environmental challenges and channelize inclination towards sustainable development.

PO8 **Moral and Ethical Values:** Assimilate ethical, value based leadership skills and moral principles.

PO9 **Individual and Team Work:** Ability to perform as an individual or leader in diverse settings.

PO10 **Communication:** Harness communication and leadership skills effectively to adapt to the growing business world.

PO11 **Project Management and Finance:** Design methods and process; apply skills and knowledge to complete projects in accordance with project acceptance criteria and financial considerations.

PO12 **Lifelong Learning:** Evolve and improve as an individual by updating knowledge to enable oneself to thrive in social and professional life.

List of Board of Studies Members

Sl. No.	Category	Name Smt./Sri	Designation	Address for Communication	E-mail and Mobile No.
1	HoD & Chairman	Manjunath K R	Assistant Professor	SBRR Mahajana First Grade College, Mysore	manjunathkr.fgc@mahajana.edu.in 9448493596
2	Faculty Member	Geetha D	Assistant Professor	SBRR Mahajana First Grade College, Mysore	geethalit@rediffmail.com 9945653221
3	Two Experts from external university	1. Dr. Nataraj G	Assistant Professor	DoS in English, KSOU, Mysuru	Nataraj.g.ukkalagere@gmail.com 9741219820
		2. Dr. B.N. Shreekerthy	Assistant Professor	DoS in English, Jnanabharathi, University of Bangalore, Bengaluru	drskeerthy@gmail.com 9739012854
4	Nominee by the Vice Chancellor	Dr. Vanamala S M	Associate Professor	Mandya P G Centre, Mandya	vanamalasm861@gmail.com 9449789748
5	Alumnus	Ms. Spoorthi C S	Assistant Professor	St. Joseph's College, Hunsuru	cssporrthi@gmail.com 8867091969

Course Structure
DSC Optional English

I Year

Course Type, Course Code and Title	L : T : P	Credits	Teaching Hours per Week	Total No. of Hours	Maximum Marks			Total Marks	Exam Duration
					IA		Exam		
					C1	C2	C3		
I Semester									
211179 DSC(1) Introduction to Literature	3 : 0 : 0	3	03	42	20	20	60	100	2½
211180 DSC(2) Indian Writing in English Part - I	3 : 0 : 0	3	03	42	20	20	60	100	2½
II Semester									
211279 DSC(3) Introduction to Phonetics and Linguistics	3 : 0 : 0	3	03	42	20	20	60	100	2½
211280 DSC(4) Indian Writing in English Part - II	3 : 0 : 0	3	03	42	20	20	60	100	2½

General Objectives:

1. Explore texts and contexts of writings and readings from varied spaces in English Literature.

2. Connect liberal arts, humanities and social sciences through a multidimensional curriculum.

3. Develop the students' ability to read, process, think critically and independently.

4. Establish necessary skills of interpreting analyzing a text for a multidisciplinary approach towards higher studies and research.

5. Develop in students an inclusive outlook, inculcate ethical and moral values for a sense of social commitment.

6. Introduce multiple areas of writings in English language and translations in English.

7. Train students in skills for a relevant career in literary field – creative writing, translation and publishing.

8. To equip students with qualities of sympathy and empathy for lifelong learning.

Annexure: English Optional Syllabus

OPTIONAL ENGLISH

For Undergraduate Programs offered in
Syllabus for I Semester B A in English (Basic / Hons.)

Semester I **Course Code: 211179**	**Course Title: DSC(1) Introduction to Literature**
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week:** 03
Total Contact Hours: 42 Hours	**Formative Assessment Marks:** 40
Exam Duration: 2½ Hours	**Semester End Examination Marks:** 60

Course Outcome

CO1   Knowledge literary terms and literary devices.

CO2   Recognise structural elements of poetry, fiction and drama to analyze literary texts.

CO3   Identify techniques and creative uses of language in literary writings.

Unit –1: Introduction to Literature	
Chapter No. 1 What is literature? -Defining Literature -Why Study Literature? **Chapter No. 2** Literature and Society-Literature and Life **Chapter No. 3** Literature and Science – canon - elements of literature	14
Unit - 2 : II. **Literary Forms**	
Poetry: Lyric, Sonnet, Ballad, Epic, Elegy, Mock-Epic **Drama:** Comedy, Tragedy, Tragic-comedy, One-act-play **Prose**: Novel, Novella, Short Story, Essay, Biography, autobiography	14
Unit – 3: Literary Terms and **Figurative language**	
- Couplet, Heroic Couplet, Allegory, Alliteration, Assonance, Refrain, aside, monologue, soliloquy, meta-fiction, plot, character, setting, narrative technique. - Farce, simile, metaphor, personification, hyperbole, satire, prologue, epilogue, Art for Art's sake, Expressionism, Metre and Metrical Devices, Narratology, Romanticism, Canon. - Simile, metaphor, personification, hyperbole, onomatopoeia, euphemism, irony, oxymoron, synecdoche, understatement paradox, allusion	14

Text Books:

1. Glossary Literary Terms by M H Abrams

2. Hudson, William Henry; An Introduction to the Study of Literature New Delhi *Atlantic 2007*.

References

- Baldick, Chris. The Oxford Dictionary of Literary Terms. OUP, 2001.
- Bate, Jonathan. English Literature: A Very Short Introduction. OUP.
- Benett, Andrew. An Introduction to Literature, Criticism and Theory. Routledge.
- Eagleton, Terry. How to Read Literature. Yale University Press.
- Eaglestone, Robert. Doing English; A Guide for Literature Students. Routledge, 2000. Gopal,
- Priyamvada. The Indian English Novel; Nation History, and Narration.
- Mehrotra, Arvind, Ed; An Illustrated History of Indian Literature in English. Orient Blackswan, 2005
- Ousby, laih. Ed; The Cambridge Guide to Literature in English, Cambridge University Press. 1983
- The McGraw-Hill. Introduction to Literature
- https: //blog.reedry.com.literary.devices
- https: //oer.precsbooks.pub

Course Articulation Matrix - 211179

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	-	-	1	1	-	1	2	3	-	3
CO2	3	1	1	-	1	1	-	1	1	3	-	3
CO3	2	1	-	1	1	1	-1	3	1	3	2	3
WA	2.6	1	1	1	1	1	1	1.6	1.3	3	2	3

Formative Assessment	
Assessment Occasion/ type	**Weightage in Marks**
First Internal Test	10
Second Internal Test	10
First Class Test/Oral Test/ Assignments/ Surveys/ Interviews	10
Second Class Test/Oral Test/ Assignments/ Surveys/ Interviews	10
Total	40

Formative Assessment = 40 Marks

Term End Examination = 60 Marks

Total = 100 Marks

Question Paper Pattern
I Semester BA Optional English
(For students admitted to the First Semester in 2021-22)
Title: DSC(1) Introduction to Literature

Time: 2½ hours   Marks : 60

I. Answer TWO of the following in not more than a page and a half each: (2x10=20)
   a.
   b.
   c.
   d.

II Answer FIVE of the following in not more than a page without omitting any form –
Poetry, Drama, Prose: (5x4=20)
       a.   b.   c.
       d.   e.   f.
       g.   h.   i.

III.   Answer any TEN of the following in a sentence each: (10x1=10)
   a.
   b.
   c.
   d.
   e.
   f.
   g.
   h.
   i.
   j.

IV. Answer any TWO of the following in a page each: (2x5=10)
   a.
   b.
   c.
   d.

** *** **

Semester I **Course Code: 211180**	**Course Title: DSC(2) Indian Writing in English Part-I**
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week:** 03
Total Contact Hours: 42 Hours	**Formative Assessment Marks:** 40
Exam Duration: 2½ Hours	**Semester End Examination Marks:** 60

Course Outcome

CO1 Associate the historical trajectories of various genres of Indian Writing in English.

CO2 Implement the concepts of learning about Indian writers, their ethos and tradition of writing and discourse.

CO3 Appreciate the Indian Writing in English from various historical and social perspective.

Unit –1 History of Indian English Literature (Pre Independence Period)	
• The Nature and Scope of Indian English Literature; charges against Indian English Literature (Reference: M. K.Naik, A History of Indian English Literature (Chapters 1 and 6), New Delhi: Sahitya Akademi, 1980 • Pre-Independence Indian English Poetry, Prose, Drama and Novel • Introducing authors/texts from the pre-independence era - Raja Ram Mohan Roy, Toru Dutt, Aurobindo, Swami Vivekananda, Bankim Chandra Chattopadhyay, Mahatma Gandhi, Dr B R Ambedkar, Rabindranath Tagore, Sarojini Naidu Henry Derozio, Dean Mahomet	14
Unit – 2 Pre independence fiction	
• Selections from Mulk Raj Anand – Untouchable Raja Rao's Kanthapura, R K Narayan and Krupabai Satthianadhan	14
Unit – 3 Indian English Poetry, Short Stories and Essays	

Select Poems
     1. Toru Dutt, Our Casuarina Tree
     2. Sarojini Naidu, Coromandel Fishers
     3. Henry Derozio – To India – My Native Land
 Select Stories
     1. Mulk Raj Anand, - Barber's Trade Union
     2. Rabindranath Tagore - My Lord the Baby
     3. R. K. Narayan, - A Horse and Two Goats
 Select Essays
     1. M. K. Gandhi -The Great Sentinel
     2. Swami Vivekanand - 'Chicago Address'
     3. B. R. Ambedkar - A Childhood Journey to Koregaon
	14

Text Books

1. Naik, M. K. A History of Indian English Literature. Delhi: Sahitya Akademi, 1992.

2. Iyenger,K R S. Indian Writing in English. New Delhi. Sterling Publisher, 1984.

References

- Deshmane, Chetan, ed. Muses India: Essays on English-Language Writers from Mahomet to Rushdie. Jefferson, NC, and London: McFarland & Co., 2013.
- Iyenger,K R S. Indian Writing in English. New Delhi. Sterling Publisher, 1984.
- Makarand Paranjape (Ed) Indian Poetry in English, Madras: Macmillan, 1993
- Naik, M. K. A History of Indian English Literature. Delhi: Sahitya Akademi, 1992.
- (M. K. Naik (Ed) The Indian English Short Story: A Representative Anthology, New Delhi: Arnold-Heinemann, 1984)
- Mukherjee, Meenakshi . The Twice Born Fiction. New Delhi: Heinemann, 1971. Narasimhiah C D ed Makers of Indian English Literature, Delhi Pencraft International 2000
- Radhakrishnan, N. Indo Anglian Fiction: Major Trends and Themes. Madras: Emerald.1984
- Rao, Krishna. The Indo-Anglian Novels and the Changing Tradition. Mysore: Rao and Raghavan, 1973.
- https://www.academica.edu
- htpp://ignited.in

Course Articulation Matrix - 211180

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	1	1	1	3	1	3	1	3	1	3
CO2	3	3	1	3	1	3	1	3	1	3	2	3
CO3	3	2	2	2	1	3	1	3	1	3	1	3
WA	3	2.3	1.3	2	1	3	1	3	1	3	1.3	3

Formative Assessment	
Assessment Occasion/ type	**Weightage in Marks**
First Internal Test	10
Second Internal Test	10
First Class Test/Oral Test/ Assignments/ Surveys/ Interviews	10
Second Class Test/Oral Test/ Assignments/ Surveys/ Interviews	10
Total	40

Formative Assessment = 40 Marks

Term End Examination = 60 Marks

Total = 100 Marks

Question Paper Pattern
I Semester BA Optional English
(For students admitted to the First Semester in 2021-22)
Title: Paper – DSC(2) Indian Writing in English (Part-I)

Time: 2½ hours   Marks : 60

I. A. Answer THREE questions in a page each: **(3x5=15)**
  1.
  2.
  3.
  4. Write Short Notes on the following writers:
    i)
    ii)

B. Answer FIVE questions in a Sentence each: **(5x1=5)**
  1.
  2.
  3.
  4.
  5.
  6.
  7.
  8.

II. A Answer THREE questions in a page each without omitting any novel: **(3x5=15)**
  1.
  2.
  3.
  4.
  5.
  6.

B. Answer FIVE questions in a Sentence each: **(5x1=5)**
  1.
  2.
  3.
  4.
  5.
  6.
  7.
  8.
  9.

III. Answer FOUR questions in a page each without omitting Poetry,
Short Stories or Essays: **(4x5=20)**
  1.
  2.
  3.
  4.
  5.
  6.
  7.
  8.
  9.

** *** **

Annexure: English Optional Syllabus

OPTIONAL ENGLISH (L2)

For Undergraduate Programmes offered in
Syllabus for II Semester BA in English (Basic / Hons.)

Semester II **Course Code: 211279**	**Course Title: DSC(3)** **Introduction to Phonetics and Linguistics**
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week:** 03
Total Contact Hours: 42 Hours	**Formative Assessment Marks:** 40
Exam Duration: 2½ Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs)

CO1 Identify and acquire the basic concepts of language, linguistics and phonetics

CO2 Comprehend the use of various structures and parts of a language while communicating.

CO3 Develop fluency to speak and write with clarity and creativity through the acquired linguistic skills.

Unit –1 Introduction to Phonetics and Linguistics	
Chapter No. 1 Language- its nature, definitions, characteristic features **Chapter No. 2** Linguistics – Definitions, Scope **Chapter No. 3** Branches of Linguistics	14
Unit - 2 Phonetics and Phonology:	
Chapter No. 4. Speech Mechanism, Organs of Speech, **Chapter No.5.** Production of Speech Sounds, Classification of Speech Sounds- vowels and consonants, **Chapter No. 6.** Transcription of words, Word stress, Phonemics-phone, allophone- phoneme	14
Unit – 3 Morphology, Syntax and Semantics and Lexicon	
Chapter No. 7 Morphology - Morph-word classes: lexical categories, functional categories, the morphological properties of English verbs and building words. Allomorph – morpheme **Chapter No. 8.** Syntax - Types of Sentences – basic terminology; categories & functions, functions of clauses **Chapter No. 9.** Semantics and Lexicon – word meaning: entailment and hyponymy, meaning opposites, semantic features, dictionaries & prototypes	14

Text Books

1. Cruse, Alan. Meaning in Language. (Oxford: Oxford University Press, 2000).
2. Fromkin, V. (ed.) 2000. Linguistics: An Introduction to Linguistics. Cambridge: Blackwell.
3. Rocca, I., and W. Johnson. A Course in Phonology. (Oxford: Blackwell, 1994).

References:

- Aronoff, M., and Kirsten Fudeman. What is Morphology. (Oxford: Blackwell,2010).
- Booij, G E. The Grammr of Words: An Introduction to Linguistic Morphology. (Oxford: OUP, 2007). Catford, J. C. A Practical Introduction to Phonetics. (Oxford: Oxford University Press, 1988).
- Culicover, P. W. Principles and Parameters: An Introduction to Syntactic Theory. (Oxford: Oxford University Cruse, Alan. Meaning in Language. (Oxford: Oxford University Press, 2000).
- Fromkin, V. (ed.) 2000. Linguistics: An Introduction to Linguistics. Cambridge: Blackwell. Kenstowicz, M. 1994. Phonology in Generative Grammar. Cambridge: Blackwell.
- Goldsmith, J. (ed). Phonological Theory: The Essential Readings. (Cambridge: Blackwell, 1999). Radford, A. et al. 1999. Linguistics: An Introduction. Cambridge: Cambridge University Press. Radford, A. Transformational Grammar. (Cambridge: Cambridge University Press, 1988).
- Rocca, I., and W. Johnson. A Course in Phonology. (Oxford: Blackwell, 1994). Saeed, John I. Semantics (2nd ed). (Oxford: Basil Blackwel, 2003).
- http://ielanguages.com
- https:// all-about-linguistics group.shef.ac.uk
- https://www.expert.ai.

Course Articulation Matrix - 211279

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	1	1	-	1	1	1	1	3	-	3
CO2	3	1	1	2	1	2	1	1	2	3	1	3
CO3	3	1	1	2	3	3	1	1	3	3	1	3
WA	**3**	**1**	**1**	**1.6**	**2**	**2**	**1**	**1**	**2**	**3**	**1**	**3**

Formative Assessment	
Assessment Occasion/ type	**Weightage in Marks**
First Internal Test	10
Second Internal Test	10
First Class Test/Oral Test/ Assignments/ Surveys/ Interviews	10
Second Class Test/Oral Test/ Assignments/ Surveys/ Interviews	10
Total	40

Formative Assessment = 40 Makrs
Term End Examination = 60 Marks
Total = 100 Marks

Question Paper Pattern
II Semester BA Optional English
(For students admitted to the First Semester in 2021-22)
Title: DSC(3) Introduction to Phonetics and Linguistics

Time: 2½ hours   Marks : 60

UNIT - I
I. Answer FIVE questions in a word or a sentence each: **(5x1=5)**
   a.
   b.
   c.
   d.
   e.
   f.
   g.
   h.
II Answer THREE questions is not more than a page each: **(3x5=15)**
   a.
   b.
   c.
   d.
   e.

UNIT - II
III. Answer FIVE questions in a word or a sentence each: **(5x1=5)**
   a.
   b.
   c.
   d.
   e.
   f.
   g.
   h.
IV Answer THREE questions is not more than a page each: **(3x5=15)**
   a.
   b. Transcribe the following words
     i)   ii)   iii)   iv)   v)
   c.
   d.
   e.

UNIT - III
V. Answer FIVE questions in a word or a sentence each: **(5x1=5)**
   a.
   b.
   c.
   d.
   e.
   f.
   g.
   h.
VI. Answer THREE questions is not more than a page each: **(3x5=15)**
   a.
   b.
   c.
   d.
   e.

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Semester II	Course Title: DSC(4) Indian Writing in
Course Code: 211280	**English – Part – II**
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week:** 03
Total Contact Hours: 42 Hours	**Formative Assessment Marks:** 40
Exam Duration: 2½ Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs)

CO1 Knowledge of the growth and evolution of Indian writing in English.

CO2 Awareness Major and Minor writers and their works.

CO3 Understand the historical background ad socio-cultural ethos to respect cultural diversity.

Unit –1 History of Indian English Literature	
• Post-Independence (1947-1980) Indian English Poetry, Prose, • Post-Independence (1947-1980) Indian English drama and Novel • Post-1980s Indian English literature	14
Unit – 2 Introducing writers of the post independence era:	
• Kamala Das, Shashi Deshpande, Chaman Nahal, Manohar Malgoankar, Amitav Ghosh, K. A. Abbas, Vikram Seth, Arundathi Roy, Arun Joshi, G B Desani, T P Kailasam, Girish Karnad, • Anita Desai, Manju Kapur, Arvind Adiga, Chitra Banerjee Divakaruni, Namitha Gokhale. • Kiran Desai, Anita Nair, Mahesh Dattani, Salman Rushdie, Ruskin Bond, Jeet Thayil, Sunithi Namjoshi, Arun Kolatkar etc	14
Unit - 3 Illustrative Texts	
Poetry 1. Syed Amanuddin - Don't Call Me Indo-Anglian 2. Kamala Das- An Introduction 3. A. K. Ramanujan, Small Scale Reflections on a Great House 4. Nissim Ezekiel's Good bye Party to Miss Pushpa T S **Novel** - Kushwant Singh's Train To Pakistan **A Short Play:** Mahesh Dattani's Seven Steps Around the Fire (Stage Play)	14

Text Books

1. Naik, M. K. A History of Indian English Literature. Delhi: Sahitya Akademi, 1992.
2. Iyenger,K R S. Indian Writing in English. New Delhi. Sterling Publisher, 1984.
3. Kushwant Singh's Train To Pakistan
4. A short Play: Mahesh Dattani's Seven Steps Around the Fire (Stage Play)

References

- Ansani, Shyam M. New Dimensions of Indian English Novels, Delhi: Doaba House,1987
- Devy, G. N. After Amnesia: Tradition and Changes in Indian Literary Criticism Hyderabad: Orient Longman and Sangam Books, 1992.
- Devy, G.N. An Another Tongue: Essays on Indian English Literature, Madras: Macmillan India Ltd. 1995.
- Gandhi, Leela. Post-Colonialism, New : Oxford University Press, 2002.
- Jain, Jasbir. Beyond Postcolonialism: Dreams and Realities of a Nation, Jaipur: Rawat Publications, 2006.
- Makarand Paranjape (Ed) Indian Poetry in English, Madras: Macmillan, 1993
- (M. K. Naik (Ed) The Indian English Short Story: A Representative Anthology, New Delhi: Arnold-Heinemann, 1984)

  Mukherji, Meenakshi . The Twice Born Fiction. New Delhi: Heinemann, 1971.
  Vishwanathan, G. Masks of Conquest: Literary Study and British Role in India. New

Course Articulation Matrix - 211280

COs / POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	-	-	1	1	1	-	2	1	3	-	3
CO2	3	1	-	-	1	1	1	2	1	3	1	3
CO3	3	1	2	2	1	3	1	3	1	3	1	3
WA	3	1	2	1	1	1.6	1	2.3	1	3	1	3

Formative Assessment

Assessment Occasion/ type	Weightage in Marks
First Internal Test	10
Second Internal Test	10
First Class Test/Oral Test/ Assignments/ Surveys/ Interviews	10
Second Class Test/Oral Test/ Assignments/ Surveys/ Interviews	10
Total	40

Formative Assessment = 40 Makrs

Term End Examination = 60 Marks

Total = 100 Marks

Question Paper Pattern
II Semester BA Optional English
(For students admitted to the First Semester in 2021-22)
Title: DSC(4) Indian Writing in English (Part – II)

Time: 2½ hours   Marks : 60

UNIT - I

I. Answer FIVE questions in a word or a sentence each: **(5x1=5)**
   a.
   b.
   c.
   d.
   e.
   f.
   g.
   h.

II. Answer THREE questions is not more than a page each: **(3x5=15)**
   a.
   b.
   c.
   d.
   e.

UNIT - II

I. Answer FIVE questions in a word or a sentence each: **(5x1=5)**
   a.
   b.
   c.
   d.
   e.
   f.
   g.
   h.

II. Answer THREE questions is not more than a page each: **(3x5=15)**
   a.
   b.
   c.
   d.

UNIT - III

I. Answer TWO questions in not more than a page each: **(2x5=10)**
   a.
   b.
   c.
   d.

II. Answer ONE question in not more than a page each: **(1x5=5)**
   a.
   b.

III. Answer ONE question in not more than a page each: **(1x5=5)**
   a.
   b.

** *** **

English Syllabus 2021-22
Board of Studies

Sl. No.	Name and address	Designation	Signature
01	Manjunath K R HoD – Department of English SBRR Mahajana First Grade College Mysuru manjunathkr.fgc@mahajana.edu.in	Chairman	K.R. Manjunath 20-12-2021
02	Dr. Vanamala S M Associate Professor Mandya P G Centre Mob. 9449789748 Vanamalasm861@gmail.com	Member	S.M.Vanamala
03	Dr. Nataraj G Assistant Professor DoS in English, KSOU, Mysuru Mob. 9741219820 nataraj.g.ukkalagcre@gmail.com	Member	
04	Dr. B.N. Shreekeerthy Assistant Professor DoS in English Jnanabharathi, University of Bangalore, Bengaluru Mob. 9739012854 drskeerthy@gmail.com	Member	
05	Smt. Geetha D Assistant Professor Department of English SBRR Mahajana First Grade College, Mysuru Mob. 9945653221 geethalit@rediffmail.com	Member	Dgeetha
06	Ms. Spoorthi C S Assistant Professor St. Joseph's College, Hunsuru Mob. 8867091969 csspoorthi@gmail.com	Member	Absent.

K R Manjti
Chairperson
BOS/BOE in English
Mahajana First Grade College

Mahajana Education Society (R.)
Education to Excel

SBRR MAHAJANA FIRST GRADE COLLEGE (Autonomous)

Jayalakshmipuram, Mysuru – 570 012
Affiliated to University of Mysore Re-accredited by NAAC with 'A' Grade
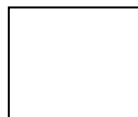College with Potential for Excellence

BOARD OF STUDIES (BoS)

DEPARTMENT OF ENVIRONMENTAL SCIENCE

UG ✓

PG

NEP Syllabi for I and II Semester Environmental Studies (AECC)

2021-22

DEPARTMENT OF ENVIRONMENTAL SCIENCE

Motto
Environmental Education for
Sustainable Life

Vision

To sensitize the people about environmental

protection, conservation and equitable use of

resources for sustainable livelihood

Mission
To develop a positive action for improving the environment
using a practical approach based on observations

Program Outcome (PO) Attributes

PO1	Domain Knowledge
PO2	Problem Analysis
PO3	Design and Development of Solutions
PO4	Investigation & Research
PO5	Use of Modern Techniques/Tools
PO6	Impact on Society
PO7	Environment and Sustainability
PO8	Moral and Ethical Values
PO9	Individual and Team Work with Time Management
PO10	Communication
PO11	Project Management and Finance
PO12	Life-long Learning

List of BoS members

Sl. No.	Category	Name & Designation	Address for Communication	e-Mail & Mobile No.
1	Chairperson	Smt. Sunitha MH Assistant Professor and HoD	Department of Environmental Science SBRR Mahajana First Grade College (A), Jayalakshmipuram, Mysuru - 12	sunithamh.fgc@mahajana.edu.in 9663679317
2	Two Experts from Other University	Dr.Shivaraju H Puttaiah Assistant Professor and Aacademy coordinator	Course Coordinator, Environmental Sciences, JSS academy of higher education & research, JSS University, Mysore	shivarajuenvi@gmail.com 8277102057
3		Dr. R.G. Sharathchandra Assistant Professor and HoD	Department of Studies and research in Environmental Science, Tumkur University,Tumkur	rgschandra@gmail.com 8095502894
4	Nominee bythe Vice Chancellor	Dr N.S.Raju Professor and Chairman	Post graduation Department of Studies in Environmental Science, Manasagangothri, Mysore	nsrajuenv@yahoo.com 9448345959
5	Alumnus	Praphul.G Junior research biologist - Conservation Biology	Salim Ali Centre for Ornithology and Natural History. Anaikatty P.O., Coimbatore 641108, Tamil Nadu, India	Praphulgopal.btr@gmail.com 9483902056

Course Structure (NEP)

ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)

I Year

Course Type, Code and Title		Hours/ Week		Credits	Maximum Marks			Exam Duration	Total
					IA		Exam		
		L	T/P	L: T:P	C1	C2	C3		Marks
Environmental Studies– I/II Sem									
AECC	BA/BCA/BSc/BCom/BBA : 21EVSF26	2	-	2:0:0	10	10	30	1hr 30 mins	50

ABILITY ENHANCEMENT COMPULSORY COURSE:AECC for All Courses

NOTE: This Papers will be handled by the Department of Environmental Science for all I /II Semester B.Com./B.B.A/B.Sc/B.A./BCA/BBA (H&H)/BBA (A&Intl.T)

AECC Module

Course Code: 21EVSF26	**Course Title: Environmental Studies**
Course Credits: 02 (2:0:0)	**Hours of Teaching/Week:** 2 Hour (Theory)
Total Contact Hours: 45 Hours (Theory) 5 Hours (Field visit)	**Formative Assessment Marks:** 20
Exam Duration: 1 Hour 30 Minutes(Theory)	**Semester End Examination Marks:** 30

COURSE OUTCOMES (COs):

CO 1: Imbibe ecological perspective and value of environment, along with significance of various natural resources and its management.

CO 2: Analyze and Implement biodiversity techniques and pollution concepts.

CO 3: Analyze global environmental problems and design possible solutions for sustainable development.

Content of ENVIRONMENTAL STUDIES – AECC		45 Hours
Unit 1	**Introduction to Environmental Studies**	**2**
	Multidisciplinary nature of environmental studies Scope and importance; Concept of sustainability and sustainable development.	
Unit 2	**Ecosystems**	**6**
	Ecosystem - Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession. Case studies of the following ecosystems: a) Forest ecosystem, b) Grassland ecosystem, c) Desert ecosystem, Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)	
Unit 3	**Natural Resources: Renewable and Non-Renewable Resources**	**8**
	Land resources and land-use change; Land degradation, soil erosion and desertification. Deforestation: Causes and impacts due to mining, dam building	

	on environment, forests, biodiversity and tribal populations.	
	Water: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state). Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies.	
Unit 4	**Biodiversity and Conservation**	**8**
	Levels of biological diversity: Genetic, species and ecosystem diversity; Biogeographic zones of India; Biodiversity patterns and global biodiversity hot spots. India as a mega-biodiversity nation; Endangered and endemic species of India. Threats to biodiversity: Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity. Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.	
Unit 5	**Environmental Pollution**	**8**
	Environmental pollution: types, causes, effects and controls; Air, water, soil and noise pollution, Nuclear hazards and human health risks Solid waste management, Control measures of urban and industrial waste Pollution case studies.	
Unit 6	**Environmental Policies & Practices**	**7**
	Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture. Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act. International agreements: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD). Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context	
Unit 7	**Human Communities and the Environment**	**6**
	Human population growth: Impacts on environment, human health and welfare. Resettlement and rehabilitation of project affected persons; case studies.	

	Disaster management: floods, earthquake, cyclones and landslides.	
	Environmental movements: Chipko, Silent valley, Bishnois of Rajasthan	
	Environmental ethics: Role of Indian and other religions and cultures in environmental conservation	
	Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi).	
Unit 8	**Field work**	**5**

Reference

Bharucha, E. (2015). *Text book of Environmental Studies*. Carson, R. (2002).

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Gleeson, B. and Low, N. (eds.) (1999). *Global Ethics and Environment*, London,

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Nandini,N., SunithaN., & SucharitaTandon.(2019). *A textbook on Environmental Studies (AECC)*. Sapna Book House, Bengaluru.

Odum, E.P., Odum, H.T. & Andrews,J.(1971). *Fundamentals of Ecology*. Philadelphia: Saunders.

Pepper, I.L, Gerba, C.P. & Brusseau, M.L. (2011). Env*ironmental and PollutionScience*. Academic Press.

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Raven, P.H., Hassenzahl, D.M. & Berg, L.R. (2012). *Environment.* 8th Edition. John Wiley & Sons.

Rosencranz,A., Divan,S., & Noble,M.L. (2001). *Environmental law and policy in India.*

Sengupta, R. (2003). *Ecology and economics: An approach to sustainable development.* OUP.

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Wilson, E. O. (2006). *The Creation: An appeal to save life on Earth.* New York:Norton.

World Commission on Environment and Development.(1987). *Our Common Future .* Oxford University Press .

Websites:
https://www.nature.com

https://frontiersin.org

https://www.goodnet.org

https://www.springer.com

https://cpcb.nic.in

Course Articulation Matrix - 21EVSF26

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12
CO1	3	1	-	1	1	2	3	2	1	2	-	3
CO2	3	2	1	2	2	2	3	3	2	2	1	3
CO3	3	2	1	1	2	2	3	3	3	2	1	3
Wt. Avg.	3	1.6	1	1.3	1.6	2	3	2.6	2	2	1	3

Continuous Formative Evaluation/Internal Assessment

Total marks for each course shall be based on continuous assessments and semester end examinations. The pattern is 20:30 for IA and Semester End Theory Examinations respectively.

	THEORY
Total Marks	50 Marks
Continuous Assessment – 1 (C1)	10 Marks
Continuous Assessment – 2 (C2)	10 Marks
Semester End Examination (C3)	30 Marks

Evaluation Process of IA Marks shall be as follows:

a) The first component (C1) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, project work etc. This assessment and score process should be completed after completing 50% of syllabus of the course and within 45 working days of semester program.

b) The second component (C2) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, internship/industrial practicum/project work, quiz etc. This assessment and score process should be based on completion of remaining 50% of syllabus of the course of the semester.

c) During the 17th – 19th week of the semester, a semester end examination shall be conducted by the college for each course. This forms the third and final component of assessment (C3) and the maximum marks for the final component will be 60%.

d) In case of a student who has failed to attend the C1 or C2 on a scheduled date, it shall be deemed that the student has dropped the test. However, in case of a student who could not take the test on scheduled date due to genuine reasons, such a candidate may appeal to the Program Coordinator/Principal. The Program Coordinator/Principal in consultation with the concerned teacher shall decide about

the genuineness of the case and decide to conduct special test to such candidate on the date fixed by the concerned teacher, but before commencement of the concerned semester end examinations.

e) For assignments, tests, case study analysis etc., of C1 and C2, the students should bring their own answer scripts (A4 size), graph sheets etc., required for such tests/assignments and these be sealed/signed by the concerned department at the time of conducting tests/assignment/project work etc.

f) The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) of a course shall be as under:

	C1 Marks	C2 Marks	Total Marks
Session Test	10	-	10
Seminar/Presentation/Assignment/Activity /Case Study/Field Work/Project Work/Quiz etc.	-	10	10
Total	10	10	20

g) The marks of the internal assessment shall be published on the notice board of the department/college for information of the students.

h) The internal assessment marks shall be communicated to the CoE at least 10 days before the commencement of the examinations and the CoE shall have access to the records of such periodical assessments.

i) There shall be no minimum in respect of internal assessment marks.

j) Internal assessment marks may be recorded separately. A candidate who has failed or rejected the result, shall retain the internal assessment marks.

AECC Theory Question Paper Pattern

Max. Marks: 30 Marks   **Exam Duration:** 1hr 30 mins

Instructions: Paper Setting

• The Question Paper is divided into 3 parts: Part – A, Part – B and Part -C.
• Part – A: Should consist of 10 Questions (Define/Explain).
• Part – B: Should consist of 4 Questions (for short answers).
• Part – C: Should consist of 2 Questions (for essay type) where internal split is permitted.

PART – A
I Answer any EIGHT Questions. Each Question carries 1 Mark.   8Q X 1M = 08Marks

1.
2.
3.
4.
5.
6.
7.
8.
9.
10.

PART – B

II Answer any THREE Questions. Each Question carries 4 Marks.   3Q X 4M = 12 Marks

11.
12.
13.
14**.**

PART – C

III Answer any ONE Question. Each Question carries 10 Marks.   1Q X 10M = 10 Marks

15.

16.

---***---

Signature:
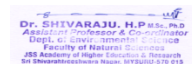
1.   2.   3.

(Sunitha.M.H)   (Dr.N.S.Raju)   **(H.P Shivaraju)**

4.   5.

(Dr. R.G. Sharathchandra)   (Praphul.G)

Mahajana Education Society (R.)

Education to Excel

SBRR MAHAJANA FIRST GRADE COLLEGE (Autonomous)

Jayalakshmipuram, Mysuru – 570 012

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BOARD OF STUDIES (BoS)

DEPARTMENT OF GEOGRAPHY

UG ✓

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NEP Syllabi for I and II Semester B.A. Geography

2021-22

DEPARTMENT OF GEOGRAPHY

MOTTO

Down to Earth Awareness

VISION

To make a centre of excellence in Geographic information for a balanced development

MISSION

To spread the awareness of Geographic base and to Develop Geographic consciousness among younger Generations for understanding and creating a healthier Physical and Cultural Environment.

Program Outcomes (POs) for Bachelor of Arts

POs	Details of the Programme Outcomes (POs)
PO1	**Domain Knowledge:** Inculcation of fundamental concepts, principles, methods and the application of the same in the realm of concerned domain.
PO2	**Problem Analysis:** This programme enhances the ability to define, identify and analyze appropriate means towards amicable solutions in the given area of Knowledge.
PO3	**Design & Development of Solutions:** Structuring theoretical knowledge and developing customized designs in terms of – Intervention strategies, Profiling, Reviews, Archives, Marketing strategies, Info-graphics and Approaches for arriving at relevant and desirable solutions.
PO4	**Research & Investigation**: Knowledge and application of "Research Methods" to investigate domain specific problems and derive scientific conclusions through testing of Hypotheses and relevant findings empirically.
PO5	**Usage of Modern Tools and Techniques:** Mastery in the academic enclave through skilled handling administering, assessing, validating and interpreting complex phenomena using advanced tools and techniques to create simple and sustainable solutions.
PO6	**Social Sciences & Society –** Promotes domain specific literacy to illuminate the significance of each discipline and its applicability for the well-being of Society.
PO7	**Environment and Sustainability:** Contemplate and Introspect prevailing environmental challenges and consequences. Further, channelize initiatives towards sustainability.
PO8	**Moral and Ethical Values:** Application of Professional Ethics, Humanitarian Values, Accountability and Social Responsibilities in emerging society towards attainment of harmony and co-existence.
PO9	**Individual and Teamwork:** Imbibe the qualities of Teamwork and function effectively as an emerging leader in the diversified and multidisciplinary areas.
PO10	**Communication:** Demonstrates Competency in comprehending and conceptualizing discipline specific concepts and ideas and communicates effectively through fluid communication within the professional and social setup.
PO11	**Economics and Project Management:** Understand the Economic Concept in the context of specific discipline and apply the same through initiating Planning, and Executing the Project Dynamics effectively towards successful Project Management.
PO12	**Lifelong Learning**: Identify and address their own educational needs in a changing world in ways sufficient to upgrade one's skills and competencies through constant self-evaluation and eternal learning.

List of BoS Members

Sl. No	Category	Name & Designation	Address for Communication	E-mail & Mobile No.
1	Chairperson	**Dr.K.K.Somashekara** Assistant Professor & HoD	Department of Geography SBRR Mahajana FirstGrade College (A), Jayalakshmipuram,Mysuru-12	somashekarkk.fgc@mahajana.edu.in Mobile: 9035456449
2	Member	**Dr. Doddarasaiah. G** Assistant Professor	Department of Geography SBRR Mahajana FirstGrade College (A), Jayalakshmipuram,Mysuru-12	gdurs2014@gmail.com Mob: 8892963344
3	Member	**Siddaraju. C. S** Assistant Professor	Department of Geography SBRR Mahajana FirstGrade College (A), Jayalakshmipuram,Mysuru-12	sidducs1981@gmail.com Mob: 9141481046
4	Nominee bythe Vice Chancellor	**Dr. H. Nagaraj** Professor	Registrar (Evaluation), Karnataka University, Dharwad	Nagarajh66@yahoo.com Mob: 9448939134
5	Experts from OtherUniversity	**Dr. C. Mallanna** Assistant Professor	Department of Geography, KLE Society Lingaraju College (Autonomous) College Road, Belagavi	mallannac@gmail.com Mob: 9480555474
6	Experts from OtherUniversity	**Dr. Srinivas** Assistant Professor	Department of Geography Govt. First Grade College, Vijayanagara, University of Bangalore, Bengaluru	yadavaniseena@gmail.com Mobile: 9845286949
7	Alumnus	**Ms. Sreeja** Assistant Teacher	Excel Public School ,Koorgalli Industrial Area, Belwadi Post, Mysuru, Karnataka 570018	shree-shreeja@yahoo.com Mobile -7204220808
8	One Person from Industry/ Corporate Sector/Allied Area	**Ravi. R.** Global Agency	# 471, D.Subbaiah Road, K.R.Mohalla, Near Ramaswamy Circle, Mysuru-570004	ravi_coop1978@yahoo.com Mobile: 9900143297

Year-wise Structure (NEP 2020): Geography

Discipline Specific Courses (DSC) and Open Elective (OE)

I Year

Course Type, Code and Title		Hours/Week		Credits	Maximum Marks IA		Exam	Exam Duration	Total
		L	T/P	L:T:P	C1	C2	C3		Marks
Geography – I Sem									
DSC(1)	Principles of Geomorphology-211144	4	0	4:0:2	20	20	60	$2\frac{1}{2}$Hours	150
DSC(1)-Lab	Principles of Geomorphology Practical	0	4		10	15	25	3 Hours	
OE(1)	**(Any one to be opted)** 1.Introduction to Physical Geography 21OEGEO101 2.Fundamentals of Remote sensing 1OEGEO102	3	0	3:0:0	20	20	60	$2\frac{1}{2}$Hours	100
Geography – II Sem									
DSC(2)	Introduction to Climatology - 211244	4	0	4:0:2	20	20	60	$2\frac{1}{2}$Hours	150
DSC(2)-Lab	Introduction to Climatology Practical	0	4		10	15	25	3 Hours	
OE(2)	**(Any one to be opted)** 1.Human of Geography 21OEGEO201 2. Basics of Geographic Information Systems 21OEGEO202	3	0	3:0:0	20	20	60	$2\frac{1}{2}$Hours	100

Syllabus DSC (1) Syllabus for B.A. Geography (Basic and Honors)

Semester I

Course Code: 211144	**Course Title:** Principles of Geomorphology (Theory) Geomorphology (Practical)
Course Credits: 06 (4:0:2)	**Hours of Teaching/Week:** 04 (Theory) + 04 (Practical)
Total Contact Hours: 56 Hours (Theory) 56 Hours (Practical)	**Formative Assessment Marks:** 40 (Theory) 25 (Practical)
Exam Duration: $2\frac{1}{2}$ Hours (Theory) 3 Hours (Practical)	**Semester End Examination Marks:** 60 (Theory) 25 (Practical)

Course Outcomes (COs)

1. Acquire the knowledge of fundamental concepts and the essential principles of Geomorphology.
2. Knowledge of systems and cycles of the solid Earth, crustal mobility and tectonics.
3. Describe the dynamics of Earth related to folds, faults, earthquakes volcanoes and associated landforms.
4. Identify and interpret the evolution of landforms and agents of denudation.

Course Content

Content	Hours
UNIT - 1 Geomorphology	
Introduction to geography: physical and human geography Introduction to Geomorphology: meaning, nature, development, and scope Principles of Geomorphology Geological Time Scale Distribution of continents and oceans	**14**
UNIT – 2 Systems and Cycles of the Solid Earth	
Internal structure of the earth Alfred Wegener's continental drift Theory Theory of Isostacy: Views of Pratt and Airy Convectional current theory and concept of sea floor spreading Theory of Plate Tectonics: plate boundaries, subduction. **Case Studies:** Volcano, Earthquake: reporting of latest incidents	**14**

UNIT – 3 The Dynamics of Earth	
Earth's Movements: Endogenetic and Exogenetic forces, Sudden and Diastrophic movements- Epeirogenetic and Orogenic Movements-Process of folding and faulting, Vulcanicity and earthquake	**14**
Rocks: Characteristics, types, importance, and rock cycle Weathering: meaning, types and controlling factors	
Mass Movement: meaning, controlling factors, types-landslides, rock-falls	

UNIT - 4 Evolution of Landforms	
Evolution of Landforms: meaning, types and factors controlling landforms development Slope development: concept and types	**14**
Concept of Cycle of Erosion–W.M. Davis and W. Penck	
Agents of Denudation: river; drainage patterns, groundwater, Sea waves, Wind and Glaciers and resultant landforms.	
Application of geomorphology: in India and Karnataka (Regional planning, Urban planning and transportation, Mining, Hazard management, Agriculture and Environmental management).	

References
1. Ahmed E. (1985) Geomorphology, Kalyani Publishers, New Delhi.
2. Bloom A.L. (1978) Geomorphology: A Systematic Analysis of Late Cenozoic Landforms Prentice – Hall of India, New Delhi.
3. Brunsden D. (1985) Geomorphology in the Service of Man: The Future of Geography, Methnen, U.K.
4. Chorley, R.J., Schumm, S. A. and Sugden, D.E. 1984: Geomorphology, Methuen,London
5. Cooke, R.U. and Warren, 1973: Geomorphology in Deserts, Batsford, London
6. Dayal, P. 1996: Textbook of Geomorphology, Shukla Book Depot, Patna.
7. Goudar M B, Physical Geography (Kannada Version)
8. Goudie Anrew et.al. (1981) Geomorphological Techniques, George Allen & Unwin, London.
9. Homes A. (1965) Principles of Physical Geology, 3rd Edition, ELBSS Edn.
11. Hugar M R Physical Geography part 1(Kannada Version)

12. Kolhapure and S S Nanjan, Physical Geography (Kannada Version)

13. Nanjannavar S S: Physical Geography (Kannada Version)

14. P Mallappa, Physical Geography (Kannada Version)

15. Ranganath Principles of Physical Geography (Kannada Version)

14. Strahler A.N. (1968) The Earth Sciences, Harper & Row Intl. Edn, New York

16. Thornberry W.D. (1969) Principles of Geomorphology 2nd Edition, Wiley Intl. Edn. & Wiley,1984.

17. Verstappen H. (1983) Applied Geomorphology, Geomorphological Surveys for Environmental Development, Elsevier, Amsterdam

Reference Websites

http://www.solarviews.com/eng/earth.htm

http://www.moorlandschool.co.uk/earth/tectonic.htm

https://www.usgs.gov/

https://www.ksndmc.org/

Geomorphology Practical

Content of Practical Course 1: List of Experiments to be conducted

Exercise-1:

Identification of Rocks and Minerals:

Mineral samples: Iron ore, Bauxite ore and Manganese

Rock Samples: Granite, Basalt, Lime Stones, Sandstone, quartzite and marble

Exercise-2:

Extraction and interpretation of Geomorphic information from Topographical maps

Exercise-3:

Preparation of contour map from toposheet, Construction of Relief Profiles-serial, Super imposed, Projected & Composite.

Exercise-4:

Slope Analysis: Slope Maps (Wentworth method), Slope calculation and conversion (Isotan and Isosin) and aspect maps & Hypsometric curve and integral

Exercise-5:

Drainage Morphometry: Delineation of watershed, stream ordering and Morphometric analysis: mean stream length, drainage density and drainage frequency.

Field Work:

Measurement of channel cross-sections in the field, Geomorphic map of channel bed, Study of erosional and depositional features in the field.

Case Study:

Students must be taken to observe local land formation and degradation and write a report on their effectiveness.

Course Articulation Matrix-211144

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	2	2	1	2	1	1	2	-	1	1	-	2
CO2	2	1	1	2	1	1	2	-	1	1	-	2
CO3	2	2	1	2	1	1	2	-	1	1	-	2
CO4	2	2	1	-	-	-	2	-	1	1	-	1
Weighted Average	**2**	**1.75**	**1**	**2**	**1**	**1**	**2**	**-**	**1**	**1**	**-**	**1.75**

OE(1) Geography Syllabus for All Programs(Except Arts)

Semester I

Course Code: 21OEGEO101	**Course Title: Introduction to Physical Geography**
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week:** 3 Hours (Theory)
Total Contact Hours: 42 Hours (Theory)	**Formative Assessment Marks:** 40
Exam Duration: $2\frac{1}{2}$ Hours (Theory)	**Semester End Examination Marks:** 60

Course Outcomes (COs):
1. Acquire the knowledge of structure and movement of the earth.
2. Analyze the interior and exterior aspects of earth sciences.
3. Analyze and interpret atmospheric phenomena.
4. Examine and describe the structure, composition and nature of water bodies.

Course Content

UNIT – 1	10 HOURS

Origin, Shape and Size of the Earth,
Movement of the Earth- Rotation and Revolution, Effects of the movement of Earth,
Coordinates -Latitude, Longitude and Time.
Structure of the Earth,

UNIT – 2	12 HOURS

Rocks - types, significance, Weathering – types.
Agents of Denudation - River, Glacier, Wind and Under Ground water.
Volcanicity, Earthquakes and Tsunamis

UNIT – 3	10 HOURS

Structure and Composition of Atmosphere, Weather and Climate.
Atmospheric Temperature, Heat Budget of the atmosphere Atmospheric Pressure, Winds and Precipitation

UNIT – 4	10 HOURS

Distribution of Land and Sea, Submarine Relief of the Ocean, Temperature and salinity of Sea Water.
Ocean Tides, Waves and Deposits, Ocean currents - Atlantic, Pacific and Indian Oceans.
Marine Resources: Biotic, mineral and energy resources

References

1. B.S. Negi (1993) Physical Geography. S.J. Publication, Meerut

2. D.S. Lal (1998) Climatology. Chaitnya publishing house, Allahabad

3. K. Siddhartha (2001) Atmosphere, Weather and Climate. Kisalaya publication, New Delhi

4. R.N. Tikka (2002) Physical Geography. Kedarnath Ramnath & co, Meerut.

5. Willian D. Thornbury (1997) Principle of Geomorphology. New
Age,International (Pvt.Ltd.) New Delhi.

Reference Websites

1. http://www.physicalgeography.net
2. https://www.geography.com
3. https://libguides.tru.ca › physicalgeography › websites
4. https://www.nationalgeographic.org › activity › reason
5. https://www.gale.com › physical-geography

Course Articulation Matrix- 21OEGEO101

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1	-	1	2	2	3	1	2	1	-	3
CO2	3	2	2	2	2	2	3	2	2	2	2	3
CO3	3	2	1	1	1	2	3	2	1	1	-	3
CO4	3	2	1	1	-	2	3	2	1	1	-	3
Weighted Average	**3.66**	**2.33**	**1.33**	**1.25**	**1.66**	**2**	**3**	**2.33**	**1.5**	**1.25**	**2**	**3**

OE(1) Geography Syllabus for All Programs(Except Arts)

Semester I

Course Code: 21OEGEO102	**Course Title: Fundamentals of Remote Sensing**
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week:** 3 Hours (Theory)
Total Contact Hours: 42 Hours (Theory)	**Formative Assessment Marks:** 40
Exam Duration: $2\frac{1}{2}$ Hours (Theory)	**Semester End Examination Marks:** 60

Course Outcomes:

1. Demonstrate the basic concepts and impart necessary skills of remote sensing

2. Analyze sensing and recording reflected or emitted energy and processing it.

3. Analyze and interpret remotely sensed satellite images on the Earth surface.

4. Comprehend the concepts of Remote sensing and describe its practical significance.

Course Content

UNIT - 1 Introduction	10 HOURS

Definition of Remote Sensing, developmental stages, Laws of Physics,

electromagnetic waves, spectrum, regions, wavelength, frequencies,

and applications. Types-Satellites, Sensors, Payloads, Orbits, telemetry of satellites.

UNIT - 2 Process and types of Remote Sensing	10 HOURS

Process of remote sensing, interaction of radiation with atmosphere and targets,

atmospheric noises, attenuation in radiance, resolutions of remote sensing,

optical remote sensing, visible region of the spectrum, thermal remote sensing,

micro wave remote sensing, Hyper spectral remote sensing, LiDAR, and other remote

sensing Platforms.

UNIT - 3 Image Classification and Interpretation	10 HOURS

Satellite products and its spectral characteristics, composite images, band ratios;

Land use land cover classification schemes-Anderson and NRSC;Visual image interpretation, elements, stages of interpretation and interpretation keys.

Image classification- supervised, unsupervised, and principal component analysis (PCA) and accuracy assessment.

UNIT – 4 Applications of Remote Sensing	12 HOURS

Disaster Management, Meteorological Studies, Agricultural and Irrigation Studies,

Forestry Studies, Hydrological Studies, Natural Resource,

Oceanic and Coastal mapping, Soil resource mapping,

Urban and Rural Mapping and Management.

Reference

1. Image processing and GIS for remote sensing: techniques and applications; Second Edition (2016) - Liu, Jian-Guo, Mason, Philippa J
2. Introduction to Remote Sensing and Image Interpretation (2003); Lillesand T.M. Introduction to Remote Sensing, Fifth Edition (2011); James B. Campbell, Randolph H.Wynne
3. Introductory Digital Image Processing: A Remote Sensing Perspective, Fourth Edition(2015) - John R. Jensen
4. Practical handbook of remote sensing, First Edition (2016) - Lavender, Andrew, Lavender, Samantha
5. Remote Sensing and GIS, Second Edition (2011), Bhatta, B.
6. Remote sensing and image interpretation (2015); Chipman, Jonathan W., Kiefer, Ralph W., Lillesand
7. Remote Sensing of the Environment: An Earth Resource Perspective (Prentice HallSeries in   Geographic Information Science) - Second Edition (2006), John Jensen

Reference Websites

1. https://onlinecourses.nptel.ac.in/noc19_ce41/preview
2. http://www.rsi.ca
3.
http://www.earthsat.com
4. http://www.cr.usgs.gov
5. http://edc.usgs.gov/

Course Articulation Matrix- 21OEGEO102

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	3	2	3	2	2	2	2	2	2	3
CO2	2	2	3	2	2	2	3	-	1	1	1	2
CO3	2	2	2	2	2	1	2	-	1	1	1	2
CO4	3	2	3	2	2	2	3	1	2	1	2	3
Weighted Average	2.25	2.25	2.75	2	2.25	2.33	2.50	1.5	1.5	1.25	1.5	2.5

Scheme of Valuation for Practical Examination-I Semester

C1 and C2 are internal tests to be conducted during 8th and 16th weeks respectively of the semester. C3 is the semester-end examination conducted for 3 hours. The student will be evaluated on the basis of procedure development and its execution. The student has to compulsorily submit the practical record for evaluation during C2. For C3, the record has to be certified by the Head of the Department.

- The student is evaluated for 25 marks in C1 and C2 as per the following scheme:Part-A Practical Exercises (C1): 10 marks
- Part-B Practical Exercises (C2): 10 marks + Record: 05 marks = 15 marks
- The student is evaluated for 25 marks in C3 as per the following scheme:

Identification of Minerals and rocks	04 marks
Extraction and Interpretation of Topographical maps	04 marks
Preparation of Contour maps from toposheet	04 marks
Slope Analysis	04 marks
Drainage Morphometry	04 marks
Field work /Case study assessment (Viva)	05 marks
Total	**25 marks**

Syllabus DSC (2) Syllabus for B.A. Geography (Basic and Honors)

Semester II

Course Code: 211244	**Course Title:** Introduction to Climatology (Theory) Climatology (Practical)
Course Credits: 06 (4:0:2)	**Hours of Teaching/Week:** 04 (Theory) + 04 (Practical)
Total Contact Hours: 56 Hours (Theory) 56 Hours (Practical)	**Formative Assessment Marks:** 40 (Theory) 25 (Practical)
Exam Duration: $2\frac{1}{2}$ Hours (Theory) 3 Hours (Practical)	**Semester End Examination Marks:** 60 (Theory) 25 (Practical)

Course Outcomes (COs):

1. Acquire the knowledge of climatology, structure and composition of atmosphere.

2. Analyze the dynamics of the Earth's atmospheric phenomena

3. Understand the nature and impact of the atmospheric pressure and winds.

4. Determine & describe the atmospheric cycle and factors associated with atmospheric changes.

Course Content:

Content	Hours
UNIT – 1 Composition and Structure of the Atmosphere	**14**
Nature and Scope of Climatology, Atmospheric Sciences; Climatology and Meteorology Origin and structure of the Atmosphere: Troposphere, Stratosphere, Mesosphere, Ionosphere, Exosphere and their characteristics. Composition of the atmosphere Weather and Climate.	
UNIT – 2 Atmospheric Temperature	**14**
Isolation: Definition, Mechanism, Solar Constant. Factors affecting the Insolation: Angle of incidence, length of the day, Sunspots, Distance between the earth and the sun, effect of the atmosphere. Heating and cooling process of the atmosphere- Radiation, Conduction, convection, and advection. **Temperature**: meaning and Influencing Factors on the Distribution of Temperature Distribution of the temperature: Vertical, Horizontal, and Inversion of temperature. Global Energy Budget: Incoming shortwave solar radiation, Outgoing Long wave **Terrestrial radiation, Albedo. Net Radiation and Latitudinal Heat Balances.**	

UNIT – 3 Atmospheric Pressure and Winds	14

Atmospheric Pressure: Influencing factors on atmospheric pressure. Vertical and Horizontal Distribution of the atmospheric pressure and Pressure Belts, Pressure Gradient.

Tri-cellular-Hadley, Ferrell's and Polar Cells.

Winds: influencing factors, Types - planetary, seasonal, local wind Variable winds-Cyclones and anti-cyclones.

Air-Masses and Fronts: Definition, Nature, Source Regions, Classification.

Unit – 4 Atmospheric Moisture	14

Humidity: Sources, influencing factors and types-Absolute, Relative and Specific. Hydrological cycle: process of evaporation, condensation. Clouds and its types Precipitation and its forms.

Climate Change: Causes and consequences, recent issues-floods, drought,

References

1. Lal, D. S. (1998). Climatology. Allahabad: Chaitanya Publishing House.
2. P Mallappa, Physical Geography (Kannada Version)
3. Ranganath Principles of Physical Geography (Kannada Version)
4. Nanjannavar S S: Physical Geography (Kannada Version)
5. Hugar M R Physical Geography part 1(Kannada Version)
6. Goudar M B, Physical Geography (Kannada Version)
7. Kolhapure and S S Nanjan, Physical Geography (Kannada Version)
8. Lutgens, Frederic K. & Tarbuck, Edward J. (2010). The Atmosphere: An Introductionto Meteorology. New Jersey: Pearson Prentice Hall.
9. Oliver, John E. & Hidore, John J. (2003). Climatology: An Atmospheric Science.Delhi: Pearson Education.
10. Singh, S. (2005). Climatology. Allahabad: Prayag Pustak Bhawan.
11. Barry, R.G. and Chorley, R.J. (2003): Atmosphere, Weather and Climate; Psychology Press, Hove; East Sussex.
12. Critchfield, H.J., (1975): general Climatology, Prentice Hall, New Jersey.
13. Mather,J.R.(1974): Climatology: Fundamentals and Applications; Mc Craw Hill BookCo., U.S.A.
14. Rumney, G.R. (1968): Climatology and the World Climates, Macmillan, London.
15. Trewartha, G.T. (1980): An Introduction to Climate; McGraw Hill, New York, 5thedition, (International Student Edition)

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1. https://earthobservatory.nasa.gov/
2. https://mausam.imd.gov.in/
3. https://www.weatheronline.in/
4. https://earthexplorer.usgs.gov/
5. https://www.nhc.noaa.gov/satellite.php

DSC(2)-LAB

Climatology Practical

Content of Practical Course 1: List of Experiments to be conducted

Conduct all exercises with Goal, Procedure, devices, and findings.

Exercise 1: Understanding Structure and functions of the Indian Meteorological Department (IMD).

Exercise 2: Collection of climatic data from IMD website-

https://mausam.imd.gov.in/bengaluru/.

Exercise 3: Plotting of downloaded climatic data using graphical methods-Elementary Instrumental Observation:

Exercise 4: Centigrade and Fahrenheit thermometer for measuring temperature.

Exercise 5: Mercurial Barometer and Aneroid Barometer for measuring atmospheric Pressure

Exercise 6: Wind Vane and cup-anemometer.

Exercise 7: Wet and Dry bulb thermometer for measuring humidity

Exercise 8: Rainguage- Dial type for measuring rainfall Exercise 3: Rainfall Trend Analysis.

Exercise 9: Interpretation of Indian Daily Weather charts.

Exercise 10: Deriving water balance chart, Actual and potential evapotranspiration

Note: Students are expected to download weather charts of the four seasons.

Course Articulation Matrix - 211244

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	1	-	1	2	3	1	-	1	-	2
CO2	2	2	1	-	1	2	3	1	-	1	-	2
CO3	3	2	1	1	2	2	3	1	1	1	-	2
CO4	2	2	1	1	1	2	2	1	1	1	-	2
Weighted Average	**2.25**	**2**	**1**	**1**	**1.25**	**2**	**2.75**	**1**	**1**	**1**	**-**	**2**

OE(2) Geography Syllabus for All Programs(Except Arts)

Semester II

Course Code: 21OEGEO201	**Course Title: Introduction to Human Geography**
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week:** 3 Hours (Theory)
Total Contact Hours: 42 Hours (Theory)	**Formative Assessment Marks:** 40
Exam Duration:$2\frac{1}{2}$ Hours (Theory)	**Semester End Examination Marks:** 60

Course Outcomes (COs):

1. Comprehend the evolution, approaches and development of Human Geography.

2. Understand the geographical analysis of population dynamics and migration.

3. Determine and introspect the concept of culture, cultural diffusion, factors, pattern and process of realm.

4. Analyze and describe the Economic activities and human settlements.

Course Content

UNIT - 1 Introduction to Human Geography	10 HOURS

Nature and scope, Development Environmental Determinism and Possiblism, Neo determinism (stop and go-determinism)

Approaches to human geography: Exploration and Descriptive approach, regional analysis Approach, Areal Differentiation Approach, Spatial organization Approach.

Modern approaches: Welfare or Humanistic Approach, Radical Approach, Behavioral Approach,

Post Modernism in geography
Fields and sub fields in Human geography

UNIT - 2 Geographical Analysis of Population	10 HOURS

Distribution and Growth of Population
Density of population: meaning and Types: Arithmetic Density and Physiological Density. Regional distribution of Density of Population.

Population Movement: Migration, Raventein's Law of Migration, Factors of population Migration, Economic Push and Pull factors, Cultural Push and Pull Factors, Environmental Push and Pull Factors. Migration Types: Immigration and Emigration, Internal and International Migration

UNIT - 3 Cultural Patterns and Processes	10 HOURS

Concept of Culture, Material and Non material culture

Cultural Regions, cultural Traits and Complexes, cultural Hearths, cultural Diffusion.

Languages of the World: Types, Classification and Distribution.

Religions: Types and Classification. Distribution.

Universalizing Religions: Christianity, Islam, Buddhism. Ethnic Religions: Hinduism, the Chinese religion, Shintoism, Judaism.

The Major tribal population of the world.

UNIT –4.Human Economic Activities, Development and Settlements	12 HOURS

Primary Economic Activities – Agriculture, Types: Primitive Subsistence, Intensive subsistence, Plantation Agriculture, Extensive Commercial grain cultivation, Mixed Farming, Dairy Farming

Secondary Activities: Manufacturing, classification – based on size – Small Scale and Large scale. Based on Raw material – Argo-based, Mineral based, Chemical Based and Forest based. Industrial Regions of the world.

Tertiary Activities: Types: Trade and commerce, Retail Trading services, Wholesale trading. Transport and communications: Factors, communication services – Telecommunication.

Services: Informal and Non formal sector. Information technology and service.

Human Settlements: Factors, Classification, Types and Patterns: Rural, Urban. Compact or Nucleated and Dispersed settlements. Rural settlement Patterns: linear, rectangular, circular, star shaped, T shaped.

References

1. Hartshorne, T. A., & Alexander, J. W. (2010). Economic Geography. New Delhi: PHI Learning.

2 .Knox, P., Agnew, J., & McCarthy, L. (2008). The Geography of the World Economy. London: Hodder Arnold.

3 .Lloyd, P., & Dicken, B. (1972). Location in Space: A Theoretical Approach to Economic Geography. New York: Harper and Row.

4. Siddhartha, K. (2000). Economic Geography: Theories, Process and Patterns, NewDelhi: Kisalaya Publications.

5. Smith, D. M. (1971). Industrial Location: An Economic Geographical Analysis, NewYork: John Wiley and Sons.

Reference Websites

1.https://open.umn.edu ›

2.https://sccollege.edu ›

3.https://web.ung.edu ›

4.https://oer.galileo.usg.edu ›

5.https://geography.wisc.edu ›

6.https://www.pdfdrive.com ›

7.https://old.amu.ac.in ›

Course Articulation Matrix- 21OEGEO201

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1	1	1	-	1	2	1	-	-	-	2
CO2	2	2	1	1	1	2	2	2	1	1	2	2
CO3	2	2	1	1	-	2	2	1	-	-	1	3
CO4	3	2	2	1	-	2	2	2	1	1	1	3
Weighted Average	**2.25**	**1.75**	**1.25**	**1**	**1**	**1.75**	**2**	**1.5**	**1**	**1**	**1.33**	**2.5**

OE(2) Geography Syllabus for All Programs(Except Arts)

Course Code: 21OEGEO202	**Course Title: Basics of Geographic Information Systems (GIS**
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week:** 3 Hours (Theory)
Total Contact Hours: 42 Hours (Theory)	**Formative Assessment Marks:** 40
Exam Duration:$2\frac{1}{2}$Hours (Theory)	**Semester End Examination Marks:** 60

Course Outcomes:

1. Acquiring the knowledge of concept development components and functions of GIS
2. Analyze the theoretical concepts in a practical way through the mathematical models of geography.
3. Understand the various modes of data collection and scale.
4. Solve geographical problems through the preparation of thematic maps.

Course Content

UNIT - 1 Introduction	10 HOURS

Emergence of GI Science, Milestone and Developmental stages in GIS, Definition, scope,role of GIS in digital world; Components, functionalities, merits and demerits, global market, interdisciplinary domains, and its integration with GIS.

UNIT - 2 Geodesy and Spatial Mathematics	10 HOURS

Cartesian coordinates, latitude, longitudes, formats of angular units, geographical coordinates,

Datum: WGS84, vs NAD32. UTM, Aerial Distance measurement using Geographic and projected coordinates, Area, Perimeter, length by coordinates and various international measures.

UNIT - 3 GIS Data and Scale	10 HOURS

Spatial Data and its structures; sources and types of data collection; data errors, topology of data and relationship. Large Scale vs Small Scale, generalization; precision and accuracy of data-logical consistency and non-spatial data integration

UNIT –4. Geo processing and Visualization	12 HOURS

Spatial and Non-Spatial Queries, proximity analysis, Preparation of Terrain and Surface models. Hotspot and density mapping. Types of maps, thematic maps and Its types, relief maps, flow maps and cartograms. Tabulations: Graphs and Pivot tables

References

1. An Introduction to Geographical Information Systems - Ian Heywood (2011)
2. Geographic Information Systems and Cartographic Modelling - Tomlin, C.D. (1990)
3. Geographic Information Systems and Environmental Modelling - Clarke, C., K. (2002)
4. Geographic Information Systems and Science - Paul A. Longley, et. al. (2015)
5. Geographic Information Systems: A Management Perspective - Aronoff, S. (1989)
6 GIS - Fundamentals, Applications, and Implementations - Elangovan, K. (2006)
7. Introduction to Geographical Information Systems - Chang, Kang-Tsung (2015)
8. Mathematical Modeling in Geographical Information System, Global Positioning System and
9. Digital Cartography - Sharma, H.S. (2006)
10. Remote Sensing and GIS - Bhatta, B. (2011)
11 Spatial analysis and Location-Allocation Models - Ghosh, A. and G. Rushton (1987)

Reference Websites

1. IIRS MOOC programme: https://isat.iirs.gov.in/mooc.php
2. ITC Netherlands, Principles of GIS
3. https://webapps.itc.utwente.nl/librarywww/papers_2009/general/principlesgis.pdf
4. Geographical Information Systems: Principles, Techniques, Management and Applications
5..https://www.geos.ed.ac.uk/~gisteac/gis_book_abridged/

Course Articulation Matrix- 21OEGEO202

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	3	2	3	2	2	1	2	1	2	3
CO2	2	2	2	2	3	2	2	1	1	1	2	2
CO3	2	2	2	2	2	1	2	1	1	1	2	3
CO4	2	2	3	2	3	2	3	1	2	1	2	3
Weighted Average	**2**	**2**	**2.5**	**2**	**2.75**	**1.75**	**2.25**	**1**	**1.5**	**1**	**2**	**2.75**

Continuous Formative Evaluation Internal Assessment/Exams
I & II Semester

Total marks for each course shall be based on continuous assessments and semester end examinations. The pattern is 40:60 for IA and Semester end Theory Examinations respectively and 50:50 for IA and Semesterend Practical Examinations respectively.

	THEORY	PRACTICAL
Total Marks	100 Marks	50 Marks
Continuous Assessment – 1 (C1)	20 Marks	10 Marks
Continuous Assessment – 2 (C2)	20 Marks	15 Marks
Semester End Examination (C3)	60 Marks	25 Marks

Evaluation Process of IA Marks shall be as follows:

a) The first component (C1) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, project work etc. This assessment and score process should be completed after completing 50% of syllabus of the courses and within 45 working days of semester program

b) The second component (C2) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, internship/industrial practicum/project work, quiz etc.
   This assessment and score process should be based on completion of remaining 50% of syllabus of the course of the semester.

c) During the 17th – 19th week of the semester, a semester end examination shall be conducted by the college for each course. This forms the third and final component of assessment (C3) and the maximum marks for the final component will be 60%.

d) In case of a student who has failed to attend the C1 or C2 on a scheduled date, it shall be deemed that the student has dropped the test. However, in case of a student who could not take the test on scheduled date due to genuine reasons, such a candidate may appeal to the Program Coordinator/Principal. The Program Coordinator/Principal in consultation with the concerned teacher shall decide about the genuineness of the case and decide to conduct special test to such candidate on the date fixed by the concerned teacher, but before commencement of the concerned semester end examinations.

e) For assignments, tests, case study analysis etc., of C1 and C2, the students should bring their own answer scripts (A4 size), graph sheets etc, required for such tests/assignments and these be sealed/signed by the concerned department at the time of conducting tests/assignment /project work etc.

f) The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) of a course Shall be as under:

	C1 Marks	C2 Marks	Total Marks
Session Test	10	10	20
Seminar/Presentation/Assignment/Activity	10		10
Case Study/Field Work/Project Work/Quiz etc.		10	10
Total	20	20	40

- For practical course of full credits, seminar shall not be compulsory. In its place, marks

  shall be awarded for Practical Record Maintenance (the ratio is 25 (10 + 15):25).

- Conduct of Test, Seminar, Case study/Assignment etc., can be either in C1 or in C2

  component as decided by the college and concerned department/teacher.

- The teachers concerned shall conduct test/seminar/case study etc., The students should be informed about the modalities well in advance. The evaluated courses assignments during component I (C1) and component II (C2) of assessment are immediately provided to the candidates after obtaining acknowledgement in the register by the concerned teacher(s) and maintained by the Department. Before commencement of the semester end examination, the evaluated test, assignment etc., of C1 and C2 shall be obtained back to maintain them till the announcement of the results of the examination of the concerned semester.

g) The marks of the internal assessment shall be published on the notice board of the department/college for information of the students.

h) The internal assessment marks shall be communicated to the CoE at least 10 days before the commencement of the examinations and the CoE shall have access to the records of such periodical assessments.

i) There shall be no minimum in respect of internal assessment marks.

J Internal assessment marks may be recorded separately. A candidate who has failed or rejected the result, shall retain the internal assessment marks.

Scheme of Valuation for Practical Examinations-I&II Semester

C1 and C2 are internal tests to be conducted during 8th and 16th weeks respectively of the semester. C3 is the semester-end examination conducted for 3 hours. The student will be evaluated on the basis of procedure development and its execution. The student has to compulsorily submit the practical record for evaluation during C2. For C3, the record has to be certified by the Head of the Department.

The student is evaluated for 25 marks in C1 and C2 as per the following scheme:

Part-A Practical Exercises (C1): 10 marks

Part-B Practical Exercises (C2): 10 marks + Record: 05 marks = 15 marks

The student is evaluated for 25 marks in C3 as per the following scheme:

Assessment Criteria	Marks
Indian Meteorological Department (IMD) Maps	04
Meteorological Instruments	04
Precipitation measuring Maps	04
Indian Weather Maps	04
Water Balance & Evapotranspiration Charts	09
Total	**25**

DSC Theory and OE Question Paper Pattern

B.A GEOGRAPHY (For I and II Semester) 2022 Onwards

Exam Duration: $2\frac{1}{2}$ Hours   **Max. Marks: 60**

Part-A

I. Answer any Four of the following questions.   **4X3=12**

1)……………………………………………………………………………………………
2)……………………………………………………………………………………………
3)……………………………………………………………………………………………
4)……………………………………………………………………………………………
5)……………………………………………………………………………………………
6)……………………………………………………………………………………………

Part-B

II. Answer any Three of the following questions.   **3X6=18**

7)…………………………………………………………………………………………..
8)…………………………………………………………………………………………..
9)……………………………………………………………………………………………
10)……………………………………………………………………………………………
11)……………………………………………………………………………………………

Part –C

III. Answer any Three of the following questions.   **3X10=30**

12)……………………………………………………………………………………………
13)……………………………………………………………………………………………
14)……………………………………………………………………………………………
15)……………………………………………………………………………………………

DSC Theory Question Paper Pattern

Max. Marks: 60 Marks   **Exam Duration:** $2\frac{1}{2}$ Hours

Instructions: Paper Setting
The Theory exam shall be conducted for 60 Marks and it consists of 3 Sections namely

- The Question Paper is divided into 3 parts: Part – A, Part – B and Part- C
- Section A, Section B, Section C with internal choices. (Short, Medium and Long answer questions).
- Section A - Each question carries 3 marks and student has to answer 4 out of 6 questions.
- Section B - Each question carries 6 marks and student has to answer 3 out of 5 questions, and
- Section C - Each question carries 10 marks and student has to answer 3 out of 4 questions.

Open Elective Theory Question Paper Pattern

Max. Marks: 60 Marks   **Exam Duration:** $2\frac{1}{2}$ Hours

Instructions: Paper Setting

The Theory exam shall be conducted for 60 Marks and it consists of 3 Sections namely

- The Question Paper is divided into 3 parts: Part – A, Part – B and Part- C

- Section A, Section B, Section C with internal choices. (Short, Medium and Long answer questions).

- Section A - Each question carries 3 marks and student has to answer 4 out of 6 questions.

- Section B - Each question carries 6 marks and student has to answer 3 out of 5 questions, and

- Section C - Each question carries 10 marks and student has to answer 3 out of 4 questions.

DEPARTMENT OF HINDI

MOTTO/लक्ष्य
हिन्दी के माध्यम से एकता
Unity Through Hindi

VISION/दृष्टि
निज भाषा उन्नति अहै,सब उन्नति को मूल।

बिन निजभाषा ज्ञान के, मिटत न हिय को सूल॥
Progress Through Language

MISSION/कार्य
- भाषा के शुद्ध एवं सही ज्ञान के साथ संप्रेषण क्षमता को बढाना।
- भाषा एवं साहित्य के विविध आयामों को विद्वानों के व्याख्यानों द्वारा समझाना।
- देश एवं समाज के प्रति सक्षम नागरिक बनाने की ओर कार्यरत रहना।

Program Outcomes (POs) for Bachelor of Science/Arts/Commerce/Management

PO 1: Domain Knowledge

PO 2: Problem Analysis

PO 3: Design and Development of Solutions

PO 4: Investigation & Research

PO 5: Use of Modern Techniques/Tools

PO 6: Impact on Society

PO 7: Environment and Sustainability

PO 8: Moral and Ethical Values

PO 9: Individual and Team Work with Time Management

PO 10: Communication

PO 11: Project Management and Finance

PO 12: Life-long Learning

Objectives: HINDI LANGUAGE

Course Learning Outcomes

- Hindi was adopted as an official Language in Indian Constitution with Devanagari Script.
- Students are going to learn as a Language and they will know about Hindi Literature and writers of Hindi.
- Students will learn better Communication Skills through different types of Hindi Literature and Usage of Language.
- In the era of Globalization Students will get good opportunity for Livelihood through better Hindi Communicative Skills.
- By reading Hindi Literature Students will adopt moral values, life skills. Ethics.

- भारतीय संविधान ने देवनागरी लिपी में लिखित हिन्दी को राजभाषा के रूप में स्वीकृती दी है।
- विद्यार्थी हिन्दी को एक भाषा के रूप में अध्ययन करके अलग-अलग लेखकों के साहित्य पढ़ते हैं।
- तत्परिणाम भाषा के प्रयोग में नवीनता अपना सकते हैं और संप्रेषण की क्षमता बढाते हैं।
- वैश्वीकरण के संदर्भ में शुद्ध हिन्दी के प्रयोग एवं संप्रेषण की क्षमता के कारण विद्यार्थी अपने जीवन में अच्छे मौके पाते हैं।
- अलग-अलग लेखकों के विचार प्रधान लेख को पढ़ने के कारण पात्रों का विश्लेषण की पद्धती, नैतिक मूल्य, आदर्श,जीवन में अपनाने की प्रेरणा मिलती है।

List of BoS Members 2021-22

1	HoD	Shri Parameshwar Hegde	Assistant Professor	Mahajana First Grade College	**pggejjehegde @rediffmail.com** **9449679747**
2	Nominee by the Vice Chancellor	Dr. Prathibha Mudliar	**Prof in Hindi** **Department of Studies in Hindi Manasagangotri** **University of Mysore.**	**Department of Studies in Hindi Manasagangotri**	919611368670
3	Two Experts from Outside the University	Dr. Shridhar Hegde	**Prof in Hindi & Head of the Department**	**Department of Hindi** **Field Marshal K.M Kariyappa College Madikeri**	**Shridharhegde1970 @gmail.com** **9449584354**
		Shri. Padmanabha A. N	**Prof in Hindi & Head of the Department**	**D.V.S Arts and Science College Shivmogga.577201**	**Principal.dvscollege @gmail.com** **9611011509** **College-08182-278455**
4	Alumni	Shri. Pankaj Mishra	**MICA**	**Metagalli Industrial Area MYSORE**	**pankajmishra33015 @gmail.com**

Course Structure (NEP)
AECC (Hindi)
I Year

Course Type (AECC) NEP		HOURS /WEEK		CREDITS			MARKS			Duration of Exam	Total Marks
		L	T	L	T	P	IA		EXAM		
							C1	C2	C3		
HINDI I SEM											
AECC-1	Hindi Kahani and grammar **B.Com/BBA(All) – 21HIN106**										
AECC-1	Hindi Kahani and grammar **BCA/BSc - 21HIN107**	2	2	2:1:0			20	20	60	2½ Hours	100
AECC-1	Hindi Kahani and grammar **BA - 21HIN108**										
HINDI II SEM											
AECC-2	Hindi Gadya our Vyavaharik Hindi **B.Com/BBA(All) – 21HIN206**										
AECC-2	Hindi Kavita our Anuvad **BCA/BSc- 21HIN207**	2	2	2:1:0			20	20	60	2½ Hours	100
AECC-2	**Laghu Upanyas & Prayojanmulak Hindi BA - 21HIN208**										

AECC(1) HINDI Syllabus for B.Com/BBA(All)

Semester I

Course Code: 21HIN106	**Course Title:** AECC(1) Hindi Kahani and grammar (Theory)
Course Credits: 02 (2:1:0)	**No. of Teaching Hours/Week:** 02 Hours (Theory) 02 Hours (Tutorials)
Total Contact Hours: 32 Hours (Theory) 32 Hours (Tutorials)	**Formative Assessment Marks:** 40
Exam Duration: 2½ Hours (Theory)	**Semester End Examination Marks:** 60 (Theory)

Course Outcomes (COs):

CO1: Knowledge of Short Stories as a form of Literature, familiarity with Socio-Economic disparity and identity good character trait for day to day life.

CO2: Accept divergent opinions to build strong intrapersonal Skills personality and professionally.

CO3: Understand the pluralistic nature of Society, respect other people's values and traditions to live in harmony.

CO4: Enhanced Skills in grammar for better LSRW (Listening, Speaking, Reading, and Writing.

Course Content:

Content	Hours
UNIT – 1	
प्रेमचन्द- परीक्षा. मोहन राकेश- मवाली धर्मवीर भारती- एक बच्ची की कीमत	**12**
UNIT – 2	
सुदर्शन- अलबम ममता कालिया-बोलने वाली औरत महीम सिंह- पानी और पुल	**14**
UNIT – 3	
भीष्म साहनी- चीफ की दावत जयप्रकाश कर्दम- नो बार	**12**
UNIT – 4	
1. Varnamala,Varno ka bhed - svara,vyanjan,visarga. 2. Shabdha Vichar-Uthpathi, Vyutpathi,Prayog. hours 3. Sanjya-Paribhasha,bhed, 1 hour 4. Sarvanam- Paribhasha,bhed. 1 to 2 hours 5. Ling- Paribhasha, bhed.Shabho ke Ling Parivarthan. 6. Karak	**16**

Activity:

विद्यार्थियों को पाठ पढ़ाना, सप्ताह में एक दिन समाप्त किये गये पाठ का सार लिखकर कक्षा मे पढ़ना (संगोष्ठी),पाठ का संदेश लिखना, शुद्ध हिन्दी लिखना (कार्यशाला) ।   **10**

Text Book:
कहानी कुंज-सं-राजेन्द्र पोवार

Recommended Books:
- हिंदी व्याकरण- कामताप्रसाद गुरु – प्रभात प्रकाशन, दिल्ली
- हिंदी व्याकरण रचना –संपा- गो,मो. दाभोळकर, अशोक कामत- प्रकाशन- गुरुकुल प्रकाशऩ पुणे
- शिक्षार्थी व्याकरण- प्रो, नागप्पा- राजपाल एण्ड सन्स- दिल्ली
- https://www.youtube.com/watch?v=nrYr7lpwqqs

Course Articulation Matrix – 21HIN106

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	1	2	1	1	1	2	1	3	2	3	1	2
CO 2	1	2	1	1	1	2	1	3	2	3	1	2
CO 3	1	2	1	1	1	2	1	3	2	3	1	2
CO 4	1	2	1	1	1	1	1	-	1	3	1	2
Weighted Average	1	2	1	1	1	1.75	1	2.22	1.25	3	1	2

AECC(1) HINDI Syllabus for BCA/ BSc

Semester I

Course Code: 21HIN107	Course Title: AECC(1) Hindi Kahani and grammar (Theory)
Course Credits: 02 (2:1:0)	No. of Teaching Hours/Week: 02 Hours (Theory) 02 Hours (Tutorials)
Total Contact Hours: 32 Hours (Theory) 32 Hours (Tutorials)	Formative Assessment Marks: 40
Exam Duration: 2½ Hours (Theory)	Semester End Examination Marks: 60 (Theory)

Course Outcomes (COs):

CO1: Knowledge of Short Stories as a form of Literature, familiarity with Socio-Economic disparity and identity good character trait and gender sensitised..

CO2: Appreciate the richness of Indian tradition:Understand the Psychological conflict and instill the spirit of nationalism.

CO3: Empathise with aged people and develop a more humane approach towards the needy.

CO4: Enhanced Skills in grammar for better LSRW (Listening, Speaking, Reading, and Writing.

Course Content:

Content	Hours
UNIT – 1	
चन्द्रधर शर्मा "गुलेरी"-बुद्धऊ का काँटा. प्रेमचन्द-पूस की रात, विश्वंम्बरनाथ शर्मा "कौशिक-ताई,	**12**
UNIT – 2	
जयशंकर प्रसाद-पुरस्कार, जैनेन्द्र-पाजेब, यशपाल- परदा.	**14**
UNIT – 3	
उषा प्रयंवदा-वापसी रांगेय राघव-पंच परेमेश्वर	**12**
UNIT – 4	
1. Varnamala,Varno ka bhed-svara,vyanjan,visarga. 2. Shabdha Vichar-Uthpathi, Vyutpathi,Prayog. hours 3. Sanjya-Paribhasha,bhed, 1 hour 4. Sarvanam- Paribhasha,bhed. 1 to 2 hours 5. Ling- Paribhasha, bhed.Shabho ke Ling Parivarthan. 6. Karak	16

Activity:
विद्यार्थियों को पाठ पढ़ाना, सप्ताह में एक दिन समाप्त किये गये पाठ का सार लिखकर कक्षा मे पढ़ना (संगोष्ठी),पाठ का संदेश लिखना, शुद्ध हिन्दी लिखना (कार्यशाला) ।   **10**

Text Book:
कथा अष्टक-डॉ रीता गौड़

Recommended Books:
- हिंदी व्याकरण- कामताप्रसाद गुरु – प्रभात प्रकाशन, दिल्ली
- हिंदी व्याकरण रचना –संपा- गो,मो. दाभोळकर, अशोक कामत- प्रकाशन- गुरुकुल प्रकाशन पुणे
- शिक्षार्थी व्याकरण- प्रो, नागप्पा- राजपाल एण्ड सन्स- दिल्ली
- https://www.youtube.com/watch?v=nrYr7lpwqqs

Course Articulation Matrix –21HIN107

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	1	2	1	1	1	2	1	3	2	3	1	2
CO 2	1	2	1	1	1	2	1	3	2	3	1	2
CO 3	1	2	1	1	1	2	1	3	2	3	1	2
CO 4	3	2	1	1	1	1	1	-	1	3	1	2
Weighted Average	**1.5**	**2**	**1**	**1**	**1**	**1.75**	**1**	**2.22**	**1.25**	**3**	**1**	**2**

AECC(1) HINDI Syllabus for BA

Semester I

Course Code: 21HIN108	**Course Title:** AECC(1) Hindi Kahani and grammar (Theory)
Course Credits: 02 (2:1:0)	**No. of Teaching Hours/Week:** 02 Hours (Theory) 02 Hours (Tutorials)
Total Contact Hours: 32 Hours (Theory) 32 Hours (Tutorials)	**Formative Assessment Marks:** 40
Exam Duration: 2½ Hours (Theory)	**Semester End Examination Marks:** 60 (Theory)

Course Outcomes (COs):

CO1: Knowledge of Short Stories as a form of Literature, familiarity with Socio-Economic disparity and identity good character trait and gender sensitised..

CO2: Appreciate the richness of Indian tradition:Understand the Psychological conflict and instill the spirit of nationalism.

CO3: Empathise with aged people and develop a more humane approach towards the needy.

CO4: Enhanced Skills in grammar for better LSRW (Listening, Speaking, Reading, and Writing.

Course Content:

Content	Hours
UNIT – 1	
चन्द्रधर शर्मा "गुलेरी"-उसने कहा था. जयशंकर प्रसाद- गुण्डा, प्रेमचन्द-कफ़न	**12**
UNIT – 2	
सच्चिदानन्द हीरानन्द वात्सायन 'अज्ञेय ', भीष्म साहनी-चीफ की दावत. उषा प्रयंवदा-वापसी	**14**
UNIT – 3	
ज्ञान रंजन- पिता सुशीला टाकभौरे-सिलिया	**12**
UNIT – 4	
1.Varnamala,Varno ka bhed-svara,vyanjan,visarga. 2.Shabdha Vichar-Uthpathi, Vyutpathi,Prayog. hours 3.Sanjya-Paribhasha,bhed, 1 hour 4.Sarvanam- Paribhasha,bhed. 1 to 2 hours 5.Ling- Paribhasha, bhed.Shabho ke Ling Parivarthan. 6.Karak	**16**

Activity:

विद्यार्थीयों को पाठ पढ़ाना, सप्ताह में एक दिन समाप्त किये गये पाठ का सार लिखकर कक्षा मे पढ़ना (संगोष्ठी),पाठ का संदेश लिखना, शुद्ध हिन्दी लिखना (कार्यशाला) ।   **10**

Text Book:
कहानी कीरीट-डॉ उषा पाठक. डॉ.अचका पाण्डेय

Recommended Books:
- हिंदी व्याकरण- कामताप्रसाद गुरु – प्रभात प्रकाशन, दिल्ली
- हिंदी व्याकरण रचना –संपा- गो,मो. दाभोळकर, अशोक कामत- प्रकाशन- गुरुकुल प्रकाशन पुणे
- शिक्षार्थी व्याकरण- प्रो, नागप्पा- राजपाल एण्ड सन्स- दिल्ली
- https://www.youtube.com/watch?v=nrYr7lpwqqs

Course Articulation Matrix – 21HIN108

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	1	2	1	1	1	2	1	3	2	3	1	2
CO 2	1	2	1	1	1	2	1	3	2	3	1	2
CO 3	1	2	1	1	1	2	1	3	2	3	1	2
CO 4	3	2	1	1	1	1	1	-	1	3	1	2
Weighted Average	1.5	2	1	1	1	1.75	1	2.22	1.25	3	1	2

AECC(2) HINDI Syllabus for B.Com/BBA(All)

Semester II

Course Code: 21HIN206	**Course Title:** AECC(2) Hindi Gadya Our Vyavaharik Hindi (Theory)
Course Credits: 02 (2:1:0)	**No. of Teaching Hours/Week:** 02 Hours (Theory) 02 Hours (Tutorials)
Total Contact Hours: 32 Hours (Theory) 32 Hours (Tutorials)	**Formative Assessment Marks:** 40
Exam Duration: 2½ Hours (Theory)	**Semester End Examination Marks:** 60 (Theory)

Course Outcomes (COs):

CO1: Familiarly with Socio-economic disparity, identity good character traits for character building.

CO2: Learn to accept divergent opinions to build strong intrapersonal skills personally and professionally.

CO3: Understand the pluralistic nature of Society; respect other people's values and live in harmony.

CO4: Enhance skills in usage of grammar for formal communication-both written and oral.

Course Content:

Content	Hours
UNIT – 1	
निबंध -बनाम लार्ड कर्जन,- बालमुकुन्द गुप्त कहानी -बडे घर की बेटी आत्म कथा- अपनी खबर	**12**
UNIT – 2	
यात्रा वृत्तांत-शांतिनिकेतन-राहुल सांकृत्यायन रेखाचित्र –चीनी फेरीवाला-महादेवी वर्मा निबन्ध- दीपावली पर्व पर-विद्यानिवास मिश्र	**14**
UNIT – 3	
जीवनी-लमही में जन्म एवं अन्तिम बीमारी-अमृतराय डायरी-हाशिये पर कुछ नोट्स-गजानन माधव मुक्तिबोध	**12**
UNIT – 4	
संविधान में हिंदी- संक्षिप्त परिचय, सरकारी कार्यालयों में हिंदी का प्रयोग, व्यावासयिक पत्र लेखन- शिकायती पत्र, पूछताछ संबंधि पत्र, आवेदन पत्र, बीमा संबंधि पत्र, एजन्सी संबधी पत्र	**16**

Activity:

विद्यार्थियों को पाठ पढ़ाना, सप्ताह में एक दिन समाप्त किये गये पाठ का सार लिखकर कक्षा मे   पढ़ना
(संगोष्ठी),पाठ का संदेश लिखना, शुद्ध हिन्दी लिखना (कार्यशाला) ।   **10**

Text Book:
गद्य मंजूशा- डॉ राजकुमार सिंह परमार

Recommended Books:
- राजभाषा हिंदी राजकीय पत्रव्यवहार – डॉ. घनश्याम अग्रवाल, जयभारती प्रकाशन, माया प्रेस रोड, इलाहाबाद-3
- https://dfccil.com/upload/1_Constitutional_provision_of_official_language.pdf
- https://www.youtube.com/watch?v=7xUTguLaaXI

Course Articulation Matrix – 21HIN206

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	2	1	1	1	2	1	3	2	3	1	2
CO 2	2	2	1	1	1	2	1	3	2	3	1	2
CO 3	2	2	1	1	1	2	1	3	2	3	1	2
CO 4	3	2	1	1	1	1	1	-	1	3	1	2
Weighted Average	2.25	2	1	1	1	1.75	1	2.22	1.25	3	1	2

AECC(2) HINDI Syllabus for BCA/BSc

Semester II

Course Code: 21HIN207	**Course Title:** AECC(2) Hindi Kavita Aur Anuvada Abhyas (Theory)
Course Credits: 02 (2:1:0)	**No. of Teaching Hours/Week:** 02 Hours (Theory) 02 Hours (Tutorials)
Total Contact Hours: 32 Hours (Theory) 32 Hours (Tutorials)	**Formative Assessment Marks:** 40
Exam Duration: 2½ Hours (Theory)	**Semester End Examination Marks:** 60 (Theory)

Course Outcomes (COs):

CO1: Awareness of the richness of Indian tradition and culture; Imbibe values for life-long character shaping.

CO2: Strong decision making skills with a vision for clear goal setting.

CO3: Insight into the current Socio-political and economic situation of the Society; reverence for struggle and sacrifice o the freedom fighters.

CO4: Ability to use learns skills as as mechanism for better communication; Adopt values in life for Harmonious living.

Course Content:

Content	Hours
UNIT – 1	
मैथिलीशरण गुप्त- भारत की श्रेष्ठता. सुमित्रानंदन पंत- बापू सूर्यकांत त्रिपाठी निराला- तोडती पत्थर.	**12**
UNIT – 2	
केदारनाथ अग्रवाल- यह धरती है उस किसान की हरिवंशराय बच्चन- पथ की पहचान सुभद्राकुमारी चौहान- झाँसी* की रानी	**14**
UNIT – 3	
भवानी प्रसाद मिश्र- गीतफरोश नागार्जुन- प्रेत का बयान	**12**
Unit-4	
Translation -अनुवद अभ्यास- 1.कार्यालय आलेखन और टिप्पण, 2.अनुवाद अभ्यास कन्नड/ अंग्रेजी से हिंदी, हिंदी से कन्नड या अंग्रेजी में अनुवाद	**16**

Activity:

विद्यार्थियों को पाठ पढ़ाना, सप्ताह में एक दिन समाप्त किये गये पाठ का सार लिखकर कक्षा मे पढ़ना (संगोष्ठी),पाठ का संदेश लिखना, शुद्ध हिन्दी लिखना (कार्यशाला) ।   **10**

Text Book:

पद्य संचयन-Ed- **Sushama Agraval**

Recommended Books:
- Anuvaad Vigyan- Bholanatha Tiwari, Shabdkar, Delhi,110092
- Anuvaad kala-Kuch vichar- by Anand Prakash Khemani, S.Chand & Co., New Delhi.
- Anuvaad Siddhant aur samsyayen: R.N.Srivastav and K.K. Goswami, Alok Prakashan, Delhi.
- https://www.youtube.com/watch?v=68MiLy_-VOc

Course Articulation Matrix –21HIN207

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	2	1	1	1	2	1	3	2	3	1	2
CO 2	2	2	1	1	1	2	1	3	2	3	1	2
CO 3	2	2	1	1	1	2	1	3	2	3	1	2
CO 4	3	2	1	1	1	1	1	-	1	3	1	2
Weighted Average	2.25	2	1	1	1	1.75	1	2.22	1.25	3	1	2

AECC(2) HINDI Syllabus for BA

Semester II

Course Code: 21HIN208	**Course Title:** AECC(2) Laghu Upanyas & Prayojanmulak Hindi (Theory)
Course Credits: 02 (2:1:0)	**No. of Teaching Hours/Week:** 02 Hours (Theory) 02 Hours (Tutorials)
Total Contact Hours: 32 Hours (Theory) 32 Hours (Tutorials)	**Formative Assessment Marks:** 40
Exam Duration: 2½ Hours (Theory)	**Semester End Examination Marks:** 60 (Theory)

Course Outcomes (COs):

CO1: Awareness of the richness of Indian family system.tradition and culture; Imbibe values for life-long character shaping.

CO2: Strong decision making skills with a vision for clear goal setting.

CO3: Insight into the current Socio-political and economic situation of the Society; reverence for family struggle and overcome.

CO4: Ability to use learns skills as mechanism for better communication; Adopt values in life for Harmonious living.

Course Content:

Content	Hours
UNIT – 1	
काली आँधी- कमलेश्वर	**18**
UNIT – 2	
काली आँधी- कमलेश्वर	**18**
UNIT – 3	
आलेखन, टिप्पण, संक्षेपण, प्रतिवेदन, प्रेस विज्ञप्ति,	**18**

Activity:

विद्यार्थियों को पाठ पढ़ाना, सप्ताह में एक दिन समाप्त किये गये पाठ का सार लिखकर कक्षा मे पढ़ना (संगोष्ठी),पाठ का संदेश लिखना, शुद्ध हिन्दी लिखना (कार्यशाला) । **10**

Text Book:

काली आँधी- कमलेश्वर

Recommended Books :

- कार्यालय आलेखन और टिप्पण- प्रकाशक- कर्नाटक महिला हिंदी सेवा समिति, बेंगलुर
- व्यावसायिक संप्रेषण- अनुपचंद भयानी- प्रकाशक- राजपास एण्ड सन्स, दिल्ली
- राजभाषा हिंदी राजकीय पत्रव्यवहार – डॉ. घनश्याम अग्रवाल, जयभारती प्रकाशन, माया प्रेस रोड, इलाहाबाद-3
- प्रयोजनमूलक हिंदी पारिभाषिक शब्दावली टिप्पण प्रारूपण- डॉ मधु धवन- जयभारती प्रकाशन, माया प्रेस रोड, इलाहाबाद-3
- https://www.youtube.com/watch?v=DLWLO6vKMrU

Course Articulation Matrix – 21HIN208

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	2	1	1	1	2	1	3	2	3	1	2
CO 2	2	2	1	1	1	2	1	3	2	3	1	2
CO 3	2	2	1	1	1	2	1	3	2	3	1	2
CO 4	3	2	1	1	1	1	1	-	1	3	1	2
Weighted Average	2.25	2	1	1	1	1.75	1	2.22	1.25	3	1	2

Continuous Formative Evaluation/Internal Assessment (AECC)

Total marks for each course shall be based on continuous assessments and semester end examinations. The pattern is 40:60 for IA and Semester End Theory Examinations respectively and 50:50 for IA and Semester End Practical Examinations respectively.

	THEORY
TOTAL MARKS	100
Continuous Assessment – 1 (C1)	20
Continuous Assessment – 2 (C2)	20
Semester End Examination (C3)	60

Evaluation Process of IA Marks shall be as follows:

a) The first component (C1) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, project work etc. This assessment and score process should be completed after completing 50% of syllabus of the course and within 45 working days of semester program.

b) The second component (C2) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, internship/industrial practicum/project work, quiz etc. This assessment and score process should be based on completion of remaining 50% of syllabus of the course of the semester.

c) During the 17th – 19th week of the semester, a semester end examination shall be conducted by the college for each course. This forms the third and final component of assessment (C3) and the maximum marks for the final component will be 60%.

d) In case of a student who has failed to attend the C1 or C2 on a scheduled date, it shall be deemed that the student has dropped the test. However, in case of a student who could not take the test on scheduled date due to genuine reasons, such a candidate may appeal to the Program Coordinator/Principal. The Program Coordinator/Principal in consultation with the concerned teacher shall decide about the genuineness of the case and decide to conduct special test to such candidate on the date fixed by the concerned teacher, but before commencement of the concerned semester end examinations.

e) For assignments, tests, case study analysis etc., of C1 and C2, the students should bring their own answer scripts (A4 size), graph sheets etc., required for such tests/assignments and these be sealed/signed by the concerned department at the time of conducting tests/assignment/project work etc.

f) The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) of a course shall be as under:

	C1	C2	TOTAL
Session Test	20	-	20
Seminar/ Presentation/ Assignment/ Activity/ Case Study/ Field Work/ Project Work/ Quiz etc.	-	20	20
TOTAL	20	20	40

- Conduct of Test, Seminar, Case study/Assignment etc., can be either in C1 or in C2 component as decided by the college and concerned department/teacher.

- The teachers concerned shall conduct test/seminar/case study etc., The students should be informed about the modalities well in advance. The evaluated courses assignments during component I (C1) and component II (C2) of assessment are immediately provided to the candidates after obtaining acknowledgement in the register by the concerned teacher(s) and maintained by the Department. Before commencement of the semester end examination, the evaluated test, assignment etc., of C1 and C2 shall be obtained back to maintain them till the announcement of the results of the examination of the concerned semester.

g) The marks of the internal assessment shall be published on the notice board of the department/college for information of the students.

h) The internal assessment marks shall be communicated to the CoE at least 10 days before the commencement of the semester end examinations and the CoE shall have access to the records of such periodical assessments.

i) There shall be no minimum in respect of internal assessment marks.

j) Internal assessment marks may be recorded separately. A candidate, who has failed or rejected the result, shall retain the internal assessment marks.

QUESTION PAPER PATTERN
For Ability Enhancement Compulsory Course
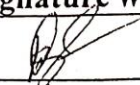B.Com., B.B.A, B.C.A, B.Sc, B.A., B.SW,
Text Book-40 Marks.
Grammar-20 Marks
Instruction for Students- In Question No III Student should choose Two from Text and
Two from Grammar

Qn. No.	Particulars		Marks	Total
SECTION – A				
I	Objective Type Questions (Compulsory) From Grammar only	10 out of 10	01	10
II	Reference to Context From Text Book only 1. 2. 3. 4.	2 out of 4	05	10
SECTION – B				
III	Short Answer Questions (From Three Questions from Text and Three Questions from Text Grammar as the case may be) 1. 2. 3. 4. 5 6.	4 out of 6	05	20
SECTION – C				
IV	Essay type Answer Questions From Text Book only	2 out of 4	10	20
	Total			**60**

The BoS meeting of **HINDI** (UG) was held on **01.12.2021** The following Board members were present.

Sl. No.	Name	Signature with date
1	Sri. PARAMESHWAR HEGDE	
2	Smt. RESHMA	Reshma
3	Dr. PRATHIBHA MUDLIAR	
4	Dr. SHRIDHAR HEGDE	
5	Sri PADMANABHA A V	ABSENT
6	Sri. PANKAJ MISHRA	ABSENT

Place : MYSURU

Date: 01.12.2021

Signature of the Chairperson
Chairperson
BOS/BOE in Hindi
SBRR Mahajana First Grade College
(Autonomous)
Jayalakshmipuram, Mysuru-570 012

Education Society (R)
Education to Excel

SBRR Mahajana First Grade College (Autonomous)

Jayalakshmipuram, Mysuru – 570 012 Karnataka, INDIA

Affiliated to University of Mysore,
Re-Accredited by NAAC with 'A' Grade, College with Potential for Excellence

BOARD OF STUDIES (BoS)

DEPARTMENT OF History

UG ✓

PG ☐

NEP Syllabi for I and II Semester BA-History

2021-22

DEPARTMENT OF History

Motto
History for future

Vision
Orienting the students to imbibe
Indian Culture and values through History

Mission

- To organize field visits to Historical places, Historical monuments, Excavation Sites, History museums, Conservation laboratory etc, which provides experiential learning.

- To take up special projects like conservation of monuments, heritage buildings etc.

- To organize exhibitions related to numismatics and philately

- To organize special lectures remembering National leaders, Martyrs and renowned personalities.

SBRR Mahajana First Grade College(Autonomous)
Affiliated to University of Mysore &Accredited by NAAC with 'A' Grade
College with potential for excellence
Jayalakshmipuram, Mysuru - 570 012

Name of the Degree program: BA   **Discipline Course: History**

POs	Programme Outcomes (POs)
PO1	**Domain Knowledge:** Inculcation of fundamental concepts, principles, methods and the application of the same in the realm of concerned domain.
PO2	**Problem Analysis:** This programme enhances the ability to define, identify and analyze appropriate means towards amicable solutions in the given area of Knowledge.
PO3	**Design & Development of Solutions:** Structuring theoretical knowledge and developing customized designs in terms of – Intervention strategies, Profiling, Reviews, Archives, Marketing strategies, Info-graphics and Approaches for arriving at relevant and desirable solutions.
PO4	**Research & Investigation**: Knowledge and application of "Research Methods" to investigate domain specific problems and derive scientific conclusions through testing of Hypotheses and relevant findings empirically.
PO5	**Usage of Modern Tools and Techniques:** Mastery in the academic enclave through skilled handling administering, assessing, validating and interpreting complex phenomena using advanced tools and techniques to create simple and sustainable solutions.
PO6	**Social Sciences & Society –** Promotes domain specific literacy to illuminate the significance of each discipline and its applicability for the well-being of Society.
PO7	**Environment and Sustainability:** Contemplate and Introspect prevailing environmental challenges and consequences. Further, channelize initiatives towards sustainability.
PO8	**Moral and Ethical Values:** Application of Professional Ethics, Humanitarian Values, Accountability and Social Responsibilities in emerging society towards attainment of harmony and co-existence.
PO9	**Individual and Teamwork:** Imbibe the qualities of Teamwork and function effectively as an emerging leader in the diversified and multidisciplinary areas.
PO10	**Communication:** Demonstrates Competency in comprehending and conceptualizing discipline specific concepts and ideas and communicates effectively through fluid communication within the professional and social setup.
PO11	**Economics and Project Management:** Understand the Economic Concept in the context of specific discipline and apply the same through initiating Planning, and Executing the Project Dynamics effectively towards successful Project Management.
PO12	**Lifelong Learning**: Identify and address their own educational needs in a changing world in ways sufficient to upgrade one's skills and competencies through constant self-evaluation and eternal learning.

Department of History

List of Board of Studies Members-2021-22

Sl.No.	Name	Designation
1	**Mr. Dr. Sreedhara H** HoD & Assistant Professor SBRR Mahajana First Grade College (Autonomous), Jayalakshmipuram, Mysuru Email: sreedharah79@gmail.com **Cell: +91 9901041470**	**Chairperson**
2	**Dr. Dharmesha A.G.** Assistant Professor SBRR Mahajana First Grade College (Autonomous) Jayalakshmipuram, Mysuru dharmasourave@gmail.com **Cell: +91 9538245434**	**Member**
3	**Dr. K. Sadashiva** Prof & Chairman DOS History,Manasagangothri, Mysore sadashivak@gmail.com **Mobile : +91 9886153778**	**VC Nominee**
4	**Prof. Shashidhar B.R.** Assistant Professor Dept. of History Govt. First Grade College Madikere, Kodagu District. shashidharvalnur@gmail.com **Mobile : +91 9945915343**	**Expert from other University**
5	**Mrs. Shashikala A.S.** Assistant Professor Dept. of History Govt. First Grade College Chennapatna, Ramanagara Dist. shashidraj@gmail.com **Mobile : +91 8618430156**	**Expert from other University**
6	**Dr.Gavi Siddaiya** Divisional Archives Office, No.15/D, 2nd stage, V.V. Nagar, Mysuru **Mobile : +91 9448739096**	**Expert from Industry/Corporate Sector**

Course Structure & Pattern of Examination- B.A. (History) 2022-23
[As per NEP – 2020 Guidelines]

FIRST SEMESTER

Course Type & Code	Title of the Course	Hours / week	Credits	Max. Marks			Exam Duration	Total Marks
				IA		Exam		
			L:T:P	C1	C2	C3		
DSC-1 211129	Introduction to Ancient World Civilizations	3	**3:0:0**	20	20	60	$2\frac{1}{2}$	100
DSC-2 211130	History of Ancient India (From Earliest times to 1206 CE)	3	**3:0:0**	20	20	60	$2\frac{1}{2}$	100
OE-1	Cultural Heritage of India 21OEHIS101 OR Introduction to Archaeology 21OEHIS102	3	**3:0:0**	20	20	60	$2\frac{1}{2}$	100

SECOND SEMESTER

Course Type & Code	Title of the Course	Hours / week	Credits	Max. Marks			Exam Duration	Total Marks
				IA		Exam		
			L:T:P	C1	C2	C3		
DSC-1 211229	Introduction to Medieval World Civilizations	3	**3:0:0**	20	20	60	$2\frac{1}{2}$	100
DSC-2 211230	History of Medieval India (1206-1761)	3	**3:0:0**	20	20	60	$2\frac{1}{2}$	100
OE-2	Cultural Heritage of Karnataka 21OEHIS201 OR Manuscriptology 21OEHIS202	3	**3:0:0**	20	20	60	$2\frac{1}{2}$	100

DEPARTMENT OF HISTORY

NEP (CBCS) Syllabus for I & II Semester

(Effective from Academic Year 2021-22)

Four years Integrated Honours Degree Program in History to be introduced under NEP

BA Semester-1

DSC-1　　　　　　　　　　　　　　　　　　　　　**Course Code : 211129**

Course Title: Introduction to Ancient World Civilizations	
Total Contact Hours: 39 to 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 60
Syllabus Authors: BOS (UG)	Summative Assessment Marks: 100

Course Outcomes (COs):

CO1. Acquire knowledge of Ancient Civilizations across the world and geographical influences which aided the establishment of these Civilizations.

CO2. Analyze and Trace the evolution of political history, socio-economic characteristics of the different Civilizations and the ideas of theocracy and statehood during this time.

CO3. Acquire knowledge of various contributions in the fields on religion, law, education, language, literature, science mathematics, art and architecture.

Content of Course	39/42 Hrs
Unit-1 : Mesopotamian, Egyptian and Chinese Civilizations	**13/14**
Introduction: Geographical Formation and Early Man Origin and Stages of the Earth – Geological Formation of World – Evolution of Human Species	02
Chapter-1 : Mesopotamian Civilization Geographical Background - From Neolithic to Bronze Age. **Sumerians** – Race - Political History of the Sumerians - Kings and Governments of Sumer **The Akkadians** - Old Babylonian Empire - Hammurabi and his Code - The Kassite domination - Attacks from the Hittites - The New Babylonian Empire – King Nebuchadnezzar and the Days of Babylonian Glory - The Decline of Babylon **The Assyrian Empire** - The reforms of Tiglathpileser III - Decline of Assyrians -The decline of Mesopotamian civilization Social condition - Economic Condition -–Theocratic State - Cultural contributions of Mesopotamians - Religion - Law – Education - Language and Writing–Literature - Art and Architecture - Hanging Garden - Science and Mathematics – Astronomy - Development of Calendar – Medicine	04

Chapter-2 : Egyptian Civilization	04
Egypt – The Gift of Nile - Cultural Transition from Neolithic to Bronze Age	
Political History of Egyptian Civilization - Intermediate Periods - The New Kingdom or the Period of Empire (1560-1087 BCE) - The downfall of Egypt -	
Social Condition - Economic Condition – Agriculture – Industry – Trade – Cultural contributions of Egyptians - Writing and Literature – Games – Education - Religion- Akhenaton and his Monotheism - Art and Architecture	
Chapter-3 : Chinese Civilization	04
Early dynasties – The State – Decline of Ancient China – Economy and Society – Occupations – Art and Crafts – Ancestor Worship and Oracles – Script – Solar-Lunar Calendar - Literature	
Unit – II : Greek, Roman Civilizations	**13/14**
Chapter-4 : Greek Civilization	05
Geographical influences on the Greek	
City States - Polity – Socio-Economic Background - Class Conflict between Aristocracy and Peasantry: Process of Reforms - Transition to Democracy - Conflict with Persia: Delian League (478 BCE) - The Peloponnesian War (431-404 BCE) - The End of the Classical Period	
Social Conditions - Slavery in Ancient Greece: Economy and Society - Position of Women	
Economic Conditions – Agriculture – Crafts - Maritime Commerce – Taxation.	
Cultural contributions of Ancient Greece – Philosophy - Literature and Drama -Scientific Approach – Mathematics – Medicine - Astronomy – Religion – Olympic Games - Art and Architecture	
Chapter-5 : Roman Civilization (Early Part)	04
The founding of Rome City - Rome under Monarchy - The Assembly and the Senate - The Roman Republic - The Roman Expansion.	
Political Structure and Society during the Roman Republic - Effects of the Roman Expansion on commoners - Struggle between Patricians and Plebeians - Last Hundred Years of the Republic - Anti-Rome upheavals - Professional Army and War Lords - Rise of Dictatorship in Rome – Julius Caesar	
Chapter-6 : Roman Principate and Empire	05
Augustus Caesar and His Successors –Diocletian and Constantine- The decline of the Western Roman Empire	
Social Condition of the early Roman Empire - Social Structure of the Later Roman Empire - Status of Roman Women – Slavery -Economic Condition – Judicial System	
Cultural Contributions – Language – Philosophy and Literature - Religion in Ancient Rome - Judaism - Christianity - Art and Architecture - Sculpture - Painting- Coins and medals	
Unit-III : Iranian, Early American and African Civilizations	**13/14**
Chapter-7 : Iranian Civilization	05
Early History - Achaemenid Empire – Sassanid Empire – Economic and social Life – Religion – Art and Culture	
Chapter-8 : Early American Civilizations	04
Mayan Civilization – Astronomy – Calendar Making -The Aztecs -The Incas – The Olmec – Culture – Religion – Art - Decline.	

Chapter-9 : Early African Civilizations	04
The Kingdom of Kush – Kingdoms of Nubia and Aksum – Sudanic Kingdoms –Civilizations of the Bantu Peoples – Kingdom of Kongo- Lunda Empire.	

Suggested Readings:

1. Austin, M. M., The Hellenistic World from Alexander to the Roman conquest, Cambridge, 1981.

2. Algaze, Guillermo., Ancient Mesopotamia at the dawn of Civilisation: The Evolution of an Urban Landscape, University of Chicago Press, Chicago, 2009.

3. Badian, E., Studies in Greek and Roman History, Oxford University Press, 1964.

4. Badian, Ernst., Roman Imperialism in the Late Republic, Oxford, 1967.

5. Edward MacNall Burns and others, World Civilisations, Vol. A, GOYL SaaB Publishers & Distributors, Delhi, 2011.

6. Ferrero, Guglielmo., Characters and Events of Roman History, Barnes & Noble Books, New York, 1909.

7. Keith Bradley and Paul Cartledge, ed., The Cambridge World History of Slavery, vol. 1, Cambridge University Press, New York, 2011.

8. Nissen, Hans J., The Early History of the Ancient Near East, 9000-2000 BC, University of Chicago Press, Chicago, 1988.

9. Pollock, Susan., Ancient Mesopotamia: the Eden that never was, Cambridge University Press, Cambridge, 1999.

10. Potter, David S, ed., A Companion to the Roman Empire, Blackwell, Oxford and London, 2006.

11. Sharma. S.R., A Brief Survey of Human History, Hind Kitabs Ltd, Bombay, 1963.

12. Rakesh Kumar, Ancient and Medieval World, From Evolution of Humans to the Crisis of Feudalism, Sage Publications India Pvt Ltd, New Delhi, 2018.

13. Roux, George., Ancient Iraq, Penguin, London, 1992

14. Scarre, C., and Brian M. Fagan., Ancient Civilisations, Routledge, New York, 2016.

15. Sharma. S.R., A Brief Survey of Human History, Hind Kitabs Ltd, Bombay, 1963.

16. Shaw, Ian, ed., The Oxford History of Ancient Egypt, Oxford University Press, 2000.

17. Trigger, Bruce G., Understanding Early Civilisations, Cambridge University Press, 2003.

18. Wenke, Robert, The Ancient Egyptian State: The Origins of Egyptian Culture, c8000- 2000 BCE, Cambridge University Press, Cambridge, 2009

Course Articulation Matrix - 211129

COs/ POS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	1	1	1	2	1	2	3	1	-	2
CO2	3	1	1	-	1	2	1	2	2	1	1	2
CO3	3	1	1	-	-	2	1	2	3	1	1	2
Weighted Average	3	1	1	1	1	2	1	2	2.66	1	1	2

BA Semester-1

DSC-2 **Course Code : 211130**

Course Title: History of Ancient India (From Earliest Times to 1206 CE)	
Total Contact Hours: 39 to 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 60
Syllabus Authors: BOS (UG)	Summative Assessment Marks: 100

Course Outcomes (COs):

CO1. Gain an extensive insight of the political developments in Ancient India and familiar with development of Human Evolution and Material Culture in the Indian sub-continent.

CO2. Analyze sources in different forms to study the history of Ancient India. Capture a glimpse of the evolving socio- cultural and religious diversities and dissents of Ancient India.

CO3. Understand the progress of early State formations and political structures in Ancient India.

Content of Course	39/42 Hrs
Unit-1 : Pre Historic Culture to Nandas	**13/14**
Introduction Survey of Sources - Archaeological and literary sources Geographical Factors and their Impact.	02
Chapter-1 : Pre Historic Cultures in India Early Man in India – Paleolithic Ages –Mesolithic Cultures –Neolithic Culture – Growth of Villages from Baluchistan to Western Uttar Pradesh and Gujarat - Important sites- Bhimbetka, Daimabad, Isampur, Adichanallur , Chandravalli	03
Chapter-2 : The Indus Civilisation Origin and Chronology of the Indus Civilisation - Early Indus Cultures –Extent and Population – Agriculture and Subsistence – Agriculture and Crafts –Trade. Culture: Writing, Art, Religion– Social and Political Structure – Later Harappan Phase – End of the Indus Civilisation	03
Chapter-3 : The Vedic and Later Vedic Age Vedas as a Historical Source – Varna in the Rig Vedic Period – Religion: Sacrifices to the Gods –Coronation Rituals – Rajasuya and Ashwamedha - Later Vedic Age – The Emergence of Monarchy - Polity in Vedic Period -Gana-Samudaya- Sabha, Samiti and Vidata.	03
Chapter-4 : The Age of Mahajanapadas to the Nandas Mahajanapadas- Republican States and their functioning – Political Conflicts and the Growth of the Magadhan Empire -The Nandas – Foregin Invasions on India – Persians and Macedonians - Alexander‟s Invasion The Religious Revolution **-** The Intellectual Ferment – Ajivikas – Jainism –Buddhism – Brahminism- Doctrines and Contributions.	03
Unit – II : The Age of Empire	**13/14**
Chapter-5 : The Mauryan Empire Sources - Chandragupta Maurya - Ashoka – Ashoka‟s Dhamma – Political Philosophy of Mauryans – Arthashastra of Kautilya - Central and Provincial Administration - Revenue	07

and Finance – Internal and Foreign Trade – Industries – Social Conditions – Ashoka‟s Edicts – Language – Literature – Art and Architecture	
Chapter-6 : Post - Mauryan India: 200 BCE – 300 CE The Political History of North India – The Shungas – Kanvas - Indo-Greeks – The Shaka-Pahlavas–The Kushanas – Kanishka –Gandhara Art and Mathura school of Art-Shatavahana Empire in Deccan.	04
Chapter-7 : The Sangam Age Polity under early Cheras, Cholas and Pandyas – Sangam Literature – The Sangam Government – Central and Local Self Government	03
<center>**Unit-III : Guptas and their Successors**</center>	**13/14**
Chapter-8 : The Guptas and Their Successors (CE 300–CE 750) Rise of the Gupta Dynasty - Chandragupta I – Samudragupta and Allahabad Prasasti - Chandragupta II – Administrative Structure -Central and Provincial Administration Economy and Society-Indian Feadalism Political Development in Deccan and North India: The Vardhanas – Harshavardhana Administration, Religion- Buddism- Education (Nalanda University) Political Development in South India: Pallavas – Mahendra Varma, Narasimha Varma – Cholas - Raja Rajachola- I, Rajendra chola, local self-government - Art and Architecture of Pallavas and Cholas.	09
Chapter-9 : The Rajputs Chauhans– Paramaras –Chandellas – Polity, Administration and Art & Architecture.	03

Maps for Study : I.Mauryan Empire under Ashoka
      II. Kushana Empire under Kanishka
      III.Gupta Empire under Samudragupta
      IV.Vardhana Empire under Harshavardhana
	01

Important Historical Places: 1.Sanganakallu 2. Lothal 3.Kalibangan 4.Bimbetka 5. Harappa 6. Mahenjodharo 7.Purushapura 8.Gandhara 9. Allahabad 10.Kanauj 11. Shravanabelagola 12.Kausambi 12.Rajagriha 13.Ujjaini 14.Pataliputra 15.Bodhagaya 16. Delhi 17.Nalanda 18. Tarain 19.Kalibangan 20.Prayaga	01

Suggested Readings:

1. Irfan Habib - People‟s History of India Series (Vols 1- 7)
2. Upinder Singh - A History of Ancient and Early Medieval India
3. Chakrabarthi Dilip K- A History of Indian Archaeology from beginning to 1947
4. S. Piggott - Prehistoric India
5. R.S. Sharma- Ancient India
6. RomilaThapar - Ancient India
7. D.D. Kosambi - The Culture and Civilisation of Ancient India in Historical Outline.
8. K.A. NilakantaSastri - A History of South India
9. V. N. HariRao - History of India Vol. I
10. S. R. Sharma - Comprehensive History of India
11. V. A. Smith - The Oxford History of India
12. R.S. Tripathi- History of Ancient India
13. Dr. Sreedhara H- History of Ancien India.

Web Links:

1. https;//rgu.ac.in
2. https;//www.ahandfulofleaves.org
3. https;//nizamcollege.ac.in
4. https;//www.coreknowledge.org
5. https;//www.researchgate.net

Course Articulation Matrix - 211130

COs/ POS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	-	1	1	2	1	2	1	1	-	2
CO2	3	1	1	1	1	2	1	2	1	1	2	2
CO3	3	-	1	1	-	2	1	2	2	1	1	2
Weighted Average	**3**	**1**	**1**	**1**	**1**	**2**	**1**	**2**	**1.33**	**1**	**1.5**	**2**

BA Semester-1
Open Elective

Course Code: 21OEHIS101

Course Title: Cultural Heritage of India	
Total Contact Hours: 39 to 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 60
Syllabus Authors: BOS (UG)	Summative Assessment Marks: 100

Course Outcomes (COs):

CO1. Provide an insight about an extensive survey of heritage of India and familiarize oneself with Indian history and culture

CO2. Expertize to analyse further development of culture of India and the factor responsible for origin and decline of culture

CO3. Provide the opportunity to understand the process of cultural development

Content of Course	39/42 Hrs
Unit-1 : Introduction	**13/14**
Chapter-1 : Cultural Heritage Meaning – Definitions – Concepts – Characteristics – Types of Indian Cultural Heritage – Tangible and Intangible – Significance of Cultural Heritage in Human Life – Cultural Zones of India	05
Chapter-2 : Fairs, Festivals and Rituals Ethnic Indian Cultural Construct – Significance and Historical background of Fairs, Festivals and Religious Rituals – Regional – Folk – Tribal – National – Monsoon Fairs - Animal Fairs – Jatres.	05
Chapter-3 : Pilgrimage Centres of India Kashi – Mathura– Rameshwara – Bodh Gaya– Amarnatha, Vaishnodevi, Nanjangud and Madurai.	04
Unit – II : Legends, Narratives and Cultural Ethos	**13/14**
Chapter-4 : Meaning – Significance – Forms and Traditions of Legends Puranic Legends – Tradition of Cultural Heritage: Ramayana and Mahabharata – Ancient Fables of Ethical and Moral Values: Panchatantra and Jataka Stories.	04
Chapter-5 : Traditional Performing Arts Indian Aesthetics – Important Sources: Bharata"s Natyashastra - Kitab –i- Navaras by Ibrahim Adil Shah II – Indian Classical Dances: Bharatanatyam – Kathakali – Mohiniyattam – Kuchipudi – Odissi – Manipuri Dance. **Theatre:** Sanskrit Plays – Kutiyattam as a specimen of Oral and Intangible Cultural Heritage **Oral Tradition and Performing Arts** – Bhajan, ,Harikatha, Vedic Chants, Gurbani-Yakshagan, Bootaaradane.	06
Chapter-6 : Indian Classical Music **Sources** - Two Major Traditions: Hindustani and Carnatic Music - Historically Important Personalities of Indian Classical Music: Amir Khusrow, Tansen, Mohammad Shah	04

"Rangeela", Purandaradasa and Kanakadasa– M.S. Subbulakshmi – Bhimasen Joshi.	
Unit-III : Architecture and Built Heritage	**13/14**
Chapter-7 : Indian Architecture The Beginnings – Indus Valley: Town Planning – Mauryan Architecture: Characteristics, Palaces and Pillars – Stupa Architecture – Important Stupas – Rock Cut -Architecture: Caves and Temples – Temple Architecture: Nagara, Dravida and Vesara Styles– Mughal Architecture – Colonial Architecture	06
Chapter-8 : Important Monuments of North India (Study of Historical and Cultural Sites through maps) Nalanda, Ajanta, Ellora, Prayaga, Dwaraka, Sun Temple -Konark, Khajuraho, Agra – TajMahal, Delhi – Red Fort,	04
Chapter-9 : Important Monuments of South India Shore Temple (Mahabalipuram), Aihole, Badami, Pattadakal, Hampi, Kanchi, Nagarjunakonda, Amaravati, Tanjore.	04
Historical Places: **1**. Pushkar **2.** Prayaga **3.**Shravanabelagola **4.** Ajmer **5.**Amritsara **6.**Delhi **7.**Kashi **8.**Nalanda **9.**Ajanta **10.**Dwarka **11.**Puri **12.**Konark **13.**Khajurahoo **14.**Tiruvanathapuram **15**.Ellor **16.**Mah**a**balipuram **17.**Pattadakal**lu 18.**Hampi **19.**Kanchi **20.**Nagarjunakonda	

Note: Historical Tour and Preparation of Project Report based on field work is Mandatory
Suggested Readings:

1. K.T Acharya - Indian food: A Historical Companion, oxford University Press, 1998.
2. Banga, I. (ed). - The City in Indian History : Urban Demography, Society and Politics, Delhi, Manohar, 1991
3. A.L Basham - The wonder that was India. Picador Publisher, Indian ed. 2014
4. N.K Bose - Culture Zones of India" in culture and Society in India, Asia publishing House 49
5. S.Narayan - Indian Classical Dances, Shubhi Publications, 2005.
6. Prakash, H.S - Shiva - Traditional Theatres, Incredible India Series, New Delhi, 2007
7. S. Radhakrishnan - Culture of India" in the Annals of the American Academy of Political and Social Science, Vol 233, India Speaking (May 1944).pp 18-21.
8. K. Thapiyal , S. Shukla - Sindhu Sabhyataien, Luckhnow,2003 The Director General Survey of India (ed.), Guide Books: World Heritage Series, New Delhi
9. Shashi Tiwari - Origin of Environmental Science from Vedas. A Research paper presented at the National Seminar on" Science and Technology" in Ancient Indian Text, Special Centre for Sanskrit Studies. JNU, 9-10th, January, 2010
10. Raman Varadara - Glimpses of Indian Heritage, Popular Prakashan Private Ltd., Bombay, 1989
11. Varapande, M.L - History of Indian Folk Theatre (Lok Ranga Panorama of Indian Folk Theatre) Abhinav Publications,1992
12. V. Vasudev - Fairs and Festivals, Incredible India series, 2007
13. A. Sundara (Ed.) - Kannada Vishaya Vishvakosha Ithihasa mattu Puratatva
14. H. Tipperudraswamy - Karnataka Samskruti Sameekshe
15. Janapada Vishya Viswakosha Vol- I and II Prasaranga University of Mysore
16. Rangacharya - The Natya shastra, English translation with critical Notes, New Delhi, Munshiram Manoharlal Publishers Pvt ltd.

Course Articulation Matrix - Course Code: 21OEHIS101

COs/ POS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	1	1	1	2	1	3	2	1	1	2
CO2	3	1	-	1	-	2	1	2	1	1	-	2
CO3	2	1	1	1	1	2	1	2	1	1	1	2
Weighted Average	2.66	1	1	1	1	2	1	2.33	1.33	1	1	2

BA Semester-1
Open Elective

OE-1   **Course Code:** 21OEHIS102

Course Title: Introduction to Archaeology	
Total Contact Hours: 39 to 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 60
Syllabus Authors: BOS (UG)	Summative Assessment Marks: 100

Course Outcomes (COs):

CO1. Understand the concept of Archaeology as an ancillary for study of history and the various features of Archaeology in understanding history

CO2. Familiarize with the scope of Archaeology. Understand the various tools and techniques imbibed in Archaeology

CO3. Study various schools of disciplines of Archaeology.

Content of Course	39/42 Hrs
Unit-1 : Introduction	**13/14**
Chapter-1 : Definition of Archeology Its Aims and Scope : difference between History and Archeology	07
Chapter-2 : Kinds of Archaeology – Ethno -Marine and Salvage	07
Unit – II : Archaeology by Period	**13/14**
Chapter-3 : Lower Paleolithic Middle Paleolithic – Upper Paleolithic – Mesolithic – Neolithic - Chalcolithic – Bronze age – Iron Age	06
Chapter-4 : Archaeology in India William Jones, James Princep, Alexander Cunningham, John Marshall, Sir Mortimer Wheeler, Allchin, H. D. Sankalia, S.R.Rao. M. H. Krishna**.**	06
Chapter-5 : Archaeological Survey of India – Department of Archaeology Government of Karnataka	02
Unit-III : Exploration, Excavation and Analysis	**13/14**
Chapter-6 : Identification of a site – field survey – sampling techniques – Application of Scientific methods.	04
Chapter-7 : Methods of Excavation – vertical and horizontal – Trenching -Gridding	02
Chapter-8 : Excavation of burial mounds – Open Stripping – Quadrant method – Excavation of pits – Excavation of a typical site	04
Chapter-9 : Visit to Local Archaeological Sites and Preparation of Field Study Report for Assignment is Mandatory	04

Suggested Readings:

1. Agrawal D.P - Archaeology in India
2. Aiken M.J - Science based dating in archaeology
3. Allchin Bridget
4. & Raymond Allchin - Rise of Civilisation in India and Pakistan
5. Atkinson RJC - Field Archaeology
6. Basker .P - Techniques of Archaeological Excavation
7. Chakrabarthi D.K - A History of Indian Archaeology from the Beginning to 1947
8. Chakrabarthi D.K - Theoretical Perspectives in Indian Archaeology
9. Gosha .A - Encyclopedia of Indian Archaeology
10. Rajan .K - Archaeology, Principles and Methods
11. Raman K.V - Principles and Methods in Archaeology
12. Dr.Srinivas V Padigar - Principles of Archaeology.
13. Dr Srinivas V Padigar - Puratattva Parichaya-(Kan)
14. Sundara (Ed.) - Kannada Vishaya Vishvakosha Ithihasa mattu Puratattva
15. Srikanta Shastri - Puratattva Shodane

Course Articulation Matrix - Course Code: 21OEHIS102

COs/ POS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1	1	1	1	2	1	2	2	1	1	2
CO2	2	1	1	1	1	2	1	2	2	1	1	2
CO3	2	-	1	-	-	3	1	3	1	1	1	2
Weighted Average	2	1	1	1	1	2.33	1	2.33	1.66	1	1	2

DSC-3   **Course Code : 211229**

Course Title : Introduction to Medieval World Civilization	
Total Contact Hours: 39 to 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 60
Syllabus Authors: BOS (UG)	Summative Assessment Marks: 100

Course Outcomes (COs):

CO1. Understand the geographic limitations and advantages that contributed to the rise of different civilizations in the medieval world.

CO2. Get information on the development of religious traditions and organizations in the medieval world and understand the growth of Feudalism and European towns in the middle ages.

CO3. Indicate the causes and impact of the Crusades in the Medieval Europe. Derive the influences of Oriental Civilizations on Medieval Europe. Illuminate the aspects of Economy and its development in Medieval Western Europe.

Content of Course	39/42 Hrs
Unit-1: Arab and Persian Civilizations	**13/14**
Introduction to Medieval World Civilizations Introduction – „Medieval" – Terminology and Periodization – Transitions and Historical Debates	02
Chapter-1: Arab Civilization Introduction - Arab on the Eve of the rise of Islam - Birth of Islam – Origin and Spread of Islam - The Doctrines of Islam The Caliphate State / The Arab Empire - Rashidun Caliphs - The Umayyad Caliphate -The Abbasid Caliphate. Arab contributions to Medieval World - Islamic Religious Traditions - Scholarship and Learning –Mathematics –Chemistry-Medicine-Paper and Bookmaking -Adab Literature –Philosophy -Art and Architecture	04
Chapter-2: Persian Civilization (Iranian Civilization) Introduction – Early History - Muslim Conquest of Persia – Conquest of Persia (642–651) - Second and last Muslim invasion – Persian rebellion and reconquest Persia under Muslim rule – Administration – Religion - Language of Persia – Urbanisation	04
Chapter-3: Persian Civilization - Safavid Dynasty - Shah Abbas the Great - Shah and his Achievements – Political - Shah and his Achievements - Cultural Persia‚s Cultural Contributions - Fine Arts - Carpet Weaving – The Art of the Book Making – Ceramics – Literature – Architecture	04
Unit – II: European Civilisations	**13/14**
Chapter-4: The Middle Ages in Europe (Political and Social Development) –Introduction - Successors Kingdoms to the Western Roman Empire –Germanic Foundations of Early Medieval Europe. Europe in the Early Middle Ages (Political and Economic Institutions of Medieval Europe) - The Rise of Frankish Empire - Merovingian Period – Carolingian Period - Charlemagne (768-814) - New States in Response to Invasions - Otto the Great (936-973) - The Holy Roman Empire	05

Chapter-5: The Age of Feudalism in Europe - Origin or Development of Feudalism - Feudal Polity and Economy - Decline of Feudalism	04
Chapter-6: Religious Developments in Medieval Europ –Saintly & Virgin Mary Cults - Monasticism in Europe - Organization of the Church & Growth of Papacy.	04
Unit-III: The Middle Ages in Europe	**13/14**
Chapter-7: Byzantine Empire - Constantine (306-337 CE) – Justinian (482-565 CE) - Decline of Byzantine Empire - Achievements of the Byzantium Empire - Effective Diplomacy - Trade and Commerce – Agriculture – Religious Reforms - Revival of Greek Classical Literature - Architecture and Art	04
Chapter-8: Crusades Introduction - The Crusades - Causes for the Crusades - Pope‚s call for Crusade – Crusades 1st to 9th - Crusades and Their Impact.	04
Chapter-9: Growth of Economy and Culture in Medieval Western Europe Growth of European Towns - Growth of Middle Class - Early Medieval European Economy - The first Agricultural Revolution - Expansion of Trade and Commerce in Medieval Europe - Guild System Contributions of Medieval Europe - Intellectual and Cultural Life in Medieval Europe - Medieval European universities - Growth of Western Scientific and Speculative Thought - Literature – Drama – Music - Art and Architecture	04

Suggested Readings:

1. Arthur Hassall, (ed), General History of Europe, Oxford, 1901.
2. Edward MacNall Burns and others, World Civilisations, Vol. A, GOYL SaaB Publishers & Distributors, Delhi, 2011.
3. Holt. P.M., Ann K.S.Lambton and Bernard Lewis, The Cambridge History of Islam, Vol.1, Cambridge University Press, 1970.
4. Israel Smith Clare, Medieval History of the World, vol. I and II, Arihant Publishing House, Jaipur, 2008.
5. Lars Brown worth, Lost to the West – The Forgotten Byzantine Empire, Random House Inc., New York, 2009.
6. Rahman A, Islam on Science and Technology.
7. Rakesh Kumar, Ancient and Medieval World, From Evolution of Humans to the Crisis of Feudalism, Sage Publications India Pvt Ltd, New Delhi, 2018.
8. Ferrero, Guglielmo., Characters and Events of Roman History, Barnes & Noble Books, New York, 1909

Course Articulation Matrix - 211229

COs/ POS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1	2	2	1	2	1	2	1	1	1	2
CO2	2	2	1	1	2	2	1	2	1	1	1	2
CO3	2	-	1	1	1	2	1	2	1	1	1	2
Weighted Average	2	1.5	1.33	1.33	1.33	2	1	2	1	1	1	2

BA Semester-2

DSC-4   **Course Code : 211230**

Course Title : History of Medieval India (1206-1761)	
Total Contact Hours: 39 to 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 60
Syllabus Authors: BOS (UG)	Summative Assessment Marks: 100

Course Outcomes (COs):

CO1. The students will get the knowledge of the political history of Delhi Sultanate, Mughals and Marathas. To analyze the changes in state and society under the Delhi Sultanates with respect to their administrative structure and theory of state/kingship of the Delhi Sultanate.

CO2. Understand the critical historiographical approaches on the State and also the Decline of the Delhi Sultans and Mughal Empire. To understand the fusion of art, architecture, literature, language and fine arts in medieval India under Islamic and Hindu styles.

CO3. To understand the significance of the Bhakti and Sufi Movements and their impact on the socio-cultural sphere.

Content of Course-1	39/42 Hrs
Unit-1 : Arab, Turks and Delhi Sultanate	**13/14**
Chapter-1 : Sources of Medieval Indian History Source - Literary, Foreign accounts and Archaeological sources.	02
Chapter-2 : Advent of Arabs and Turks in Medieval India Political condition of India in the Beginning of 8th Century – Arab Invasion – Muhammud Bin Qasim – Rise of Turks –The invasions of Muhammud of Ghazni and Ghori and their Impact – Tarain Wars	04
Chapter-3 : Foundation of the Delhi Sultanate Qutubud din Aibak – Razia as sultan- Era of Balban –- Early Life and accession, Theory of kingship, Achievements. Khalji dynasty – AlauddinKhalji – Conquests – Administrative measures. Mohammad bin Tughlaq – Experiments and Reforms – Firoz Shah Tughlaq and his Administrative reforms. The Later Tughlaqs – Decline of the Delhi Sultanate.	08
Chapter-4 : State-Polity, Society and Economy under the Delhi Sultanates Central and Provincial Administration – Economy –Slavery under the Delhi Sultans.	**02**
Unit – II : The Mughal Empire	**13/14**
Chapter-5 : The Foundation of the Mughal Empire Babar and Humayun – Revival of Afghan Power – Sher Shah Suri– The Second Battle of Panipat and triumph of the Mughals – Akbar's rise and consolidation of power – Conquests, Rajput Polilcy, Religious Policy – (Din-Ilahi) – Revenue Administration-Mansabdari Sysem– Jahangir, Shah Jahan and Aurangazeb –Religious Policy, Deccan policy – Revolts and reaction- Decline of Mughal Empire.	06
Chapter-6 : Administration and Economy under the Mughals Mughal Administration –Central, Provincial, Local – Theory of Kingship – Mansabdari System – Jagirdari System – Sources of Revenue – Military – Judicial System – Development in Trade and Industries.	04

Chapter-7 : Society and Culture under the Mughals Social structure under Mughals – Religion and Celebration – development of Science, Literature, Art, Architecture and Painting.	04
Unit-III : Bhakti and Sufi Movements	**10/08**
Chapter-8 : Bhakti and Sufi Movements in India The Bhakti Movement– Alvars – Nayanars Basavanna – Kabir – Meera Bai – Guru Nanak – Causes for the popularity of the Movement – Impact of the Bhakti Movement – The Sufi Movement – Shaik Nizamudin Auliya – Salim Chisti	06
Chapter-9 : The Marathas Rise of Maratha Power under Shivaji –Peshwas Rule– Third Battle of Panipat 1761	04

Maps for Study:
    i.   Khilji Empire under AllauddinKhilji
   ii.   Tughlaq Empire under Muhammad Bin Tughlaq
  iii.   Mughal Empire under Akbar
  iv.   Maratha Empire under Peshwas/ Shivaji
	01

Important Historical Places Delhi, Agra, Panipat, Fatehpur-Sikri, chittor, Gwalior, Udaipur, Kalinjar, Surat, Kanauj, Amarkot, Ayodhya, Ranthamboor, Devagiri, Dwarasamudra, Madurai, Srinagar, Sasaram, Raigar, Warangal, Poona, Lahore.	01

Suggested Readings:
1. A.L.Srivastava : Delhi Sultanate, Shiv LalAgarwal& Co. Agra, Reprint, 2017.
2. A.L.Srivastva : the Mughal Empire (Shiv LalAgarwal& Co., Agra, Reprint, 2017.
3. Sharma S.R., the Crescent in India (Agra 1933)
4. Srivastava A.L., Medieval Indian culture (Agra 1975)
5. Sharma L.P, The Sultanate of Delhi (Delhi, 1996)
6. Edwards S.M.& Garratt, Mughal rule in India (New Delhi 1974)
7. Banerjee A.C, A New History of Medieval India (New Delhi, 1983)
8. Lane Poole S, Medieval India under Muhammadan rule (London)
9. Majumdar R.C. (ed), History and Culture of the Indian people, Vol.V& VI (bhavan's Series)
10. Majumdar R.C. (ed), BharatiyaJanateyaIthihasaMattuSamskriti (bhavan's Series)
11. Sathish Chandra, History of Medieval India, Vol. I and Vol. 2.
12. IrfanHabib, Medieval India.
13. B.N.S. Yadav : Society and Culture in North India in the 12th century. RakaPrakashanPrayagraj, 2012.
14. B.P. Majumdar: socio-Economic History of Northern India, Firma K.L. Mukhopadhyaya (1960)
15. Herman Kulke (ed), The State in India (1000-1700), OUP, 199516. Ishwari Prasad: Medieval India 4th ed., Digitize 2006.
16. J.N.Sarkar: Life and Times of Shivaji, Orient Blackswan Pvt., Ltd., New Delhi, 2010.
17. K.N.Chitnis : Socio- Economic History of Medieval India, Atlantic Publishers, 2018.
18. Majumdar, Rayachaudhary&Dutt : An Advanced History of India, Laxmi Publications, 2016.
19. Mohammad Habib and K.A. Nizami, (ed): Comprehensive History of India, Vol.V, The Delhi Sltanate, PPH, 1992.

20. R.C.Majumdar& others (ed): The History and culture of the Indian People Vol. 6 the Delhi Sultanate, bhartiyaVidyaBhawan, 2006.
21. R.P.Tripathi :Rise and fall of the Mughal Empire SurjeetPublictions, 2012.
22. S.r.Sharma : the Crescent in India: A Study in Medieval History, bhartiya Kala Prakashan, 2005.
23. IshwariPrasad : A short History of Muslim Rule in India, Surjeet Publications, 2018.
24. Satish Chandra – Medieval India From Sultanate to the Mughals.
25. Dr. Sreedhara H- History of Medieval India.

Web Links:
26. https;//www.sscadda.com
27. https;//www.khansir.co.in
28. https;//old.mu.ac.in
29. https;//www.nios.ac.in
30. https;//jobscaptain.com

Course Articulation Matrix- 211230

COs/ POS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	1	1	2	3	1	3	1	1	-	2
CO2	3	1	2	1	-	2	1	3	1	1	1	2
CO3	3	1	-	1	1	3	1	3	1	1	1	2
Weighted Average	3	1	1.5	1	1.5	2.66	1	3	1	1	1	2

BA Semester-2
Open Elective

Course Title : Cultural Heritage of Karnataka	
Total Contact Hours: 39 to 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 60
Syllabus Authors: BOS (UG)	Summative Assessment Marks: 100

Course Outcomes (COs):

CO1. Understand the concept of cultural heritage of Karnataka and study of various cultural factors which influence the flow of culture in society.

CO2. Analyze the factors responsible for formation of pluralistic society.

CO3. Understand the concept "Unity in Diversity".

Content of Course-1	39/42 Hrs
Unit-1 : Introduction	**13/14**
Chapter-1 : Cultural Heritage Meaning – Definitions – Concepts – Characteristics – Types of Indian Cultural Heritage – Tangible and Intangibl– Significance of Cultural Heritage in Human Life – Cultural Zones of Karnataka.	03
Chapter-2 : Fairs, Festivals, Rituals Ethnic Indian Cultural Construct – Significance and Historical background of Fairs, Festivals and Religious Rituals – Jatres: Mylarlinga, Mudukutore, Suttur – Dasara, Deepavali, Nagarapanchami, Bangalore Karaga.	04
Chapter-3 : Piligrimage Centres of Karnataka Nanjangudu, Malemahadeshwara Betta, Dharmasthala, Shravanabelagola, KukkeSubramanya..	04
Unit – II : Legends, Narratives and Cultural Ethos	**13/14**
Chapter-4 : Meaning – Significance – Forms and Traditions of Legends Puranic Legends –Traditions of Cultural Heritage : Ramayana and Mahabharatha – Ancient Fables of Ethical and Moral Values: Panchatantra and Vaddakatha.	04
Chapter-5 : Traditional Performing Arts-Dravidian aesthetics **Folk Dances and Theatre – Important Folk Dances** Lavani, Kolata, Doddata etc. **Oral Tradition and Performing Arts** Bhajane, Harikatha, Yakshagana, Bootaaradane.	05
Unit-III : Architecture and Built Heritage	**13/14**
Chapter-7 : Karnataka Architecture The Beginnings – Influence of Mauryan Art and Architecture – Inscriptions–Temple Architecture : Nagara, Dravida and Vesara Styles – Islamic Architecture – Colonial Architecture.	05
Chapter-8 : Important Monuments of North Karnataka (Study of Historical and Cultural sites through maps) Badami, Ihole, Pattadakallu, Hampi, Bijapur (Vijayapura) etc.	04
Chapter-9 : Important Monuments of South Karnataka Halebidu, Beluru, Somanathapura, Talakadu, Mysuru, Nandi etc.	04

Note: Historical Tour and Preparation of Project Report abased on field work is Mandatory.

Suggested Readings:

1. S.Settar - PrakritaJagadvalaya
2. A.Sndara (Ed) - Kannada VishayaVishvakoshaIthihasamattuPuratatva
3. K.R.Basavaraja - History and Culture of Karnataka
4. P.B. Desai - A History of Karnataka
5. A.Sundra (Ed.) - Karnataka Charitre, Vol. I.
6. B.SurendraRao (ed) - Karnataka CharitreVol.II
7. S.Setter - Halagannada: Bhashe, BhashaVikasa, BhashaBandhavya
8. M.Chidananda Murthy - Karnataka ShasanagalaSamskrutikaAdhyayana
9. S. Rajashekara - Karnataka Architecture
10. K.A.NilakataSastri - A History of South India
11. H.Tipperudraswamy - Karnataka SamskrutiSameekshe.

Course Articulation Matrix - Course Code: 21OEHIS201

COs/ POS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	-	-	-	-	3	1	3	1	1	-	2
CO2	3	-	-	-	-	3	1	3	1	1	-	2
CO3	2	-	-	-	-	2	1	2	1	1	-	2
Weighted Average	2.66	-	-	-	-	2.66	1	2.66	1	1	-	2

BA Semester-2
Open Elective

Course Title : Manuscriptology	
Total Contact Hours: 39 to 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 60
Syllabus Authors: BOS (UG)	Summative Assessment Marks: 100

Course Outcomes (COs):

CO1. Understand the importance of manuscripts. Manuscripts as an ancillary for study of history, and the concept of cataloguing of manuscripts.

CO2. Practice the Science of conservation and preservation of manuscripts.

CO3. Visit Libraries and Achieves to study conservation and preservation.

Content of Course-1	39/42 Hrs
Unit-1 : Introduction	**13/14**
Chapter-1 : Cultural Heritage Meaning – Definitions –Characteristics – Scope and Importance	04
Chapter-2 : Types of Manuscripts Methods of Study – Writing Materials – Palm Leaf, Kadtatas (Black Book)	05
Unit – II : Collection	**13/14**
Chapter-3 : History of Manuscriptology	05
Chapter-4 : Introduction of Indian Manuscriptology	04
Chapter-5 : Manuscripts in Kannada, Tigalari, Samskrita, Pali, Tamil/Grantha, Tulu, Nandinagari and Modi	05
Unit-III : Editing	**13/14**
Chapter-6 : Collection of Manuscripts – Oriental Research Institute, Mysore, Melukote	03
Chapter-7 : Process of Editing	05
Chapter-8 : Preservation of Manuscripts – Regional Conservation Laboratory	06
Chapter-9 : Visit to Oriental Research Institute and Regional Conservation Laboratory Mysore, Academy of Sanskrit Research Centre, Melukote. Visit to Oriental Research Centres – Preparation Field Study Report for Assignment is Mandatory**.**	05

Suggested Readings:

1. ChintharChakravathi - Study of Manuscriptology
2. M.V.Seetharamaih&
   M.Chidananda Murthy - HastipratiSastra
3. N. Geethacharya - HastipratiSastraadhyayana
4. SitharamJahagirdarParichaya - Kannada GranthaSampadhanaSastra
5. S. Jagannath - GranthaSampadanaShastra
6. Devarakondareddy - LipiyaHuttumattuBelavanige
7. MadhavanaKatti - PipishastraPravesha
8. B.S.SanayaSoochi - Kannada Hasta Prathigala Micro film
9. T.V.VenkatachalaSastry - HalayaHonnu
10. A.K.Sashtri - SringeriKadathagalu
11. S.ShankarappaToranagallu - LipiNiguda

Course Articulation Matrix - 21OEHIS202

COs/ POS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	-	-	-	-	1	1	1	1	1	-	2
CO2	2	1	1	1	1	1	-	1	2	1	1	2
CO3	2	1	1	1	1	1	-	1	2	1	1	2
Weighted Average	2	1	1	1	1	1	1	1	1.66	1	1	2

Pedagogy and Assessment Pattern for All DSC and OE Papers

Pedagogy

- Lecture Method – Class Room Teaching
- Learning Through Project work
- Collaborative learning strategies
- Use of Resources like Audio- Visual aids, Films, Documentaries
- Visit to Historical Sites, Museums etc.
- ICT Supplemented Teaching
- Seminars/ Guest/ Special Lectures
- Group Discussions

Modes of Assignment

- Individual Assignments
- Project work
- Written Test
- Documentaries

Assessment:

Weightage for assessments (in percentage)

Formative Assessment		
Internal Assessment		**Theory Part Semester End Examination**
Internal Test	10	
Assignment / Book Review	10	
Seminar with Group Discussion	10	60
Viva Voice	10	
Total	**40**	
Grand Total		**100**

PATTERN OF QUESTION PAPER FOR

I & II SEMESTER EXAMINATION

SCHEME OF EXAMINATION

B.A- History (NEP)
(DSCC & OPEN ELECTIVE with 3 Credits)
I and II Semester of B.A., (C1-20, C2-20, C3-60 Total=100 Marks)

SCHEME OF EXAMINATION for 100 Marks
(Each paper shall have two components)

I.   Internal Assessment   -   **40** Marks

II.   Theory Component   -   **60** Marks

Total   -   **100** Marks

I.   Internal Assessment in Each paper shall have the following sub components.

A) Internal Test   -   **10**Marks
B) Assignment/Book Review   -   **10**Marks
C) Seminar with Group Discussion   -   **10** Marks
D) Viva Voice-   **10** Marks
Total **-   40 Marks**

NOTE:

Question papers shall have one Extra-long Answer Question Carrying 10 marks exclusively for the **Visually impaired candidates**, provided such candidates are enrolled in the course. In that case the extra Question should be printed at the end of the question paper super scribed with "Note".

The theory question paper shall have THREE parts and the maximum duration of the theory part shall be $2\frac{1}{2}$Hours and it shall be as follows:

PATTERN OF QUESTION PAPER
HISTORY - DSC

Marks: 60   **Time: $2\frac{1}{2}$ Hours**

Instructions: All PARTS are Mandatory. (ಎಲ್ಲಾ ಭಾಗಗಳು ಕಡ್ಡಾಯ)

PART – A / ಭಾಗ – ಎ

Answer ALL the following Questions in ONE Sentence each.   **10x1=10**

ಕೆಳಕಂಡ ಎಲ್ಲಾ ಪ್ರಶ್ನೆಗಳಿಗೂ ಒಂದು ವಾಕ್ಯದಲ್ಲಿ ಉತ್ತರಿಸಿ.

1. a.
   b.
   c.
   d
   e.
   f.
   g.
   h.
   i.
   j.

PART – B / ಭಾಗ – ಬಿ

Answer any FOUR of the following Questions   **4x5=20**

ಕೆಳಕಂಡ ಯಾವುದಾದರೂ ನಾಲ್ಕು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ.

2
3
4
5
6
7

PART – C / ಭಾಗ – ಸಿ

Answer any THREE of the following Questions   **3x10=30**

ಕೆಳಕಂಡ ಯಾವುದಾದರೂ ಮೂರು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ.

8
9
10
11
12

NOTE: Attending MAP Question is Mandatory.(ಭೂಪಟದ ಪ್ರಶ್ನೆಯು ಕಡ್ಡಾಯವಾಗಿರುತ್ತದೆ.)

Questions must be prepared such that all units are covered.

PATTERN OF QUESTION PAPER
HISTORY - OPEN ELECTIVE

Marks: 60   **Time: $2\frac{1}{2}$ Hours**

Instructions: All PARTS are Mandatory.

PART – A / ಭಾಗ – ಎ

Answer ALL the following Questions in ONE Sentence each.   **10x1=10**

ಕೆಳಕಂಡ ಎಲ್ಲಾ ಪ್ರಶ್ನೆಗಳಿಗೂ ಒಂದು ವಾಕ್ಯದಲ್ಲಿ ಉತ್ತರಿಸಿ.

1. a.
   b.
   c.
   d
   e.
   f.
   g.
   h.
   i.
   j.

PART – B / ಭಾಗ – ಬಿ

Answer any FOUR of the following Questions   **4x5=20**

ಕೆಳಕಂಡ ಯಾವುದಾದರೂ ನಾಲ್ಕು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ.

2
3
4
5
6
7

PART – C / ಭಾಗ – ಸಿ

Answer any THREE of the following Questions   **3x10=30**

ಕೆಳಕಂಡ ಯಾವುದಾದರೂ ಮೂರು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ.

8
9
10
11
12

NOTE: Attending MAP Question is Mandatory.(ಭೂಪಟದ ಪ್ರಶ್ನೆಯು ಕಡ್ಡಾಯವಾಗಿರುತ್ತದೆ.)

     Questions must be prepared such that all units are covered.

29

Motto:

'Feed the watchdog, build the safe society'
To groom the students as Media Professionals with knowledge and skills to excel

Vision:

*To inspire successive generations of talented Individuals
to become dedicated Journalists.*

Mission:

- Provides students with the intellectual, interpretive and Practical skills they need to function as professionals.

- With state-of-the-art technology. We have created an environment for hands-on teaching and learning.

- Internships are vital to the educational experience and students may choose from a wide range of opportunities in print, television, radio and Internet media from around the region.

Programme Outcomes for B.A.

PO1	**Domain Knowledge:** Inculcation of fundamental concepts, principles, methods and the application of the same in the realm of concerned domain.
PO2	**Problem Analysis:** This programme enhances the ability to define, identify and analyze appropriate means towards amicable solutions in the given area of Knowledge.
PO3	**Design & Development of Solutions:** Structuring theoretical knowledge and developing customized designs in terms of – Intervention strategies, Profiling, Reviews, Archives, Marketing strategies, Info-graphics and Approaches for arriving at relevant and desirable solutions.
PO4	**Research & Investigation**: Knowledge and application of "Research Methods" to investigate domain specific problems and derive scientific conclusions through testing of Hypotheses and relevant findings empirically.
PO5	**Usage of Modern Tools and Techniques:** Mastery in the academic enclave through skilled handling administering, assessing, validating and interpreting complex phenomena using advanced tools and techniques to create simple and sustainable solutions.
PO6	**Social Sciences & Society –** Promotes domain specific literacy to illuminate the significance of each discipline and its applicability for the well-being of Society.
PO7	**Environment and Sustainability:** Contemplate and Introspect prevailing environmental challenges and consequences. Further, channelize initiatives towards sustainability.
PO8	**Moral and Ethical Values:** Application of Professional Ethics, Humanitarian Values, Accountability and Social Responsibilities in emerging society towards attainment of harmony and co-existence.
PO9	**Individual and Teamwork:** Imbibe the qualities of Teamwork and function effectively as an emerging leader in the diversified and multidisciplinary areas.
PO10	**Communication:** Demonstrates Competency in comprehending and conceptualizing discipline specific concepts and ideas and communicates effectively through fluid communication within the professional and social setup.
PO11	**Economics and Project Management:** Understand the Economic Concept in the context of specific discipline and apply the same through initiating Planning, and Executing the Project Dynamics effectively towards successful Project Management.
PO12	**Lifelong Learning**: Identify and address their own educational needs in a changing world in ways sufficient to upgrade one's skills and competencies through constant self-evaluation and eternal learning.

Objectives: Journalism and Mass Communication

Programme Objectives:

1. Four-year Integrated Degree Course in Journalism and Mass Communication would aim to familiarize students with all aspects of the field of Journalism and Mass Communication. They become more proficient in both theory and practical skills of the media in general.

2. The programme would prepare the students 'ready-to-be recruited by media, advertising, PR & corporate houses'. The content of the programme is designed to be dynamic and incorporate changes to meet requirements of the industry.

3. The curriculum has been designed keeping with the industry requirements and includes subjects such as Multimedia, Photojournalism, Short Film Making, Creating Blogs and Vlogs, Mobile Journalism, Writing for Media, Producing News Bulletins for Radio and TV, Advertising and Corporate Communications, among several others. The rapid growth in media industry demands highly skilled human resource.

4. **Skill Enhancement:** The new curriculum focuses more on hands on training, internship and thereby enhancing the skills of the students. It not only aims at producing responsible communication professionals but also citizens with a humane approach in day to day life. The papers like Writing for Media, Photo journalism, Computer Applications for Media etc., further helps in skill development of students.

5. **Importance to Theory and Practical's and its application**: The Journalism and Mass Communication curriculum focuses on innovative

6. **Utilization of ICT:** The global media industry is in anticipation of ICT trained communication experts. To enhance critical and creative thinking amongst students, ICT tools are incorporated into the teaching methods which include research-led teaching, via presentations through smart classrooms, and practical productions.

LIST OF BoS MEMBERS

Sl. No.	Category	Name & Designation	Address for Communication	Email & Mobile No.
1	Chairperson	**Mr. L. Ravi** HoD and Assistant Professor	SBRR Mahajana First Grade College (Autonomous) Jayalakshmipuram, Mysuru	raviiyermysore @gmail.com **9380934470**
2	Two Experts from Other University	**Dr. C.M. Vinaya Kumar** Assistant Professor	Dept. of Journalism and Mass Communication, Andhra University, Visakhapatnam – 530003	drcmvinayakumar @gmail.com **9985085530**
3		**Mr. Mahadevaswamy KN** HOD and Assistant Professor	Dept. of Journalism Sahyadri Arts College Kuvempu University, BH Road, Shivamogga – 577303	knmswamy@gmail.com **9483796169**
4	Nominee by Vice Chancellor	**Dr. Sapna M.S** Professor	DOS in Communication & Journalism Dept. Communication & Journalism, Manasagangothri, Mysore	splashsapna@gmail.com **9845485234**
5	Member	**Mr. Keshava Murthy** Guest Lecturer	Maharaja College, University of Mysore, Mysuru	Keshavasnemrc @gmail.com **9449271480**
6	One Person from Industry/ Corporate Sector / Allied Area	**Dr. Mahendra C. K.** Editor-in-Chief 'Prathinidhi' Kannada Daily	Chamarajendra Government College of Visual Art, CAVA, Siddhartha Nagar, Mysore-570 011	drpritikapur@yahoo.com **9845113339**
7	Alumnus	**Mr. Nikhil Maruthi** Senior Account Manager	Landmark Tower, Plot No. 2, 2nd Floor, Ashok Marg, South City I, Sector 41 Gurugram, Haryana 122001	Nikhilmaruthi26 @gmail.com/ nikhilmaruthi.cmo @gmail.com **9650266082**

Course Structure (NEP 2020)

Discipline Specific Core (DSC) Courses and Open Elective (OE)

<u>I Year</u>

Course Semester, Type, Code and Name		Hours / Week			Credits	Maximum Marks			Exam Duration	Total Marks
						IA		Exam		
		L	T	P	L:T:P	C1	C2	C3		
Journalism & Mass Communication – I Semester										
DSC (1) 211158	Introduction to Journalism	4	0	0	**4:0:2 (6 Credits)**	20	20	60	2½ Hours	150
	Introduction to Journalism (Practical)	0	0	2		10	15	25	3 Hours	50
OE (1)	Writing for Media **21OEJOU101**	3	0	0	**3:0:0 (3 Credits)**	20	20	60	2½ Hours	100
Journalism & Mass Communication – II Semester										
DSC (2) 211258	Computer Applications for Media	4	0	0	**4:0:2 (6 Credits)**	20	20	60	2½ Hours	150
	Computer Applications for Media (Practical)	0	0	2		10	15	25	3 Hours	50
OE (2)	Photo Journalism **21OEJOU201**	3	0	0	**3:0:0 (3 Credits)**	20	20	60	2½ Hours	100

DSC (1) Syllabus for BA Journalism and Mass Communication

Semester I

Course Code: 211158	**Course Title:** **DSC (1) Introduction to Journalism** **DSC (1) Introduction to Journalism Practical**

Course Credits: 6 (4:0:2)	**Hours of Teaching/Week: 04 (Theory) + 4 (Practical)**

Total Contact Hours: 56 Hours (Theory) **56 Hours (Practical)**	**Formative Assessment Marks:**	**40 (Theory)** **25 (Practical)**
Exam Duration: 2½ Hours (Theory) **3 Hours (Practical)**	**Semester End Examination Marks:**	**60 (Theory)** **25 (Practical)**

Course Outcomes (COs):

CO1. Comprehend the history and development of Journalism and Mass Communication at various levels of the society and its role with respect to modern day technology.

CO2. Analyze facets of Journalism through elementary knowledge of the role and importance of Journalism and Mass Communication at Media Platforms.

CO3. Empower society with reference to the contributions of the renowned journalists.

CO4. Inculcate Moral and Ethical Values of Journalism.

Course Content   **Hours**

Unit – I:

Definition, Meaning, Nature, Scope, Functions and Principles of Journalism, Types of Journalism – Magazine, Business, Environment, Sports, Entertainment, Moffussil, Citizen Journalism, MoJo, Introduction to Mass Media, Types of Mass Media –Traditional, Folk Media, Print Media, Electronic Media and New Media.

14 hrs.

Unit –II:

Brief History and Development of Indian Journalism : James Augustus Hickey, James Silk Buckingham, Raja Ram Mohan Roy, Bal Gangadhar Tilak, Mahatma Gandhi, Dr. B.R. Ambedkar, and Annie Besant. Centenarian Newspapers: The Hindu, Times of India, The Tribune, Amrit Bazar Patrika and The Statesman.

14 hrs.

Unit – III:

Origin, Growth and Development of Kannada Journalism : Hermann Moegling, M. Venkatakrishnaiah, DV Gundappa, Mohare Hanumantha Rao, and P R Ramaiah, H.K.Veeranna Gowda, Nanjanagudu Thirumalamba, Kalyanamma.

14 hrs.

Unit – IV:

Qualification, Responsibilities of Journalists, Code of Ethics, Press in Democracy, Theories of Press - Authoritarian, Libertarian, Social Responsibility, Soviet Media Theory, Development Media Theory and Democratic Participation Theory.

14 hrs.

DSC (1) LAB – INTRODUCTION TO JOURNALISM
(PRACTICAL COMPONENT)

1. Letters to the Editor – Publish 2 letters in any of the Regional/Local or National Dailies.

2. Make a comparative analysis of any two regional/national newspapers.

3. Compare any two magazines.

4. Analyze the contribution of any journalistic personality from Unit II & III

5. Analyze a news channel of your choice (regional/national).

Books for Reference:

1. Theory and Practice of Journalism - B N Ahuja
2. Professional Journalism - M V Kamath
3. Mass Communication & Journalism in India - Keval J Kumar
4. Adhunika Bharathiya Parthrikodhyma - Shree L Bhandarkar
5. Professional Journalist John Hohenberg
6. Mass Communication & amp; Journalism in India –Mehta
7. Eradu Dadagala Nadhuve – NiranjanaVanalli
8. Pathrikodyama – Ranganath Rao
9. History of Indian Journalism – S Natarajan
10. Indian Journalism – Nadig Krishnamurthy
11. Journalism in India-R. Parthasarathy
12. New History of Indian Journalism - G N S Raghavan
13. History of Press, Press Laws & Communication- B N Ahuja
14. Karnataka Pathrika Ithihasa Vol. 1,2,3 - Karnataka Pathrika Academy
15. Indian Journalism - K M Srivastava

Weblinks:

https://dx.doi.org/10.4135/9781446215265

https://www.youtube.com/watch?v=VNUjaQ1-q_U

https://www.britannica.com/topic/journalism

https://en.wikipedia.org/wiki/Journalism

https://gacbe.ac.in/pdf/ematerial/18MHI43C-U1.pdf

https://old.mu.ac.in/wp-content/uploads/2022/03/SYBA-JOURNALISM.pdf

https://nmu.edu/writingcenter/journalism-introduction

https://study.com/academy/lesson/introduction-to-journalism-history-society.html

https://www.grin.com/document/432905

https://www.academia.edu/38813261/AN_INTRODUCTION_TO_JOURNALISM

https://www.futurelearn.com/courses/introduction-to-journalism

Course Articulation Matrix - 211158

COs/POS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12
CO1	3	1	1	1	1	2	1	3	1	3	-	2
CO2	3	1	1	-	-	2	1	3	1	3	-	2
CO3	3	1	1	-	-	2	1	3	1	3	-	2
CO4	3	1	1	1	1	2	1	3	1	3	-	2
Weighted Average	3	1	1	1	1	2	1	3	1	3	-	2

OE (1) Syllabus for BA Journalism and Mass Communication

Semester I

Course Code: 21OEJOU101	Course Title: OE (1) Writing for Media
Course Credits: 3 (3:0:0)	Hours of Teaching/Week: 03 Hours (Theory)
Total Contact Hours: 42 Hours (Theory)	Formative Assessment Marks: 40
Exam Duration: 2½ Hours (Theory)	Semester End Examination Marks: 60

Course Outcomes (COs):

CO1. Acquire hand-on training in content writing, art of headline writing, rewriting and translation for various media.

CO2. To instill and cover and write balanced reports through objectivity, accuracy, and brevity and understand the duties and qualities of a responsible Media Person.

CO3. To equip the students with recent trends in media writing. Acquire the knowledge of Radio and Television News Production and Social Media.

Course Content	Hours
Unit I: **Print Media:** Introduction to Writing for Print Media, Principles & Techniques of Writing for Print Media. – Clarity, Brevity, Simplicity, Readability and Accuracy. Forms of Journalistic Writing - News Writing – Inverted Pyramid, Writing Columns, Articles, Features, Editorials, Letters to the Editor, Preparing Press Releases.	**14 hrs.**
Unit-II: **Electronic Media:** **Radio**: Writing for Radio, Language and Grammar, Writing News Scripts, Preparing Ad Scripts, Radio Jockey Skills. **Television**: Basic Principles and Techniques of TV Writing, Elements of TV Scripting, Language and Grammar, Writing News Scripts.	**14 hrs.**
Unit-III: **New Media**: Writing Techniques for New Media, Writing for Social Media (Facebook, Twitter, Linkedin, Instagram), Introduction to Blogging and Vlogging, Current Trends in Web Journalism.	**14 hrs.**

IA / Assignments

1. Two Letters to the Editor to be published in any registered newspaper.
2. Present a two minute long radio segment on a topic of your choice.
3. Prepare a news script of three minute duration.
4. Create a blog/vlog on any two topics of your choice. (eg: Health, Cooking, Travel, Fashion)
5. Write a travel or a personality feature.

Books for Reference:

1. History of Indian Journalism: Nadig Krishnamurthy-University of Mysore press

2. Dilwali, Ashok.(2002).All about photography. New Delhi: National Book Trust.

3. Kobre, Kenneth. (2000). Photojournalism. The professional approach (4th Ed). London: Focal Press

4. Horton, Brian. (2000). Guide to photojournalism. New York: Mc Graw-Hill

5. Chapnick, Howard. (1994). Truth needs no ally: Inside photojournalism. New York: University of Missouri Press

6. British Press Photographers Association. (2007). 5000 Days: Press photography in a changing world. London: David &Charles.

7. Nair, Archana. (2004). All about photography. New Delhi: Goodwill Publishing House.

Weblinks:

https://ohiostate.pressbooks.pub/stratcommwriting/chapter/media-writing-skills/

https://blog.copify.com/post/different-types-of-media-writing

https://india.oup.com/product/writing-for-the-media-9780195699388

https://www.jprof.com/lecture-notes/writing-in-the-media-environment/

https://www.studocu.com/in/document/bangalore-university/ba/writing-for-media-journalism-paper-notes/29654727

https://egyankosh.ac.in/bitstream/123456789/75385/1/Unit-4.pdf

http://14.139.185.6/website/SDE/sde67.pdf

https://kkhsou.ac.in/eslm/E-SLM-for-Learner/5th%20Sem/Bachelor%20Degree/Journalism/Writing%20For%20the%20Media%20c/writing%20for%20the%20media%20English/BLOCK%202/WRITING%20FOR%20THE%20MEDIA%20BLOCK%202.pdf

Course Articulation Matrix - 21OEJOU101

COs/ POS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12
CO1	2	1	1	1	1	1	1	2	2	3	-	2
CO2	2	1	1	1	1	1	1	2	2	3	-	2
CO3	2	1	1	1	1	1	1	2	2	3	-	2
Weighted Average	2	1	1	1	1	1	1	2	2	3	-	2

DSC (2) Syllabus for BA Journalism and Mass Communication

Semester II

Course Code: 211258	Course Title: DSC (2) Computer Applications for Media DSC (2) Computer Applications for Media Practical
Course Credits: 6 (4:0:2) **Total Contact Hours: 56 Hours (Theory)** **56 Hours (Practical)** **Exam Duration: 2½ Hours (Theory)** **3 Hours (Practical)**	**Hours of Teaching/Week: 04 (Theory) + 4 (Practical)** **Formative Assessment Marks:** 40 (Theory) 25 (Practical) **Semester End Examination Marks:** 60 (Theory) 25 (Practical)

Course Outcomes (COs):

CO1.   Ability to learn & understand the basic concepts of Computer basics and fundamentals.

CO2.   Acquire hand-on training in various applications of computers used in print and Electronic Media.

CO3.   Demonstrate the capability of creating and designing the Newspapers.

CO4.   Comprehend the knowledge of Media Applications like PageMaker, Indesign, Photoshop, MS Office, Internet and New Media.

Course Content	Hours
Unit I: Introduction to Computers, Basic Hardware, Computer and Newspaper Production, Software's for Newspaper Production, Internet, DTP, PageMaker, Adobe Indesign, Baraha and Nudi.	**14 hrs.**
Unit II: MS Office: Word, Power Point, Excel – Creating Charts, Graphs, Tables, Use of Computers in Reporting, Editing, Pagination and Printing.	**14 hrs.**
Unit III: Web Journalism, Techniques of Web Writing, Illustrations and Web Designing, Language, Presentation, Multimedia, Online Newspapers, Web Portals	**14 hrs.**
Unit IV: New Media – Definition and Characteristics, Types of New Media – Websites, Blogs, Vlogs, Email, Social Media Networks & OTT Platforms, Types, Techniques & Softwares for Blogging & Vlogging, Cyber Crime, Web Glossary.	**14 hrs.**

DSC (2) LAB – COMPUTER APPLICATIONS FOR MEDIA
(PRACTICAL COMPONENT)

1. Create a blog/vlog on a topic of your choice.
2. Compare any two news/ sports portal of your choice.
3. A review on any recent OTT content of your choice.
4. Present two recent case studies on Cyber Crime.
5. Prepare a lab journal of 2 pages (A3size).

Books for Reference:

1. Sunder, R., 2000. Computers Today Ed.2,JohnWiley,
2. Benedict, M., Cyberspace: First steps, ed. Cambridge, MA. MIT Press.
3. Macintosh, Advanced Adobe Photoshop, Adobe publishers.
4. Satyanarayana, R., Information Technology and its facets, Delhi, Manak2005.
5. Smith, Gene. Tagging: People-powered Metadata for the Social Web, Indianapolis, Indiana: New Riders Press, 2008.

Weblinks:

https://massmediaassignments.wordpress.com/2017/03/11/use-of-computer-in-mass-communication/

https://ccsuniversity.ac.in/bridge-library/pdf/JMC-0305-MJMC-IInd-Sem-IT-AND-COMPUTER-APPLICATION-IN-MASS-MEDIA.pdf

https://rccmindore.com/wp-content/uploads/2015/06/Mass%20Comm%20Comp_481.pdf

https://s3.amazonaws.com/mirror.facultyinfo.unt.edu/cta0023/schteach/33353_1861_2200_001_syllabus.pdf

https://study.com/academy/lesson/the-computer-as-a-mass-communication-tool.html

https://www.slideshare.net/adzlinenurul/title-09-computer-application-in-media-industries-2

https://www.topuniversities.com/blog/25-useful-apps-journalism-students

Course Articulation Matrix - 211258

COs/ POS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12
CO1	3	1	1	1	1	1	1	2	2	2	-	2
CO2	3	1	1	1	1	1	1	2	2	2	-	2
CO3	3	1	1	1	1	1	1	2	2	2	-	2
CO4	3	1	1	1	1	1	1	2	2	2	-	2
Weighted Average	3	1	1	1	1	1	1	2	2	2	-	2

OE (2) Syllabus for BA Journalism and Mass Communication

Semester I

Course Code: 21OEJOU201	**Course Title:** **OE (2) Photo Journalism**

Course Credits: 3 (3:0:0)	**Hours of Teaching/Week: 03 Hours (Theory)**
Total Contact Hours: 42 Hours (Theory)	**Formative Assessment Marks: 40**
Exam Duration: 2½ Hours (Theory)	**Semester End Examination Marks: 60**

Course Outcomes (COs):

CO1.   Ability to learn the history of Photography and Photo Journalism.

CO2.   Acquire the knowledge digital technology in photography and various types of cameras, its components and accessories

CO3.   Inculcate the legal and ethical aspects of photography and photo journalism.

Course Content	Hours
Unit-I Concept of Photography, Evolution of Photography, Different Types of Cameras--Manual, Digital and Phone Cameras, Types of Photography – Portrait, Landscape, Street Photography, Wildlife, News Photography, Celebrity Photography.	**14 hrs.**
Unit-II Meaning of Photo Journalism, Qualifications, Role and Responsibilities of Photo Journalists, Photo Features, Techniques of Photo Editing, Caption Writing, Leading Press Photographers and Photo Journalists in India.	**14 hrs.**
Unit-III Mobile Journalism - Using Smartphone's for News Reporting, Photo Editing on Smart Phones, Publishing News Content using Smartphone's on Digital Platforms, Techniques of Short Film Making.	**14 hrs.**

IA / Assignment Component:

1. Capture Food Photos (5), News Photos (5) Portraits (5) Human Interest

   Pictures/Street Photography (5)

2. Edit & caption 10photographs

3. Create a thematic Photo Montage/Feature with 15photographs.

4. Present a video report on a current issue of your choice.

5. Produce a minimum of a three minute long Short Film.

Books for Reference:

1. Milten Feinberg- Techniques of Photo Journalism
2. Michel Long ford- Basic Photography
3. Tom Ang- Digital Photography- Master classes
4. N Manjunath- Chayachitra Patrikodyama
5. Cyernshem G R- History of Photography

Weblinks:

http://dcac.du.ac.in/documents/E-Resource/2020/Metrial/417NehaJingala2.pdf

https://en.wikipedia.org/wiki/Photojournalism

https://nytlicensing.com/latest/marketing/what-is-photojournalism/

https://www.adobe.com/in/creativecloud/photography/discover/photojournalism.html

https://jmcstudyhub.com/photojournalism-concept-definition-and-characteristics/

https://www.newworldencyclopedia.org/entry/Photojournalism

https://firsthand.co/professions/photojournalists

https://contrastly.com/photojournalism-101/

https://www.careerexplorer.com/careers/photojournalist/

https://ischoolconnect.com/blog/basics-of-photojournalism/

https://in.indeed.com/career-advice/career-development/what-is-photojournalism

https://streetbounty.com/what-is-photojournalism/

https://www.masterclass.com/articles/what-is-photojournalism

https://www.indianetzone.com/5/photojournalism_or_press_photography.htm

Course Articulation Matrix: 21OEJOU201

COs/ POS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12
CO1	2	1	1	1	1	1	1	2	2	3	-	2
CO2	2	1	1	1	1	1	1	2	2	3	-	2
CO3	2	1	1	1	1	1	1	2	2	3	-	2
Weighted Average	2	1	1	1	1	1	1	2	2	3	-	2

Pedagogy and Assessment Pattern for All DSC and OE Papers

Pedagogy:

- Lecture Method – Class Room Teaching
- Learning Through Project Work
- Collaborative Learning Strategies
- Use of Resources Like Audio-Visual aids, Films, Documentaries and PPT Presentations
- Field Visit Projects. Visit to Media Houses: Print, Broadcast, TV Channels and Ad Centers.
- ICT Supplemented Teaching
- Seminar / Guest Lectures / Interaction Sessions //Workshops
- Group Discussions

Modes of Assignment:

- ❖ Individual Assignments
- ❖ Project Work
- ❖ Written Test
- ❖ Documentaries
- ❖ Extension Activities like Field Visit, Internships etc.

SCHEME OF EXAMINATION
B.A- JOURNALISM AND MASS COMMUNICATION (NEP)
(DSC with 6 Credits)
I and II Semester of B.A., (C1-20, C2-20, C3-60 : Total=100 Marks)
Practical: (C1-10, C2-15, C3-25 : Total=50 Marks)
(Each paper shall have TWO components)

THEORY

I.	C1& C2 Internal Assessment	-	**40** Marks	
II.	C3 Theory Component	-	**60** Marks	
		Total -	**100** Marks	

I.   C1& C2 Internal Assessment in Each paper shall have the following sub components.

A)	Internal Test	-	**10** Marks
B)	Assignment/Record	-	**10** Marks
C)	Seminar with Group Discussion	-	**10** Marks
D)	Viva Voice/Curriculum	-	**10** Marks
		Total -	**40 Marks**

II.   C3 Theory Component : Exam   **-**   **60 Marks**

The theory question paper shall have four parts and the maximum duration of the theory part shall be **2 Hours**

PRACTICAL

I.	Internal Assessment	-	**25** Marks
II.	Practical Component	-	**25** Marks
		Total -	**50** Marks

I.   Internal Assessment in Each paper shall have the following sub components.

a) C1   Test   -**10** Marks

b) C2   **BB** - Write any Feature Article on your own Choice - **15** Marks
BB - Preparation of Press Note and Press Release
2 Assignments with Specialized Reporting
   BB - 5 News Script of different types

       Write an Editorial on Current Events and
One Letters to Editor (Published with Byline)

Photographs and Captions (5 Nos)

       Interview any personalities of your own choice

                                Total **-**   **25 Marks**

II.   C3 - Practical Component (Exam, Record & Assignment) **-**   **25 Marks**

QUESTION PAPER PATTERN FOR DSC AND OE
DSC / OE - THEORY:

Time: 2½ hours

Marks: 60

PART - A

I. 1. Answer **ALL** Questions: 10x1=10

a.

b.

c.

d.

e.

f.

g.

h.

i.

j.

PART - B

II. Answer any **FOUR** of the following: 4x5=20

2.

3.

4.

5.

6.

7.

PART - C

III. Answer any **THREE** of the followin   3x10=30

8.

9.

10.

11.

12.

NOTE: Questions must be prepared such that all units are covered.

_____

DSC PRACTICAL

Time: 3 hours   **Marks: 25**

NOTE: Questions for practical examination should be in the form of applied knowledge of the
Theory part.

Board of Studies Members List - Attendance

Name & Designation	Signature

Mr. L. Ravi
Chairperson
HoD & Assistant Professor
SBRR Mahajana First Grade College,
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DOS in Communication & Journalism
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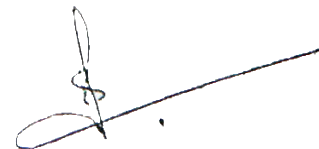
Mr. Keshava Murthy
Member
Guest Lecturer
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Mobile : 9449271480

Dr. C.M. Vinaya Kumar
Expert from Other University
Dept. of Journalism and Mass Communication
Krishna University, Machilipatnam – 521001
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Sri. Mahadevaswamy K.N.
Expert from Other University
HOD & Assistant Professor
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Kuvempu University, BH Road,Shivamogga – 577303
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MEMBERS ABSENT:

Dr. Preethi Kapoor
One Person from Industry/
Corporate Sector / Allied Area
HOD of Photo Journalism
Chamarajendra Government College of Visual Art   **- ABSENT -**
CAVA, Siddhartha Nagar, Mysore-570 011
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Mr. Nikhil Maruthi
Alumnus, Senior Accounts Manager
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2nd Floor, Ashok Mark,   **- ABSENT -**
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Mahajana Education Society (R.)

Education to Excel

SBRR MAHAJANA FIRST GRADE COLLEGE (Autonomous)

Jayalakshmipuram, Mysuru – 570 012

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BOARD OF STUDIES (BoS)

DEPARTMENT OF KANNADA

UG ☑

PG ☐

Revised NEP Syllabi for I and II Semester (All Programs) Kannada 2021-22

DEPARTMENT OF KANNADA

MOTTO

Refine Cultural Values in Students

VISION

Imbibe Values for Promotion of Kannada Language and Literature

MISSION

Awareness of Richness of Kannada Language and Literature through the Age.

Involve Students Actively in Literary and Cultural activities to Orient them towards Society.

Program Outcome (PO) Attributes

PO 1: Domain Knowledge

PO 2: Problem Analysis

PO 3: Design and Development of Solutions

PO 4: Investigation

PO 5: Use of Modern Techniques/Tools

PO 6: Impact on Society

PO 7: Environment and Sustainability

PO 8: Moral and Ethical Values

PO 9: Individual and Team Work

PO 10: Communication

PO 11: Project Management and Finance

PO 12: Life-long Learning

List of BoS Members

Sl. No.	Category	Name and Designation	Address for Communication	E-mail and Mobile No.
1.	Chairperson	Dr. H R Thimmegowda Associated Professor	SBRR Mahajana First Grade College (Autonomous) Mysuru	thimmegowdahr.fgc @mahajana.edu.in **9972798708**
2.	Member	Dr. Vinodamma Assistant Professor	SBRR Mahajana First Grade College (Autonomous) Mysuru	vinodamma123@gmail.com **9964581858**
3.	Nominee by the Vice Chancellor	Dr. Lolakshi N K Professor	Kuvempu Kannada AdhyayanaSamstheMysore University, Mysore	nklolakshi@gmail.com 9480157279
4.	Two experts from other University/ Colleges	Dr. Lingarajaiah Assistant Professor	Vivekananda First Grade College, Rajajinagara, Bengaluru	drblingaraj@gmail.com **9008779997**
		Prof. Honnaganahalli Kariyanna Professor	University Arts College Tumkuru-572103	Kariyannatumkuruniversity @gmail.com **6362854252**
5.	Alumnus	Sri Rajeeva K J Assistant Professor	Government Women First Grade College Vijayanagara, Mysuru	hellorajeeva@gmail.com **9481187919**

ಕನ್ನಡ ಪಠ್ಯಕ್ರಮ ವಿನ್ಯಾಸದ ಆಶಯಗಳು

ಹೊಸ ರಾಷ್ಟ್ರೀಯ ಶಿಕ್ಷಣ ನೀತಿಯ ಆಶಯಗಳಿಗೆ ಅನುಗುಣವಾಗಿ ಕನ್ನಡ ಭಾಷಾ, ಮುಕ್ತ ಆಯ್ಕೆ ಕನ್ನಡ ಪಠ್ಯ ಕ್ರಮಗಳ ವಿನ್ಯಾಸವನ್ನು ರೂಪಿಸಲಾಗಿದೆ. ಕರ್ನಾಟಕದಾದ್ಯಂತ ವಿವಿಧ ವಿಶ್ವವಿದ್ಯಾಲಯಗಳು ಈತನಕ ಅರ್ಥಪೂರ್ಣವಾದ ಹಾಗೂ ವೈವಿಧ್ಯಮಯ ಪಠ್ಯಕ್ರಮಗಳನ್ನು ಅನುಸರಿಸುತ್ತಾ ಬಂದಿವೆ. ಸಾಹಿತ್ಯದ ಮೂಲಗುಣವಾದ ನಿತ್ಯನೂತನತೆಗೆ ಅನುಗುಣವಾಗಿ ಹೊಸತನವನ್ನು ತರಲು ಪ್ರಯತ್ನಿಸಲಾಗಿದೆ. ಈಗ ಹೊಸ ಪಠ್ಯಕ್ರಮದ ಪ್ರಕಾರ ಪ್ರಯೋಗಿಸಲ್ಪಟ್ಟು ಯಶಸ್ವಿಯಾಗಿರುವ ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯವು "ವಿಷಯಾಧಾರಿತ ಪಠ್ಯಕ್ರಮ" (Theme Based)ವನ್ನು ಅಳವಡಿಸಲು ಉದ್ದುಕ್ತವಾಗಿದೆ. ಈ ಮೂಲಕ ಕಲಿಕೆ ಮತ್ತು ಫಲಿತಗಳ ನಡುವಿನ ಸಮತೋಲನವನ್ನು ಸಾಧಿಸುವುದು ಸಾಧ್ಯವಾಗುತ್ತದೆ. ಶಿಕ್ಷಣವು ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಭಾಷಾ ಕೌಶಲ್ಯ, ಸಾಹಿತ್ಯದ ಮಾನವೀಯ ಸಂವೇದನೆ, ಸಮಕಾಲೀನ ವಿದ್ಯಾಮಾನಗಳ ಅರಿವು, ಸಂಸ್ಕೃತಿಯ ಬೆಳಕು ಮತ್ತು ರಾಷ್ಟ್ರೀಯತೆಯ ಮನೋಭಾವವನ್ನು ಕಟ್ಟಿಕೊಡುವುದರಲ್ಲಿ ಯಶಸ್ವಿಯಾಗಬೇಕು ಎನ್ನುವ ಹೊಸ ಶಿಕ್ಷಣ ನೀತಿಯ ಆಶಯವನ್ನು ವಿಷಯಾಧಾರಿತ ಪಠ್ಯಕ್ರಮದ ಮೂಲಕ ಸಾಧಿಸಿಕೊಳ್ಳುವುದು ಸಾಧ್ಯವಾಗುತ್ತದೆ. ಉದಾಹರಣೆಗೆ 'ನಾಡು–ನುಡಿ–ಚಿಂತನೆ'. 'ಸಾಮರಸ್ಯ', 'ಪರಿಸರ ಜಾಗತೀಕರಣ' ಮೊದಲಾದವು ವಿದ್ಯಾರ್ಥಿಗಳಲ್ಲಿ ಉದ್ದೇಶಿತ ಫಲಿತಗಳನ್ನು ನೀಡುತ್ತವೆ. ಹಾಗೆಯೇ ಆಯಾ ಅಧ್ಯಯನ ಶಿಸ್ತುಗಳ ಸ್ವರೂಪಕ್ಕನುಗುಣವಾಗಿ ಒಂದು ಘಟಕವನ್ನು ಸ್ನಾತಕ ಅಧ್ಯಯನ ಮಂಡಳಿಯಲ್ಲಿ ಪರಿಶೀಲಿಸಿ ರೂಪಿಸಿ ಸಿದ್ಧಪಡಿಸಲಾಗಿದೆ.

ಭಾಷಾ ಪಠ್ಯಗಳನ್ನು ನಾಲ್ಕು ಸೆಮಿಸ್ಟರ್‌ಗಳಲ್ಲಿ ಪ್ರಥಮ ಭಾಷೆಯಾಗಿ ಬೋಧಿಸತಕ್ಕದ್ದು, ಪ್ರತಿ ಸೆಮಿಸ್ಟರ್‌ಗೂ 3 ಕ್ರೆಡಿಟ್‌ಗಳು ಹಾಗೂ ನಾಲ್ಕು ಗಂಟೆ ಬೋಧನಾ ಅವಧಿ ಇರುತ್ತದೆ. ಮುಕ್ತ ಆಯ್ಕೆ ಕನ್ನಡ ಪತ್ರಿಕೆಗಳನ್ನು ಎಲ್ಲ ಅಧ್ಯಯನ ಶಿಸ್ತುಗಳ ವಿದ್ಯಾರ್ಥಿಗಳೂ ನಾಲ್ಕು ಸೆಮಿಸ್ಟರ್‌ಗಳಿಗೂ ಆಯ್ಕೆ ಮಾಡಿಕೊಳ್ಳಲು ಅವಕಾಶವಿದೆ.

ಪದವಿ ಕನ್ನಡ ಭಾಷಾ ಪಠ್ಯಗಳು

1) ಕಲಾಗಂಗೋತ್ರಿ (ಬಿ.ಎ. 1 ಮತ್ತು 2ನೇ ಸೆಮ್ ಕನ್ನಡ ಪಠ್ಯ)

2) ವಿಜ್ಞಾನಗಂಗೋತ್ರಿ (ಬಿಎಸ್ಸಿ 1 ಮತ್ತು 2ನೇ ಸೆಮ್ ಕನ್ನಡ ಪಠ್ಯ)

3) ಗಣಕಗಂಗೋತ್ರಿ (ಬಿಸಿಎ 1 ಮತ್ತು 2ನೇ ಸೆಮ್ ಕನ್ನಡ ಪಠ್ಯ)

4) ವಾಣಿಜ್ಯಗಂಗೋತ್ರಿ (ಬಿಕಾಂ 1 ಮತ್ತು 2ನೇ ಸೆಮ್ ಕನ್ನಡ ಪಠ್ಯ)

5) ವ್ಯವಹಾರ ನಿರ್ವಹಣಗಂಗೋತ್ರಿ (ಬಿಬಿಎ 1 ಮತ್ತು 2ನೇ ಸೆಮ್ ಕನ್ನಡ ಪಠ್ಯ)

COURSE STRUCTURE (NEP)
ಎ.ಇ.ಸಿ.ಸಿ. (A.E.C.C – Ability Enhancement Compulsory Course)

I Year

Course Type, Code and Title	Hours/ Week		Credits	Maximum Marks			Exam Duration	Total Marks
				IA		Exam		
	L	T/P	L: T:P	C1	C2	C3		
Kannada – I Sem								
AECC(1)	ಕನ್ನಡ ಭಾಷೆ ಪತ್ರಿಕೆ–1 **BA:** 22KAN101 **BSc:** 22KAN102 **BCom:** 22KAN103 **BBA (All):** 22KAN104 **BCA:** 22KAN105	2	2	2:1:0 (3 Credits)	20	20	60	$2\frac{1}{2}$ Hour	100
OE(1)	ಕನ್ನಡವ್ಯಾಕರಣ **22OEKAN101**	3	-	3:0:0 (3 Credits)	20	20	60	$2\frac{1}{2}$ Hour	100
Kannada – II Sem								
AECC(2)	ಕನ್ನಡ ಭಾಷೆ ಪತ್ರಿಕೆ–2 **BA:** 22KAN201 **BSc:** 22KAN202 **BCom:** 22KAN203 **BBA (All):** 22KAN204 **BCA:** 22KAN205	2	2	2:1:0 (3 Credits)	20	20	60	$2\frac{1}{2}$ Hour	100
OE(2)	ಆಡಳಿತಾತ್ಮಕ ಕನ್ನಡ **22OEKAN201**	3	-	3:0:0 (3 Credits)	20	20	60	$2\frac{1}{2}$ Hour	100

ಅನುಬಂಧ

ರಾಷ್ಟ್ರೀಯ ಶಿಕ್ಷಣ ನೀತಿ–2020

ಕನ್ನಡ ಭಾಷಾ ಪಠ್ಯ ಸ್ವರೂಪ

ಪ್ರೋಗ್ರಾಂವಾರು ಕನ್ನಡ ಭಾಷಾ ಪಠ್ಯಕ್ರಮ :

ಶೈಕ್ಷಣಿಕ ವ್ಯವಸ್ಥೆಯಲ್ಲಿ ಭಾಷಾ ಪಠ್ಯಗಳು ಮತ್ತು ಭಾಷಾ ಅಧ್ಯಾಪಕರ ಜವಾಬ್ದಾರಿ ಎಲ್ಲರಿಗೂ ಗೊತ್ತಿರುವುದೇ ಆಗಿದೆ. ಹಲವು ಬಗೆಯ ಬಿಕ್ಕಟ್ಟುಗಳು ಮತ್ತು ವಿಷಮತೆಗಳು ಹೆಚ್ಚುತ್ತಿರುವ ಈ ಕಾಲಘಟ್ಟದಲ್ಲಿ ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ಪ್ರಜ್ಞಾವಂತರನ್ನಾಗಿ, ಸಂವೇದನಾಶೀಲರನ್ನಾಗಿ ಮಾಡುವ ಅವಕಾಶ ಭಾಷಾ ಪಠ್ಯಗಳಲ್ಲಿ ಇರುತ್ತದೆ. ಆ ಅವಕಾಶವನ್ನು ಎಂದಿನಿಂದಲೂ ಭಾಷಾ ಪಠ್ಯ ಮಂಡಳಿಗಳು ಆಸ್ಥೆಯಿಂದ ನಿಭಾಯಿಸುತ್ತಲೇ ಬಂದಿವೆ.

ಹೊಸ ಶಿಕ್ಷಣ ನೀತಿಯ ಅನುಷ್ಠಾನದ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ರಚಿಸಲಾದ ಸಮಿತಿಯು ಇದನ್ನೇ ಬುನಾದಿಯಾಗಿಸಿಕೊಂಡು ಪಠ್ಯಕ್ರಮವನ್ನು ಕುರಿತ ನಕಾಶೆಯನ್ನು ರಚಿಸಿದೆ. ಕನ್ನಡವನ್ನು 'ಜ್ಞಾನದ ಭಾಷೆ'ಯಾಗಿ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ನೀಡಬೇಕೆನ್ನುವುದು ಸಮಿತಿಯ ಆಶಯ. ಹೊಸ ರಾಷ್ಟ್ರೀಯ ಶಿಕ್ಷಣ ನೀತಿಯು ಈ ಅಂಶವನ್ನೇ ಉದ್ಯೋಗ ಮತ್ತು ಕೌಶಲ್ಯಗಳು ಶಿಕ್ಷಣದ ಮುಖ್ಯ ಗುರಿ ಎಂದು ಹೇಳಿದೆ. ಹೀಗಾಗಿ ತಾಯಿ ಭಾಷೆ ಕನ್ನಡದ ಮೂಲಕ ವಿದ್ಯಾರ್ಥಿಗಳು ಸ್ಥಳೀಯ, ರಾಷ್ಟ್ರೀಯ ಮತ್ತು ಜಾಗತೀಯ ಸವಾಲುಗಳನ್ನು ಸನ್ನದ್ಧರಾಗುವ ಬಗೆಯಲ್ಲಿ ಪಠ್ಯಕ್ರಮದ ವಿನ್ಯಾಸವನ್ನು ರೂಪಿಸಲಾಗಿದೆ. ಜಾಗತೀಕರಣವೂ ಸೇರಿದಂತೆ ಹಲವು ವಿದ್ಯಮಾನಗಳು ನಮ್ಮ ಸಾಮಾಜಿಕ ಮತ್ತು ಸಾಂಸ್ಕೃತಿಕ ಸನ್ನಿವೇಶಗಳನ್ನು ಸಮೀಕರಣಗಳನ್ನು, ಗ್ರಹಿಕೆಗಳನ್ನು ಆಳವಾಗಿ ಪ್ರಭಾವಿಸುತ್ತಿವೆ. ಇವು ನಮ್ಮ ಯುವ ತಲೆಮಾರುಗಳನ್ನು ತಮ್ಮ ಬೇರುಗಳಿಂದಲೇ ದೂರ ಮಾಡುತ್ತಾ ಅವರನ್ನು ಪರಕೀಯರನ್ನಾಗಿಸುತ್ತಿದೆ ಎನ್ನುವ ಆತಂಕ ಅಧ್ಯಾಪಕರನ್ನು ಕಾಡುತ್ತಿದೆ. ಈ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ನಾಡು–ನುಡಿ, ಜಲ, ಭೂಮಿ, ಸಮಕಾಲೀನ ಸವಾಲುಗಳನ್ನು ಕನ್ನಡದ ಅತ್ಯುತ್ತಮ ಪಠ್ಯಗಳ ಮುಖಾಂತರ ಕಲಿಸಬಹುದೆನ್ನುವ ನಂಬಿಕೆ ಈ ಸಮಿತಿಯದ್ದು. ವಿದ್ಯಾರ್ಥಿಗಳಲ್ಲಿ ಸಾಹಿತ್ಯಕ ಅಭಿರುಚಿಯನ್ನು ಹೆಚ್ಚಿಸಬೇಕು, ಭಾಷೆ ಮತ್ತು ಸಾಹಿತ್ಯಗಳನ್ನು ಕುರಿತ ಪ್ರೀತಿಯನ್ನು ಹೆಚ್ಚಿಸಬೇಕು ಎನ್ನುವುದು ಪಠ್ಯಗಳ ಒಂದು ಆಯಾಮವಾದರೆ, ಮತ್ತೊಂದು ಆಯಾಮವು ನಮ್ಮ ಸಮೃದ್ಧ ಸಾಂಸ್ಕೃತಿಕ, ಸಾಹಿತ್ಯಕ ಪರಂಪರೆಯ ಅರಿವೂ ಅವರಲ್ಲಿ ಮೂಡಬೇಕೆನ್ನುವುದು. ಎರಡು ವರ್ಷಗಳ ಪಠ್ಯಗಳಲ್ಲಿ ಅವರಲ್ಲಿ ನಾಗರಿಕ ವ್ಯಕ್ತಿತ್ವದ ಧಾತುಗಳನ್ನು ತುಂಬಬೇಕು. ಸಾಹಿತ್ಯದ ಅಂತಃಕರಣ ಮತ್ತು ಸಾಮಾಜಿಕ ವ್ಯಕ್ತಿತ್ವದ ಬೌದ್ಧಿಕ ಅರಿವು ಅವರಲ್ಲಿ ಸಮನಾಗಿ ಬೆಳೆಯುತ್ತಾ ಹೋಗಬೇಕು. ಇವುಗಳಲ್ಲದೆ ಕನ್ನಡವು ಅವರ ವೃತ್ತಿಯ ದಾರಿಯೂ ಆಗಬೇಕು. ಹಲವು ವೃತ್ತಿಗಳನ್ನು ಅವರು ಅರಿಸಿಕೊಳ್ಳಲು ಅನುವಾಗುವ ಪಠ್ಯಕ್ರಮವೂ ಸೇರಬೇಕು. ಈ ಎಲ್ಲ ಅಂಶಗಳನ್ನು ಗಮನದಲ್ಲಿಟ್ಟುಕೊಂಡು ಸಮಿತಿಯು 'ವಿಷಯಾಧಾರಿತ ಪಠ್ಯ'ವನ್ನು ರೂಪಿಸಿದೆ.

ಬಿ.ಎ.

ಸೆಮಿಸ್ಟರ್–1

Course Code: 21KAN101	**Course Title:** ಕನ್ನಡಭಾಷೆ – 1
Course Credits (L:T:P): 03 (2:1:0)	**Hours of Teaching/Week:** 02 (Theory) + 02 (Tutorials)
Total Contact Hours: 56 Hours	**Formative Assessment Marks:** 40
Exam Duration: $2\frac{1}{2}$ Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO 1: ಕನ್ನಡಭಾಷೆ ಮತ್ತು ಸಾಹಿತ್ಯದ ಶ್ರೀಮಂತಿಕೆಯನ್ನು ಅರಿತು ಕನ್ನಡ ನಾಡು–ನುಡಿಯ ರಕ್ಷಣೆಗೆ ಸದಾ ಸಿದ್ಧರಾಗಿರುತ್ತಾರೆ.

CO 2: ಬಾಲ್ಯದ ಅನುಭವಗಳನ್ನು ಮೆಲುಕುಹಾಕುವುದರೊಂದಿಗೆ ಸದೃಢ ಬೌದ್ಧಿಕ ಮತ್ತು ಮಾನವೀಯ ವ್ಯಕ್ತಿತ್ವ ನಿರ್ಮಿಸಿಕೊಳ್ಳುವರು.

CO 3: ಮಾನವ ಮತ್ತು ಪ್ರಕೃತಿ ನಡುವಿನ ಅವಿನಾಭಾವ ಸಂಬಂಧವನ್ನು ಅರಿತು, ಪ್ರಕೃತಿ ಸಂರಕ್ಷಣೆಯಲ್ಲಿ ಭಾಗಿಯಾಗುತ್ತಾರೆ.

CO 4: ಲಿಂಗಸಮಾನತೆ ಮನೋಭಾವವನ್ನು ಬೆಳೆಸಿಕೊಳ್ಳುತ್ತಾರೆ.

ಫಟಕ–1 ಕನ್ನಡ ನಾಡು – ನುಡಿ ಚಿಂತನೆ   **14 ಗಂಟೆಗಳು**

1. ಕನ್ನಡಮೆನಿಪ್ಪಾ ನಾಡು ಚೆಲ್ವಾಯ್ತು   – (ವಿವಿಧ ಕಾವ್ಯಗಳಿಂದ ಆಯ್ದ ಪದ್ಯಗಳು)

2. ಹೊಯಿಸಳನ ದಳಪತಿ   – ಮಾಸ್ತಿ ವೆಂಕಟೇಶ ಅಯ್ಯಂಗಾರ್

3. ತನ್ನನ್ನು ತಿಳಿದುಕೊಳ್ಳಬೇಕಾದ ಕರ್ನಾಟಕ   – ಪಾಟೀಲ ಪುಟ್ಟಪ್ಪ

ಫಟಕ–2 ಬಾಲ್ಯ   **14 ಗಂಟೆಗಳು**

1. ಋತುಸಂಹಾರ   – ಡಾ. ಬಂಜಗೆರೆ ಜಯಪ್ರಕಾಶ

2. ಪಿಗ್ಮಿ ಏಜೆಂಟ್ ಮತ್ತು ಗಾಂಧಿ ಜೋಗತಿ   – ಮಂಜಮ್ಮ ಜೋಗತಿ

                 (ನಿರೂಪಣೆ : ಅರುಣ್ ಜೋಳದ ಕೂಡ್ಲಿಗಿ)

3. ಕೇಳದ ಕಾಣದ ಸಂಗತಿಗಳು   – ಸಿದ್ಧಲಿಂಗಯ್ಯ

ಫಟಕ–3 ಪ್ರಕೃತಿ   **14 ಗಂಟೆಗಳು**

1. ಮಲ್ಲಿಗೆ   – ಜಿ.ಎಸ್. ಶಿವರುದ್ರಪ್ಪ

2. ಯದುಗಿರಿಯ ಮೌನ ವಿಕಾಸ   – ಪು.ತಿ.ನ

3. ನೌರು ದ್ವೀಪದ ದುರಂತ   – ಕೆ.ಪಿ.ಪೂರ್ಣಚಂದ್ರ ತೇಜಸ್ವಿ

ಫಟಕ–4 ಸಂಕೀರ್ಣ   **14 ಗಂಟೆಗಳು**

1. ಗಾರ್ಮೆಂಟ್ ಹುಡುಗಿ ಹೊಲಿದ ಚೆಂದದ ಪೋಷಾಕು   – ಡಾ. ಸಬಿತಾ ಬನ್ನಾಡಿ

2. ನವಿಲುಗಳು   – ಯು.ಆರ್.ಅನಂತಮೂರ್ತಿ

3. ಒಮ್ಮೆ ಹೆಣ್ಣಾಗು ಪ್ರಭುವೇ   – ಬಾನು ಮುಷ್ತಾಕ್

ಪಠ್ಯಪುಸ್ತಕ : ಕಲಾಗಂಗೋತ್ರಿ – 1

Course Articulation Matrix – 21KAN101

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	2	3	2	3	3	3	2	2
CO 2	3	3	3	2	-	3	-	3	2	3	2	2
CO 3	3	3	3	2	3	3	3	2	2	2	2	2
CO 4	3	3	3	2	2	2	1	3	2	2	1	2
Weighted Average	3	3	3	2.25	2.33	2.75	2	2.75	2.25	2.5	1.75	2

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Course Code: 21KAN201	**Course Title:** ಕನ್ನಡಭಾಷೆ – 2
Course Credits (L:T:P): 03 (2:1:0)	**Hours of Teaching/Week:** 02 (Theory) + 02 (Tutorials)
Total Contact Hours: 56 Hours	**Formative Assessment Marks:** 40
Exam Duration: $2\frac{1}{2}$ Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO 1. ತಮ್ಮ ಬದುಕಿನಲ್ಲಿ ದೇಶಿಯತೆಗೆ ಪ್ರಾಧ್ಯಾನತೆಯನ್ನು ನೀಡುತ್ತಾರೆ.

CO 2. ಜವಾಬ್ದಾರಿಯುತ ನಾಗರೀಕರಾಗುತ್ತಾರೆ.

CO 3. ಬದುಕಿನಲ್ಲಿ ಪ್ರೀತಿಸುವ ಗುಣವನ್ನು ಬೆಳೆಸಿಕೊಳ್ಳುವರು

CO 4. ಸಾಮಾಜಿಕ ಸಾಮರಸ್ಯವನ್ನು ಕಲಿತು, ಪರಂಪರೆಯ ಪೋಷಕರಾಗುತ್ತಾರೆ.

ಘಟಕ–1 ಜಾಗತೀಕರಣ   **14 ಗಂಟೆಗಳು**

1. ಕುಂಟೋಬಿಲ್ಲೆ   –   ಎ.ಕೆ.ರಾಮಾನುಜನ್

2. ಬಿಡುಗಡೆ   –   ಚಂದ್ರಕಾಂತ ವಡ್ಡು

3. ಶಹರದ ಕೊಂಬೆಗಳಲ್ಲಿ ಹಳದಿ ಎಲೆಗಳು   –   ಜಯಂತ ಕಾಯ್ಕಿಣಿ

ಘಟಕ–2 ಸಮಾಜ   **14 ಗಂಟೆಗಳು**

1. ರೊಟ್ಟಿ ಮತ್ತು ಕೋವಿ   – ಸು.ರಂ.ಎಕ್ಕುಂಡಿ

2. ಬಜ್ಜೇಸು   – ದು.ಸರಸ್ವತಿ

3. ನಾನ್ಯಾರಿಗಲ್ಲದವಳು   – ಜಿ.ವಿ.ಆನಂದಮೂರ್ತಿ

ಘಟಕ–3 ಪ್ರೀತಿ   **14 ಗಂಟೆಗಳು**

1. ಬಾರೆ, ನನ್ನ ಶಾರದೆ   – ಕೆ.ಎಸ್.ನರಸಿಂಹಸ್ವಾಮಿ

2. ಅವ್ವ   – ಬೆಸಗರಹಳ್ಳಿ ರಾಮಣ್ಣ

3. ವೆಂಕಟಿಗನ ಹೆಂಡತಿ   – ಮಾಸ್ತಿ

ಘಟಕ–4 ಸಂಕೀರ್ಣ   **14 ಗಂಟೆಗಳು**

1. ಭಿನ್ನ ಭೇದವ ಮಾಡಬ್ಯಾಡಿರೊ   – ಅಜ್ಞಾತ ತತ್ವಪದಕಾರ

2. ಪರಂಪರೆ   – ಡಾ.ವಿಜಯಾ ದಬ್ಬೆ

3. ಸಂಬಳಕ್ಕೆ ಸಿಕ್ಕಿಕೊಂಡ ದೆವ್ವ   – ಪೂರ್ಣಚಂದ್ರ ತೇಜಸ್ವಿ

ಪಠ್ಯಪುಸ್ತಕ : ಕಲಾಗಂಗೋತ್ರಿ – 2

Course Articulation Matrix – 21KAN201

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	2	2	1	3	2	3	2	2	2	2
CO 2	3	3	3	2	2	3	3	3	2	2	2	2
CO 3	3	3	2	2	1	3	3	3	2	2	2	2
CO 4	3	3	3	2	2	3	1	3	3	3	3	2
Weighted Average	**3**	**3**	**2.5**	**2**	**1.5**	**3**	**2.25**	**3**	**2.25**	**2.25**	**2.25**	**2**

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ಸೆಮಿಸ್ಟರ್–1

Course Code: 21KAN102	**Course Title:** ಕನ್ನಡಭಾಷೆ – 1
Course Credits (L:T:P): 03 (2:1:0)	**Hours of Teaching/Week:** 02 (Theory) + 02 (Tutorials)
Total Contact Hours: 56 Hours	**Formative Assessment Marks:** 40
Exam Duration: $2\frac{1}{2}$ Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO 1. ಕನ್ನಡಭಾಷೆ ಮತ್ತು ಸಾಹಿತ್ಯದ ಶ್ರೀಮಂತಿಕೆಯನ್ನು ಅರಿತು ಕನ್ನಡ ನಾಡು–ನುಡಿಯ ಬಗ್ಗೆ ಅಭಿಮಾನ ಹೊಂದುವರು.

CO 2. ಭೂಮಿಯ ಮಹತ್ವ ತಿಳಿದು, ಭೂಮಿಯ ಸಂರಕ್ಷಣೆಯಲ್ಲಿ ತೊಡಗುತ್ತಾರೆ.

CO 3. ಜೀವನದಲ್ಲಿ ಮೌಢ್ಯತೆಯನ್ನು ಕಳೆದುಕೊಂಡು, ವೈಚಾರಿಕ ಬದುಕಿಗೆ ಆದ್ಯತೆ ನೀಡುತ್ತಾರೆ.

CO 4. ಮಾನವೀಯ ಮೌಲ್ಯಗಳನ್ನು ಮೈಗೂಡಿಸಿಕೊಳ್ಳುತ್ತಾರೆ.

ಘಟಕ : 1 ಕನ್ನಡ ನಾಡು ನುಡಿ ಚಿಂತನೆ   **14 ಗಂಟೆಗಳು**

1. ಕನ್ನಡ ಪದಗೊಳ್   – ಜಿ.ಪಿ. ರಾಜರತ್ನಂ
2. ಬೆಂಕಿ ಬಿದ್ದಿದೆ ಮನೆಗೆ   – ಕಯ್ಯಾರ ಕಿಞ್ಞಣ್ಣ ರೈ
3. ಹೊಯಿಸಳನ ದಳಪತಿ   – ಮಾಸ್ತಿ ವೆಂಕಟೇಶ ಅಯ್ಯಂಗಾರ್

ಘಟಕ : 2 ಭೂಮಿ   **14 ಗಂಟೆಗಳು**

1. ಹೊನ್ನ ಬಿತ್ತೇವು ಹೊಲಕ್ಕೆಲ್ಲ   – ಜನಪದ
2. ಚಿಗರಿಗಂಗಳ ಚೆಲುವಿ   – ದ.ರಾ. ಬೇಂದ್ರೆ
3. ಬುಲ್ಡೋಜರ್ ಸಂಸ್ಕೃತಿ   – ನಾಗೇಶ್ ಹೆಗಡೆ

ಘಟಕ : 3 ವೈಜ್ಞಾನಿಕ ಮನೋಧರ್ಮ   **14 ಗಂಟೆಗಳು**

1. ಒಂದೇ ಒಂದು ಬಾರಿ ಹೊರಬನ್ನಿ   – ಬಿ.ಟಿ. ಲಲಿತಾ ನಾಯಕ್
2. ಕತ್ತೆ ಮತ್ತು ಧರ್ಮ   – ಸಿದ್ಧಲಿಂಗಯ್ಯ
3. ವಿಚಾರ ಕ್ರಾಂತಿಗೆ ಆಹ್ವಾನ   – ಕುವೆಂಪು

ಘಟಕ : 4 ಸಂಕೀರ್ಣ   **14 ಗಂಟೆಗಳು**

1. ಚರಿತ್ರೆಯೆಂದರೆ...   – ಎಚ್.ಎಸ್. ಅನುಪಮ
2. 'ಇಲ್ಲಿ ಯಾರೂ ಮುಖ್ಯರಲ್ಲ, ಯಾರೂ ಅಮುಖ್ಯರಲ್ಲ'   – ಕೃಪಾಕರ ಸೇನಾನಿ
3. ಅಂಗುಲಿಮಾಲ ಪುಣ್ಯಾಕ್ಷನಾದದ್ದು   – ಪ್ರಭುಶಂಕರ

ಪಠ್ಯಪುಸ್ತಕ : ವಿಜ್ಞಾನಗಂಗೋತ್ರಿ – 1

Course Articulation Matrix – 21KAN102

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	2	2	2	3	2	3	2	2	2	2
CO 2	3	2	3	2	2	3	2	3	2	2	2	2
CO 3	3	3	3	2	2	3	2	3	1	1	1	2
CO 4	3	3	2	2	-	3	2	3	2	2	2	2
Weighted Average	3	2.75	2.5	2	2	3	2	3	1.75	1.75	1.75	2

ಸೆಮಿಸ್ಟರ್–2

Course Code: 21KAN202	**Course Title:** ಕನ್ನಡಭಾಷೆ – 2
Course Credits (L:T:P): 03 (2:1:0)	**Hours of Teaching/Week:** 02 (Theory) + 02 (Tutorials)
Total Contact Hours: 56 Hours	**Formative Assessment Marks:** 40
Exam Duration: $2\frac{1}{2}$ Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO 1. ಬದುಕಿನಲ್ಲಿ ಬರಬಹುದಾದ ಯಾವುದೇ ಕಷ್ಟ–ಸುಖಗಳನ್ನು ಸಮಾನವಾಗಿ ಸ್ವೀಕರಿಸುವ ಮನೋಧರ್ಮ ಬೆಳೆಸಿಕೊಳ್ಳುವರು.

CO 2. ಜೀವನದಲ್ಲಿ ಉತ್ತಮ ಕನಸುಗಳನ್ನು ಕಾಣುವುದರೊಂದಿಗೆ ಅವುಗಳನ್ನು ಸಾಕಾರಗೊಳಿಸು ಕಡೆ ಸದಾ ಕಾರ್ಯಪ್ರವೃತ್ತರಾಗಿರುತ್ತಾರೆ.

CO 3. ಪ್ರಕೃತಿಯ ಜೀವಸಂಕುಲದ ಬಹುಮುಖ್ಯ ಭಾಗವಾದ ಮಳೆಯ ಮಹತ್ವವನ್ನು ಅರಿಯುತ್ತಾರೆ.

CO 4. ಮಾಹಿತಿ ತಂತ್ರಜ್ಞಾನ ಕ್ಷೇತ್ರದಲ್ಲಿ ಕನ್ನಡಭಾಷೆ ಮತ್ತು ಸಾಹಿತ್ಯದ ಬಳಕೆಯನ್ನು ಕಲಿಯುತ್ತಾರೆ.

ಘಟಕ : 1 ಜೀವನ ಕಲೆ   **14 ಗಂಟೆಗಳು**

1. ಸಂಬಳದ ಸಂಜೆ   – ಕೆ.ಎಸ್. ನರಸಿಂಹಸ್ವಾಮಿ
2. ಅವ್ವ   – ಪಿ. ಲಂಕೇಶ್
3. ಚಂದ್ರನ ಬೊಂಬೆ ಪಾಠಗಳು   – ನಟರಾಜ್ ಹುಳಿಯಾರ್
   ('ಕಾಮನ ಹುಣ್ಣಿಮೆ' ಕಾದಂಬರಿಯ ಆಯ್ದ ಭಾಗ)

ಘಟಕ : 2 ಕನಸು   **14 ಗಂಟೆಗಳು**

1. ತಿರುಕನ ಕನಸು   – ಮುಪ್ಪಿನ ಷಡಕ್ಷರಿ
2. ಒಂದು ಹುಡುಗನಿಗೆ ಬಿದ್ದ ಕನಸು   – ಬೆಸಗರಹಳ್ಳಿ ರಾಮಣ್ಣ
3. ಕನಸು ಕಾಣಿರಿ– ಕನಸುಗಳ ಶಕ್ತಿ   – ಎ.ಪಿ.ಜೆ. ಅಬ್ದುಲ್ ಕಲಾಂ

ಘಟಕ : 3 ಮಳೆ   **14 ಗಂಟೆಗಳು**

1. ತೆಂಕಣಗಾಳಿಯಾಟ   – ಪಂಜೆ ಮಂಗೇಶರಾಯ
2. ಬರ   – ಯು.ಆರ್. ಅನಂತಮೂರ್ತಿ
3. ಮೋಡ ಬಿತ್ತನೆ ಮತ್ತು ಕೃತಕಮಳೆ   – ಪ್ರೊ.ಕೆ.ಭೈರಪ್ಪ

ಘಟಕ : 4 ಸಂಕೀರ್ಣ   **14 ಗಂಟೆಗಳು**

1. ಗೂನಮ್ಮನ ಮೆಡಿಸನ್   – ಕೇಶವರೆಡ್ಡಿ ಹಂದ್ರಾಳ
2. ಮಾಹಿತಿ ತಂತ್ರಜ್ಞಾನ ಮತ್ತು ಕನ್ನಡ   – ಟಿ.ಜಿ. ಶ್ರೀನಿಧಿ
3. ಕೀಟದಿಂದ ಕೋಟಿ ನಾಶ   – ಶಿವಾನಂದ ಕಳವೆ

ಪಠ್ಯಪುಸ್ತಕ : ವಿಜ್ಞಾನಗಂಗೋತ್ರಿ – 2

Course Articulation Matrix - 21KAN202

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	2	2	2	3	-	3	2	2	2	2
CO 2	3	3	3	3	2	3	1	3	-	2	2	2
CO 3	3	3	2	2	2	3	3	3	2	2	2	2
CO 4	3	3	2	2	3	3	1	3	2	2	2	2
Weighted Average	**3**	**3**	**2.25**	**2.25**	**2.25**	**3**	**1.66**	**3**	**2**	**2**	**2**	**2**

ಸೆಮಿಸ್ಟರ್–1

Course Code: 21KAN103	Course Title: ಕನ್ನಡಭಾಷೆ – 1
Course Credits (L:T:P): 03 (2:1:0)	Hours of Teaching/Week: 02 (Theory) + 02 (Tutorials)
Total Contact Hours: 56 Hours	Formative Assessment Marks: 40
Exam Duration: $2\frac{1}{2}$ Hours	Semester End Examination Marks: 60

Course Outcomes (COs):

CO 1. ಕನ್ನಡ ನಾಡು–ನುಡಿಯ ಏಳಿಗೆಗಾಗಿ ಶ್ರಮಿಸುತ್ತಾರೆ.

CO 2. ಬದುಕಿನಲ್ಲಿ ಸಹಿಷ್ಣುತಾ ಗುಣವನ್ನು ಬೆಳೆಸಿಕೊಳ್ಳುವರು.

CO 3. ದೇಶಿ ಬದುಕಿನೆಡೆಗೆ ಮುಖ ಮಾಡುತ್ತಾರೆ.

CO 4. ನಿಸ್ವಾರ್ಥಗುಣವನ್ನು ಮೈಗೂಡಿಸಿಕೊಳ್ಳುತ್ತಾರೆ.

ಘಟಕ–1 ಕನ್ನಡ ನಾಡು – ನುಡಿ ಚಿಂತನೆ   14 ಗಂಟೆಗಳು

1. ಕನ್ನಡಾಂಬೆಯ ಹಿರಿಮೆ   –   ಬೆನಗಲ್ ರಾಮರಾವ್
2. ಕಟ್ಟುವೆವು ನಾವು   –   ಗೋಪಾಲಕೃಷ್ಣ ಅಡಿಗ
3. ಡಾ. ರಾಜ್‌ಕುಮಾರ್ ಎಂಬ ಬೆವರಿನ ಮನುಷ್ಯ   –   ಬರಗೂರು ರಾಮಚಂದ್ರಪ್ಪ

ಘಟಕ–2 ಸಂಸ್ಕೃತಿ   14 ಗಂಟೆಗಳು

1. ಅಮ್ಮ, ಆಚಾರ ನಾನು   –   ಕೆ.ಎಸ್. ನಿಸಾರ್ ಅಹಮದ್
2. ವೀರಮಾನ್ಯ   –   ಬೆಟಗೇರಿ ಕೃಷ್ಣಶರ್ಮ
3. ಜಲಗಾರ ನಾಟಕದ ಆಯ್ದಭಾಗ (ಮೊದಲ ದೃಶ್ಯ)   –   ಕುವೆಂಪು

ಘಟಕ–3 ಜಾಗತೀಕರಣ   14 ಗಂಟೆಗಳು

1. ಗಿರಣಿ ವಿಸ್ತಾರ ನೋಡಮ್ಮ   –   ಶಿಶುನಾಳ ಶರೀಫ
2. ಹುಲಿ ಸವಾರಿ   –   ವಿವೇಕಶಾನಭಾಗ
3. ನಾನ್ಯಾರಿಗಲ್ಲದವಳು   –   ಜಿ.ಪಿ. ಆನಂದಮೂರ್ತಿ

ಘಟಕ – 4 ಸಂಕೀರ್ಣ   14 ಗಂಟೆಗಳು

1. ದಿಕ್ಕಿಲ್ಲದ ಹಾಡು   –   ಡಾ. ಚೆನ್ನಣ್ಣವಾಲೀಕಾರ
2. ಪೂರ್ಣತೆಯ ಪರಮ ಕಲೆ   –   ಕೆ.ಸಿ. ಶಿವಪ್ಪ
3. ಕುಣಿಯುವ ಕುರುಡ ಕಾಂಚಾಣ   –   ಪ್ರೊ.ಜಿ. ಚಂದ್ರಶೇಖರ

ಪಠ್ಯಪುಸ್ತಕ : ವಾಣಿಜ್ಯಗಂಗೋತ್ರಿ – 1

Course Articulation Matrix – 21KAN103

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	2	2	2	3	2	3	2	3	2	3
CO 2	3	3	2	2	1	3	2	3	-	-	-	2
CO 3	3	3	2	2	2	3	2	3	2	2	2	2
CO 4	3	3	3	2	2	3	3	3	1	1	1	2
Weighted Average	3	3	2.25	2	1.75	3	2.25	3	1.66	2	1.66	2.25

ಬಿ.ಕಾಂ.

ಸೆಮಿಸ್ಟರ್–2

Course Code: 21KAN203	**Course Title:** ಕನ್ನಡಭಾಷೆ – 2
Course Credits (L:T:P): 03 (2:1:0)	**Hours of Teaching/Week:** 02 (Theory) + 02 (Tutorials)
Total Contact Hours: 56 Hours	**Formative Assessment Marks:** 40
Exam Duration: $2\frac{1}{2}$ Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO 1. ಪ್ರಕೃತಿ ಸೌಂದರ್ಯದ ಆರಾಧಕರಾಗುತ್ತಾರೆ.

CO 2. ವೈಜ್ಞಾನಿಕ ಮನೋಭಾವ ಬೆಳೆಸಿಕೊಳ್ಳುತ್ತಾರೆ.

CO 3. ಪರಿಸರದ ಬಗ್ಗೆ ಕಾಳಜಿ ಹೊಂದುವರು.

CO 4. ವಾಣಿಜ್ಯಪತ್ರ ಹಾಗೂ ವರದಿ ತಯಾರಿಸುವುದನ್ನು ಕಲಿಯುತ್ತಾರೆ.

ಘಟಕ : 1 ಸೌಂದರ್ಯ   14 ಗಂಟೆಗಳು

1. ಇಬ್ಬನಿಯ ಅವತಾರ!   – ಕುವೆಂಪು
2. ಮಂಕುತಿಮ್ಮನ ಕಗ್ಗ (ಆಯ್ದಭಾಗ)   – ಡಿವಿಜಿ
3. ತೊಳೆದ ಮುತ್ತು   – ಕೆರೂರು ವಾಸುದೇವಾಚಾರ್ಯ

ಘಟಕ : 2 ಭಕ್ತಿ   14 ಗಂಟೆಗಳು

1. ಭಕ್ತಿಯೆಂಬ ಪೃಥ್ವಿಯ ಮೇಲೆ.. (ವಚನಗಳು)   – ಬಸವೇಶ್ವರ
2. ಹರಕೆಗಳು (ಪ್ರಬಂಧ)   – ಎ.ಎನ್. ಮೂರ್ತಿರಾವ್
3. ಹಬ್ಬ ಮತ್ತು ಬಲಿ   – ಬಿ.ಟಿ. ಲಲಿತಾನಾಯಕ್

ಘಟಕ : 3 ದೇಸಿಯತೆ   14 ಗಂಟೆಗಳು

1. ಗ್ರಾಮದೇವತೆ   – ಡಾ. ಸಿದ್ಧಲಿಂಗಯ್ಯ
2. ಕಥೆ ಹೇಳು ಗುಬ್ಬಚ್ಚಿ ನಿನ್ನ ವ್ಯಥೆಯ ಕಥೆ ಹೇಳು – ಕೆ.ಎಸ್. ನಿಸಾರ್ ಅಹಮದ್
3. ಬಕಾಸುರನನ್ನು ಕೊಂದ ಪರ್ವ   – ಡಾ.ಪಿ.ಕೆ.ರಾಜಶೇಖರ
   (ಜನಪದ ಮಹಾಭಾರತ)

ಘಟಕ : 4. ಸಂಕೀರ್ಣ   14 ಗಂಟೆಗಳು

1. ಅ) ವಾಣಿಜ್ಯ ಪತ್ರಗಳು
   ಆ) ವರದಿಗಳು
2. ಮಾರುಕಟ್ಟೆ ನಿರ್ವಹಣೆಯಲ್ಲಿ ಜಾಹೀರಾತುಗಳ ಪಾತ್ರ
3. ಉದ್ಯಮ ಲೋಕದ ಸಾಧಕರು (ಜೆ.ಆರ್,ಡಿ ಟಾಟಾ, ಡಾ.ವರ್ಗೀಸ್ ಕುರಿಯನ್, ಎನ್.ಆರ್. ನಾರಾಯಣ ಮೂರ್ತಿ ಮತ್ತು ರೌನಕ್ ಸಿಂಗ್)

ಪಠ್ಯಪುಸ್ತಕ : ವಾಣಿಜ್ಯಗಂಗೋತ್ರಿ – 2

Course Articulation Matrix – 21KAN203

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	2	2	3	3	3	2	2	2	2
CO 2	3	3	3	2	2	3	3	3	2	1	2	3
CO 3	3	3	3	2	1	3	3	3	2	2	3	2
CO 4	3	3	2	3	2	2	3	3	2	2	3	2
Weighted Average	3	3	2.75	2.25	1.75	2.75	3	3	2	1.75	2.5	2.25

ಸೆಮಿಸ್ಟರ್ – 1

Course Code: 21KAN104	**Course Title:** ಕನ್ನಡಭಾಷೆ – 1
Course Credits (L:T:P): 03 (2:1:0)	**Hours of Teaching/Week:** 02 (Theory) + 02 (Tutorials)
Total Contact Hours: 56 Hours	**Formative Assessment Marks:** 40
Exam Duration: $2\frac{1}{2}$ Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO 1. ಕನ್ನಡ ನಾಡು–ನುಡಿಯ ಅಸ್ತಿತ್ವಕ್ಕಾಗಿ ಹೋರಾಡುತ್ತಾರೆ.

CO 2. ದೇಶಿ ಬದುಕಿನ ಕಡೆಗೆ ಮುಖ ಮಾಡುತ್ತಾರೆ.

CO 3. ಭಾವೈಕ್ಯತೆಯಿಂದ ಬದುಕುವುದನ್ನು ಕಲಿಯುತ್ತಾರೆ.

CO 4. ಲಿಂಗಸಮಾನತೆಗೆ ಒತ್ತು ನೀಡುತ್ತಾರೆ.

ಘಟಕ : 1 ಕನ್ನಡ ನಾಡು – ನುಡಿ ಚಿಂತನೆ   **14 ಗಂಟೆಗಳು**

1. ಸಾಯುತಿದೆ ನಿಮ್ಮ ನುಡಿ   – ಕುವೆಂಪು
2. ನಿಜಗಲ್ಲಿನ ರಾಣಿ   – ಶ್ರೀನಿವಾಸ
3. ನನ್ನ ಕನ್ನಡ ಜಗತ್ತು   – ಕೆ.ವಿ. ಸುಬ್ಬಣ್ಣ

ಘಟಕ : 2 ಆಧುನಿಕತೆ   **14 ಗಂಟೆಗಳು**

1. ರಂಗೋಲಿ ಮತ್ತು ಮಗ   – ಕೆ.ಎಸ್. ನಿಸಾರ್ ಅಹಮದ್
2. ಕಳಚಬೇಕಾದ ಇತರ ಯಂತ್ರಗಳು   – ಪ್ರಸನ್ನ
3. ಡಾಂಬರು ಬಂದುದು   – ದೇವನೂರು ಮಹಾದೇವ

ಘಟಕ : 3 ಕುಟುಂಬ   **14 ಗಂಟೆಗಳು**

1. ಬಾಳಿನ ಹಂಬಲು   – ಪು.ತಿ.ನ
2. ಅವ್ವ   – ಎಲ್. ಹನುಮಂತಯ್ಯ
3. ತುಂಬಿದ ಕೊಡ   – ತ್ರಿವೇಣಿ

ಘಟಕ : 4 ಸಂಕೀರ್ಣ   **14 ಗಂಟೆಗಳು**

1. ಶಿವನ ಮೀಸುವ ಹಾಡು   – ವೈದೇಹಿ
2. ಯುದ್ಧ   – ಸವಿತಾ ನಾಗಭೂಷಣ
3. ಧರ್ಮಬಲೆ ಬೀಸಿದಾಗ   – ಸಾ.ರಾ. ಅಬೂಬಕರ್

ಪಠ್ಯಪುಸ್ತಕ : ನಿರ್ವಹಣಾಗಂಗೋತ್ರಿ – 1

Course Articulation Matrix – 21KAN104

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	2	3	3	3	3	3	2	3	2	2
CO 2	3	3	3	2	3	3	3	3	2	3	3	2
CO 3	3	3	3	3	1	ಬಿ.ಬಿ.ಎ	1	3	2	3	2	2
CO 4	3	3	3	2	3	3	-	3	2	2	2	2
Weighted Average	3	3	2.75	2.5	2.5	3	2.33	3	2	2.75	2.25	2

ಸೆಮಿಸ್ಟರ್ – 2

Course Code: 21KAN204	**Course Title:** ಕನ್ನಡಭಾಷೆ – 2
Course Credits (L:T:P): 03 (2:1:0)	**Hours of Teaching/Week:** 02 (Theory) + 02 (Tutorials)
Total Contact Hours: 56 Hours	**Formative Assessment Marks:** 40
Exam Duration: $2\frac{1}{2}$ Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO 1. ಶ್ರಮಸಂಸ್ಕೃತಿಯನ್ನು ಬೆಳೆಸಿಕೊಳ್ಳುವರು.

CO 2. ಜಾತ್ಯಾತೀತ ಮನೋಭಾವ ರೂಢಿಸಿಕೊಳ್ಳುವರು.

CO 3. ಜೀವನದಲ್ಲಿ ತ್ಯಾಗ, ಆದರ್ಶಗಳನ್ನು ಬೆಳೆಸಿಕೊಳ್ಳುವರು.

CO 4. ಕನ್ನಡ ಸಾಹಿತ್ಯದ ವಿವಿಧ ಪ್ರಕಾರಗಳನ್ನು ಓದುತ್ತಾರೆ.

ಘಟಕ : 1 ಕಾಯಕ   **14 ಗಂಟೆಗಳು**

1. ವಚನಗಳು   –   (ಆಯ್ದ ಐದು ವಚನಕಾರರು)
2. ಮೋಚಿ   –   ಭಾರತೀಪ್ರಿಯ
3. ರಂಗದ ಮೇಲೆ ಇರಲಿ ನನ್ನ ಕೊನೆ   –   ಬಿ. ಜಯಶ್ರೀ

ಘಟಕ : 2 ಸಾಮರಸ್ಯ   **14 ಗಂಟೆಗಳು**

1. ನಾವೆಲ್ಲರೂ ಒಂದೇ   –   ಎಂ. ಗೋಪಾಲಕೃಷ್ಣ ಅಡಿಗ
2. ಮಗು ಮತ್ತು ಹಣ್ಣುಗಳು   –   ಎಚ್.ಎಸ್. ಶಿವಪ್ರಕಾಶ್
3. ಗಿರಿಜವ್ವನ ರೊಟ್ಟಿ   –   ಅನಕೃ

ಘಟಕ : 3 ಅಂತಃಕರಣ   **14 ಗಂಟೆಗಳು**

1. ನೀ ಹೀಂಗ ನೋಡಬ್ಯಾಡ ನನ್ನ   –   ಅಂಬಿಕಾತನಯದತ್ತ
2. ನಿಟ್ಟುಸಿರಿನಲಿ ನುಂಗಿದನು ಮನದ ಅನುಭಾವವನು –   ಸುಜನಾ
3. ಅವ್ವ   –   ಗೀತಾ ನಾಗಭೂಷಣ

ಘಟಕ : 4 ಸಂಕೀರ್ಣ   **14 ಗಂಟೆಗಳು**

1. ಕಲ್ಲುಸಕ್ಕರೆ ಕೊಳ್ಳಿರೊ   –   ಪುರಂದರ ದಾಸರು
2. ಸಾಮಾನ್ಯ ಮನುಷ್ಯನು ಬಾನಂಗಳದಲ್ಲಿ ವಿಹರಿಸಲಿ – ಕ್ಯಾಪ್ಟನ್ ಗೋಪಿನಾಥ್
3. ದೇವರ ಹೆಣ   –   ಕುಂ. ವೀರಭದ್ರಪ್ಪ

ಪಠ್ಯಪುಸ್ತಕ : ನಿರ್ವಹಣಾಗಂಗೋತ್ರಿ – 2

Course Articulation Matrix – 21KAN204

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	2	2	3	3	3	2	2	1	2
CO 2	3	3	3	2	2	3	-	3	2	2	1	2
CO 3	3	3	3	3	2	3	1	3	2	2	2	2
CO 4	3	3	3	3	2	3	2	2	2	2	3	2
Weighted Average	**3**	**3**	**3**	**2.5**	**2**	**3**	**2**	**2.75**	**2**	**2**	**1.75**	**2**

ಸೆಮಿಸ್ಟರ್ – 1

Course Code: 21KAN105	**Course Title:** ಕನ್ನಡಭಾಷೆ – 1
Course Credits (L:T:P): 03 (2:1:0)	**Hours of Teaching/Week:** 02 (Theory) + 02 (Tutorials)
Total Contact Hours: 56 Hours	**Formative Assessment Marks:** 40
Exam Duration: $2\frac{1}{2}$ Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO 1. ಕನ್ನಡ ನಾಡು–ನುಡಿಯ ಏಳಿಗೆಗಾಗಿ ಶ್ರಮಿಸುತ್ತಾರೆ.

CO 2. ಪರಿಸರಮಾಲಿನ್ಯವನ್ನು ತಡೆಯುವಲ್ಲಿ ಕಾರ್ಯಪ್ರವೃತ್ತರಾಗುತ್ತಾರೆ.

CO 3. ಹರೆಯದ ಮಹತ್ವ ಅರಿತು, ಉತ್ತಮ ವ್ಯಕ್ತಿತ್ವ ರೂಪಿಸಿಕೊಳ್ಳುವರು.

CO 4. ತಂತ್ರಜ್ಞಾನದಲ್ಲಿ ಕನ್ನಡಭಾಷೆ ಅಳವಡಿಸಿಕೊಳ್ಳುತ್ತಾರೆ.

ಘಟಕ – 1 ಕನ್ನಡ ನಾಡು–ನುಡಿ–ಚಿಂತನೆ   **14 ಗಂಟೆಗಳು**

1. ಕನ್ನಡಿಗರ ತಾಯಿ   – ಎಂ. ಗೋವಿಂದ ಪೈ

2. ಕಾಣಿಕೆ   – ಬಿ.ಎಂ.ಶ್ರೀ

3. ಕನ್ನಡ ಮನಸ್ಸು   – ಹಾ.ಮಾ. ನಾಯಕ

ಘಟಕ – 2 ಆಕಾಶ   **14 ಗಂಟೆಗಳು**

1 ಚಂದ್ರನನ್ನು ಕರೆಯಿರಿ ಭೂಮಿಗೆ   – ಸವಿತಾ ನಾಗಭೂಷಣ

2. ಮೋಡಗಳ ಸಾವು   – ಅಗ್ರಹಾರ ಕೃಷ್ಣಮೂರ್ತಿ

3. ಆಕಾಶಕ್ಕೆ ನೀಲಿ ಪರದೆ   – ಬೊಳುವಾರು ಮಹಮದ್ ಕುಂಞಿ

ಘಟಕ – 3 ತಾರುಣ್ಯ   **14 ಗಂಟೆಗಳು**

1. ಎಲ್ಲವೆಲ್ಲವೆಲ್ಲವಳು   – ಪು. ತಿ. ನ

2. ಒಂದು ಖಾಸಗಿ ಪತ್ರ   – ವಿನಯಾ ಒಕ್ಕುಂದ

3. ಹದಿಹರೆಯದವರ ಅವಶ್ಯಕತೆಗಳು   – ಸಿ. ಆರ್. ಚಂದ್ರಶೇಖರ್

ಘಟಕ – 4 ಸಂಕೀರ್ಣ   **14 ಗಂಟೆಗಳು**

1. ಇಲ್ಲಿ ಏನಾದರೂ ಬರೆಯಿರಿ   – ಎಂ. ಆರ್. ಕಮಲ

2. ಕನ್ನಡ ಮತ್ತು ಕಂಪ್ಯೂಟರ್   – ಟಿ. ಜಿ. ಶ್ರೀನಿಧಿ

3. ಅ. ಕನ್ನಡದಲ್ಲಿ ಗಣಕದ ಬಳಕೆಯ ಇತಿಹಾಸ, ಬೆಳವಣಿಗೆ ಮತ್ತು ಹೊಸ ಸಾಧ್ಯತೆಗಳು.

   ಆ. ಕನ್ನಡ ಭಾಷೆ ಮತ್ತು ತಂತ್ರಾಂಶಗಳು.

   ಇ. ಕನ್ನಡದಲ್ಲಿ ಗಣಕದ ಬಳಕೆಗೆ ಶ್ರಮಿಸಿದ ತಂತ್ರಜ್ಞರುಗಳ ಪರಿಚಯ.

ಪಠ್ಯಪುಸ್ತಕ : ಗಣಕಗಂಗೋತ್ರಿ – 1

Course Articulation Matrix – 21KAN105

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	2	2	3	2	3	2	2	2	2
CO 2	3	2	3	2	2	3	3	3	2	2	1	2
CO 3	3	3	2	2	2	3	-	-	2	1	-	2
CO 4	3	2	2	2	3	3	-	2	2	2	2	2
Weighted Average	**3**	**2.5**	**2.5**	**2**	**2.25**	**3**	**2.5**	**2.66**	**2**	**1.75**	**1.66**	**2**

ಸೆಮಿಸ್ಟರ್–2

Course Code: 21KAN205	**Course Title:** ಕನ್ನಡಭಾಷೆ – 2
Course Credits (L:T:P): 03 (2:1:0)	**Hours of Teaching/Week:** 02 (Theory) + 02 (Tutorials)
Total Contact Hours: 56 Hours	**Formative Assessment Marks:** 40
Exam Duration: $2\frac{1}{2}$ Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO 1. ಜಾಗತೀಕರಣದ ಪ್ರಭಾವಗಳನ್ನು ಅರಿತು ವರ್ತಿಸುತ್ತಾರೆ.

CO 2. ತಂತ್ರಜ್ಞಾನದ ಅಗತ್ಯತೆಯನ್ನು ಅರಿತು, ಕನ್ನಡಭಾಷೆ ಮತ್ತು ಸಾಹಿತ್ಯವನ್ನು ತಂತ್ರಜ್ಞಾನದಲ್ಲಿ ಅಳವಡಿಸುವುದಕ್ಕೆ ಮುಂದಾಗುತ್ತಾರೆ.

CO 3. ಜೀವನದಲ್ಲಿ ಸುಖಿಮಯವಾದ ದಾಂಪತ್ಯವನ್ನು ನಿರ್ಮಿಸಿಕೊಳ್ಳುತ್ತಾರೆ.

CO 4. ತಂತ್ರಜ್ಞಾನದಲ್ಲಿ ಕನ್ನಡ ಬೆಳವಣಿಗೆಯ ಇತಿಹಾಸವನ್ನು ಅರಿಯುತ್ತಾರೆ.

ಘಟಕ– 1 ವಾಣಿಜ್ಯ   **14 ಗಂಟೆಗಳು**

1. ಮನೆಯಿಂದ ಮನೆಗೆ   – ಕೆ.ಎಸ್. ನರಸಿಂಹಸ್ವಾಮಿ
2. ಕಟ್ಟಡದ ಕೆಲಸಗಾರರು   – ಎಚ್.ಎಸ್. ಶಿವಪ್ರಕಾಶ್
3. ಜಾಗತೀಕರಣ ಮತ್ತು ಸಂಸ್ಕೃತಿ   – ರಾಜೇಂದ್ರ ಚೆನ್ನಿ

ಘಟಕ – 2 ತಂತ್ರಜ್ಞಾನ   **14 ಗಂಟೆಗಳು**

1. ಗಿರಣಿಯ ವಿಸ್ತಾರ ನೋಡಮ್ಮ   – ಶಿಶುನಾಳ ಷರೀಫ
2. ದಿಕ್ಕು   – ಪ್ರತಿಭಾ ನಂದಕುಮಾರ್
3. ರಾಗಿಬ್ರಹ್ಮ   – ಲಕ್ಷ್ಮಣಯ್ಯ

ಘಟಕ – 3 ದಾಂಪತ್ಯ   **14 ಗಂಟೆಗಳು**

1. ಮನದನ್ನೆ   – ದ. ರಾ. ಬೇಂದ್ರೆ
2. ತುಕ್ಕೋಜಿ   – ಕೆ.ಪಿ.ಪೂರ್ಣಚಂದ್ರ ತೇಜಸ್ವಿ
3. ಮರಳಿ ಬದುಕಿಗೆ ಈ ಪಯಣ   – ನೇಮಿಚಂದ್ರ

ಘಟಕ – 4 ಸಂಕೀರ್ಣ   **14 ಗಂಟೆಗಳು**

1. ಮತ್ತೆ ಭ್ರೂಣವಾಗಬೇಕು   – ಸುಕನ್ಯಾ ಮಾರುತಿ
2. ಗಣಕಾಸುರ   – ಡಾ. ವೈ.ವೈ. ಕೊಕ್ಕನವರ
3. ಅರಿವಿನ ಜಾಲತಾಣ ಮತ್ತು ಸಾಮಾಜಿಕ ಜಾಲತಾಣಗಳಲ್ಲಿ ಕನ್ನಡ.

ಪಠ್ಯಪುಸ್ತಕ : ಗಣಕಗಂಗೋತ್ರಿ – 2

Course Articulation Matrix – 21KAN205

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	2	2	2	3	2	3	2	3	2
CO 2	3	3	2	2	2	3	-	3	2	2	3	2
CO 3	3	3	2	2	2	3	-	3	3	2	-	2
CO 4	3	3	3	2	3	3	3	3	2	2	3	2
Weighted Average	**3**	**3**	**2**	**2**	**2.25**	**2.75**	**3**	**2.75**	**2.5**	**2**	**3**	**2**

ಕನ್ನಡ ಮುಕ್ತ ಆಯ್ಕೆ (OE)

ಸೆಮಿಸ್ಟರ್ – 1

Course Code: 21OEKAN101	**Course Title:** ಕನ್ನಡವ್ಯಾಕರಣ
Course Credits (L:T:P): 03 (3:0:0)	**Hours of Teaching/Week:** 03 (Theory)
Total Contact Hours: 42 Hours	**Formative Assessment Marks:** 40
Exam Duration: $2\frac{1}{2}$ Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO 1. ಕನ್ನಡ ಸಂಧಿ, ಸಮಾಸಗಳ ಪ್ರಯೋಗಗಳನ್ನು ಕಲಿಯುತ್ತಾರೆ.

CO 2. ಕನ್ನಡವನ್ನು ಶುದ್ಧವಾಗಿ ಬರೆಯಲು ಮತ್ತು ಮಾತನಾಡಲು ಕಲಿಯುತ್ತಾರೆ.

CO 3. ಕನ್ನಡ ಬಳಕೆಯಲ್ಲಿ ಲಿಂಗ, ವಚನಗಳ ಬಳಕೆಯನ್ನು ಕಲಿಯುವರು.

CO 4. ಕನ್ನಡ ದ್ವಿರುಕ್ತಿ ಪದಗಳ ಪರಿಚಯವಾಗುತ್ತದೆ.

ಫಟಕ – 1: ಸಂಧಿ–ಸಮಾಸಗಳು   20 ಗಂಟೆಗಳು

  ➤ **ಸಂಧಿ : ವಿಧಗಳು : ಕನ್ನಡ ಸಂಧಿಗಳು :** ಲೋಪ, ಆಗಮ, ಆದೇಶ,

  ➤ **ಸಂಸ್ಕೃತ ಸಂಧಿಗಳು :** ಸವರ್ಣದೀರ್ಘ ಸಂಧಿ, ಗುಣಸಂಧಿ, ವೃದ್ಧಿ ಸಂಧಿ, ಯಣ್ ಸಂಧಿ, ಜಸ್ತ್ವ, ಶ್ಚುತ್ವ, ಅನುನಾಸಿಕ

  ➤ **ಸಮಾಸ : ವಿಧಗಳು :** ತತ್ಪುರುಷ, ಕರ್ಮಧಾರಯ, ದ್ವಿಗು, ಬಹುವ್ರೀಹಿ, ಅಂಶಿ, ದ್ವಂದ್ವ, ಕ್ರಿಯಾ, ಗಮಕ, ಅರಿಸಮಾಸ

ಫಟಕ – 2: ನಾಮಪದ ಹಾಗೂ ಇನ್ನಿತರ ವಿಚಾರಗಳು   10 ಗಂಟೆಗಳು

  ➤ ನಾಮಪದ, ವಿಭಕ್ತಿಪ್ರತ್ಯಯ, ಗುಣವಾಚಕಗಳು, ಕ್ರಿಯಾಪದಗಳು,

ಫಟಕ – 3: ಲಿಂಗ, ವಚನ, ತತ್ಸಮ–ತದ್ಭವಗಳು   06 ಗಂಟೆಗಳು

ಫಟಕ – 4: ದ್ವಿರುಕ್ತಿ, ಜೋಡುನುಡಿ   06 ಗಂಟೆಗಳು

ಪರಾಮರ್ಶನ ಗ್ರಂಥಗಳು

1. ಕನ್ನಡ ಕೈಪಿಡಿ – ಕುವೆಂಪು ಕನ್ನಡ ಅಧ್ಯಯನ ಸಂಸ್ಥೆ
2. ಕನ್ನಡ ಛಂದಸ್ಸಿನ ಚರಿತ್ರೆ – ಕುವೆಂಪು ಕನ್ನಡ ಅಧ್ಯಯನ ಸಂಸ್ಥೆ
3. ಕನ್ನಡ ಮಧ್ಯಮ ವ್ಯಾಕರಣ – ತೀ.ನಂ.ಶ್ರೀ.
4. ಹೊಸಗನ್ನಡ ಸಮಗ್ರ ವ್ಯಾಕರಣ – ಪ್ರೊ. ಅರಳಗುಪ್ಪಿ
5. ಕನ್ನಡದ ಅಲಂಕಾರಶಾಸ್ತ್ರ – ಕೆ. ಕೃಷ್ಣಮೂರ್ತಿ
6. ಹೊಸಗನ್ನಡ ಛಂದಸ್ಸು ಛಂದಃ ಸ್ವರೂಪ – ಪ್ರೊ. ಟಿ.ವಿ. ವೆಂಕಟಾಚಲಶಾಸ್ತ್ರಿ
7. ಛಂದಃಸ್ವಂಪುಟ – ಡಾ. ಎಲ್. ಬಸವರಾಜು
8. ಭಾರತೀಯ ಕಾವ್ಯಮೀಮಾಂಸೆ – ತೀ.ನಂ.ಶ್ರೀ.
9. ಭಾರತೀಯ ಮತ್ತು ಪಾಶ್ಚಾತ್ಯ ಕಾವ್ಯಮೀಮಾಂಸೆ – ಅಬ್ದುಲ್ ಬಷೀರ್
10. ಅಲಂಕಾರ ಸಂಗಾತಿ – ಡಾ. ಗಿರಿಜಾಪತಿ ಎಂ.
11. ಛಂದೋಮಿತ್ರ – ಅ.ರಾ. ಮಿತ್ರ

Course Articulation Matrix - 21OEKAN101

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	2	2	2	1	1	1	3	2	2
CO 2	3	2	3	2	2	2	1	2	2	3	2	2
CO 3	3	2	1	2	1	2	1	2	2	1	2	2
CO 4	3	2	1	2	1	2	2	1	2	1	2	2
Weighted Average	**3**	**2.25**	**2**	**2**	**1.5**	**2**	**1**	**1.25**	**1.75**	**2**	**2**	**2**

ಕನ್ನಡ ಮುಕ್ತ ಆಯ್ಕೆ (OE)

Course Code : 21OEKAN201	**Course Title:** ಆಡಳಿತಾತ್ಮಕ ಕನ್ನಡ
Course Credits (L:T:P): 03 (3:0:0)	**Hours of Teaching/Week:** 03 (Theory)
Total Contact Hours: 42 Hours	**Formative Assessment Marks:** 40
Exam Duration: $2\frac{1}{2}$ Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO 1. ಯಾವುದೇ ಬಗೆಯ ವರದಿ ಮಾಡುವುದನ್ನು ಕಲಿಯುತ್ತಾರೆ.

CO 2. ಎಲ್ಲ ರೀತಿಯ ಪತ್ರಗಳನ್ನು ಬರೆಯುವುದನ್ನು ಕಲಿಯುವರು.

CO 3. ಆಡಳಿತದಲ್ಲಿ ಕನ್ನಡ ಬಳಕೆಯನ್ನು ಕಲಿಯುತ್ತಾರೆ.

CO 4. ಕನ್ನಡ ಗಾದೆಗಳು, ಒಗಡುಗಳು, ನುಡಿಗಟ್ಟುಗಳ ಬಳಕೆಯನ್ನು ರೂಢಿಸಿಕೊಳ್ಳುವರು.

ಘಟಕ – 1 : ಸಂಕ್ಷಿಪ್ತ ಲೇಖನ		**11 ಗಂಟೆಗಳು**
ಘಟಕ – 2 : ಪತ್ರಲೇಖನ, ಪ್ರಬಂಧರಚನೆ		**10 ಗಂಟೆಗಳು**
ಘಟಕ – 3 : ಆಡಳಿತಾತ್ಮಕ ಪದಕೋಶ – ಪರಿಕಲ್ಪನೆಗಳು		**11 ಗಂಟೆಗಳು**
ಘಟಕ – 4 : ಗಾದೆಗಳು, ನುಡಿಗಟ್ಟುಗಳು, ಒಗಟುಗಳು		**10 ಗಂಟೆಗಳು**

ಪರಾಮರ್ಶನ ಗ್ರಂಥಗಳು

1 ಕಛೇರಿ ಕೈಪಿಡಿ – ಕುವೆಂಪು ಕನ್ನಡ ಅಧ್ಯಯನ ಸಂಸ್ಥೆ, ಮೈಸೂರು

2 ಆಡಳಿತ ಕನ್ನಡ – ಎಚ್ಚೆಸ್ಕೆ

3 ವಾಣಿಜ್ಯ ಕನ್ನಡ – ಎಚ್ಚೆಸ್ಕೆ

4 ವಾಣಿಜ್ಯ ಕನ್ನಡ ಪರಿಚಯ – ಪ್ರೊ.ಎಂ.ಎನ್. ಲಕ್ಷ್ಮೀದೇವಿ, ಪ್ರೊ.ಜಿ. ಅಬ್ದುಲ್ ಬಷೀರ್

5 ಆಡಳಿತ ಕನ್ನಡ – ಸಂ. ಡಾ. ಅಶೋಕ್ ಕುಮಾರ್ ರಂಜೇರ ಮತ್ತು ಇತರರು

6 ಮುತ್ತಿನ ಕಣಜ – ಡಾ.ಪಿ.ಕೆ. ರಾಜಶೇಖರ

7 ಭೂಮಿತೂಕದ ಮಾತು – ಡಾ.ಪಿ.ಕೆ. ರಾಜಶೇಖರ

Course Articulation Matrix - 21OEKAN201

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	2	3	2	2	2	1	1	2	3	2	2
CO 2	3	2	3	2	2	2	1	1	2	3	2	2
CO 3	3	1	2	1	2	1	2	2	1	1	2	2
CO 4	3	1	2	1	2	1	2	1	2	2	1	2
Weighted Average	**3**	**1.5**	**2.5**	**1.5**	**2**	**1.5**	**1.5**	**1.25**	**1.75**	**2.25**	**1.75**	**2**

ನಿರಂತರ ಆಂತರಿಕ ಮೌಲ್ಯಮಾಪನ ಮತ್ತು ಸೆಮಿಸ್ಟರ್ ಅಂತಿಮ ಪರೀಕ್ಷೆಗೆ ಸೂಚಿಸುವ ಮಾರ್ಗಸೂಚಿಗಳು

ಪ್ರತಿ ಪತ್ರಿಕೆಯ ಒಟ್ಟು ಪಾಠ ಘಟಕಗಳು – 04 ಘಟಕಗಳು

(ಪ್ರಾಥಮಿಕ ಪರಿಚಯ, ಸೈದ್ಧಾಂತಿಕ ವಿವರಣೆ ಸೇರಿದಂತೆ)

ಗಮನಿಸಿ : ಪರೀಕ್ಷೆಯ ಅಂಕಗಳು (ಬರವಣಿಗೆ) : 60 ಅಂಕಗಳು
ಆಂತರಿಕ ಮೌಲ್ಯಮಾಪನ   : 40 ಅಂಕಗಳು
                                          ──────────
ಪ್ರತಿ ಪತ್ರಿಕೆಗೆ ಗರಿಷ್ಠ ಅಂಕಗಳು   : 100 ಅಂಕಗಳು
                                          ──────────

ಆಂತರಿಕ ಮೌಲ್ಯಮಾಪನದ ವಿವರಗಳು :

ಎಲ್ಲಾ ಸೆಮಿಸ್ಟರ್‌ಗಳಿಗೆ ಪ್ರತಿ ಪತ್ರಿಕೆಗೆ ಆಂತರಿಕ ಮೌಲ್ಯಮಾಪನವನ್ನು ಈ ಕೆಳಗಿನಂತೆ ಮಾಡಲಾಗುತ್ತದೆ

ಪರೀಕ್ಷೆ	ವಿವರ	ಅಂಕಗಳು
C-1	ಪ್ರತಿ ಸೆಮಿಸ್ಟರ್‌ನ ಪೂರ್ವಾರ್ಧದ ಕೊನೆಗೆ 7–8ನೇ ವಾರಗಳಲ್ಲಿ ಕಿರುಪರೀಕ್ಷೆ	20
C-2	ನಿಯೋಜಿತ ಪ್ರಬಂಧ	20
	ಒಟ್ಟು ಅಂಕಗಳು	40
C-3	ಪ್ರತಿ ಸೆಮಿಸ್ಟರ್‌ನ ಅಂತಿಮ ಪರೀಕ್ಷೆ ಸಮಯ 2 1/2 ಗಂಟೆಗಳು 60 ಅಂಕಗಳು	60
	ಒಟ್ಟು ಅಂಕಗಳು	**100**

ಡಾ.

ಹೊಸ ಶಿಕ್ಷಣ ನೀತಿ 2021-22
ಮಾದರಿ ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆ – ಪ್ರಥಮ ಮತ್ತು ದ್ವಿತೀಯ ಸೆಮಿಸ್ಟರ್
(AECC & OE)

ಅವಧಿ : $2\frac{1}{2}$ Hours   ಅಂಕಗಳು : **60**

1. ಒಂದು ಪ್ರಶ್ನೆಗೆ ಉತ್ತರಿಸಿ.   1 x 10 = 10

    (ಘಟಕ 1 ರಿಂದ 2 ಪ್ರಶ್ನೆಗಳನ್ನು ಕೇಳಲಾಗುತ್ತದೆ)

2. ಒಂದು ಪ್ರಶ್ನೆಗೆ ಉತ್ತರಿಸಿ.   1 x 10 = 10

    (ಘಟಕ 2 ರಿಂದ 2 ಪ್ರಶ್ನೆಗಳನ್ನು ಕೇಳಲಾಗುತ್ತದೆ)

3. ಒಂದು ಪ್ರಶ್ನೆಗೆ ಉತ್ತರಿಸಿ   1 x 10 = 10

    (ಘಟಕ 3 ರಿಂದ 2 ಪ್ರಶ್ನೆಗಳನ್ನು ಕೇಳಲಾಗುತ್ತದೆ)

4. ಒಂದು ಪ್ರಶ್ನೆಗೆ ಉತ್ತರಿಸಿ.   1 x 10 = 10

    (ಘಟಕ 4 ರಿಂದ 2 ಪ್ರಶ್ನೆಗಳನ್ನು ಕೇಳಲಾಗುತ್ತದೆ)

5. ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ.   2 x 5 = 10

    (ಘಟಕ 1, 2, 3, 4 ರಿಂದ ಪದ್ಯ ಅಥವಾ ಪಾಠದಿಂದ ನಾಲ್ಕು

    ಸಂದರ್ಭ ವಾಕ್ಯಗಳನ್ನು ಕೇಳಲಾಗುತ್ತದೆ)

6. ಒಂದು ವಿಷಯ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.   1 x 5 = 5

    (ನಾಲ್ಕು ಘಟಕಗಳ ಪಠ್ಯದಲ್ಲಿನ ಒಂದು ವಿಷಯ ಕುರಿತು ವಿದ್ಯಾರ್ಥಿಗಳ ಸ್ವಂತ ಅನುಭವ, ಆಲೋಚನೆ,
    ಅಭಿಪ್ರಾಯ ಕುರಿತು ಬರೆಯಲು ಎರಡು ಪ್ರಶ್ನೆಗಳನ್ನು ಕೇಳಲಾಗುತ್ತದೆ)

7. ಒಂದು ಪದ ಅಥವಾ ವಾಕ್ಯದಲ್ಲಿ ಉತ್ತರಿಸಿ.   5 x 1 = 5

    (ನಾಲ್ಕು ಘಟಕಗಳಲ್ಲಿ ಭಾಷಾಭ್ಯಾಸಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ ಐದು ಪ್ರಶ್ನೆಗಳನ್ನು ಕೇಳಲಾಗುತ್ತದೆ)

Mahajana Education Society (R.)
Education to Excel

SBRR MAHAJANA FIRST GRADE COLLEGE (Autonomous)

Jayalakshmipuram, Mysuru – 570 012
Affiliated to University of Mysore Re-accredited by NAAC with 'A' Grade
College with Potential for Excellence

BOARD OF STUDIES (BoS)

DEPARTMENT OF MATHEMATICS

UG ✓

PG ☐

NEP Syllabi for I and II Semester B.Sc. MATHEMATICS

2021-22

DEPARTMENT OF MATHEMATICS

Motto

Accuracy and Perfection

Vision

To Create a Mindset to apply Analytical Skills

Mission

Empower with Logic Enhance with Skills

Program Outcomes (POs) for Bachelor of Science

PO 1   : **Domain Knowledge -** Acquire and apply knowledge of science in relevant areas.

PO 2   : **Problem Analysis –** Recognize real-world problems and user's requirements to propose solutions for the same using basic principles of science.

PO 3   : **Design and Development of Solutions –** Developing solutions and inferences for complex problems using critical and analytical thinking.

PO 4   : **Investigation & Research** – Ability to formulate hypothesis, augment research questions and identify & refer relevant sources for examining or inspecting technical issues as per their level of understanding and knowledge.

PO 5   : **Use of Modern Techniques/Tools** – Use digital resources, various software/platforms and appropriate techniques to interpret concepts of science.

PO 6   : **Impact of Science on Society** – To prepare competent human resource and to develop scientific attitude at local and global levels for social benefit.

PO 7   : **Environment and Sustainability** – Apply the knowledge gained for conserving environment and to handle environmental issues with sustainable solutions.

PO 8   : **Moral and Ethical Values** – Imbibe moral values and professional ethics to maintain the integrality in a professional scenario while being aware of the cultural diversities.

PO 9   : **Individual and Team Work with Time Management** – Work productively in a team or as an individual while exhibiting time management skills.

PO 10 : **Communication** – Develop the caliber to convey various concepts of science effectively.

PO 11 : **Project Management and Finance** – Set up enterprises/companies and build entrepreneurship, project management and finance planning skills.

PO 12 : **Life-long Learning** – Engage in the art of self-directed learning.

List of BoS Members

Sl. No.	Category	Name & Designation	Address for Communication	e-Mail & Mobile No.
1	Chairperson	Dr. Sumathi M P Assistant Professor & HoD	Department of Mathematics SBRR Mahajana First Grade College (A), Jayalakshmipuram, Mysuru - 12	sumathimp.fgc@mahajana.edu.in 9880810618
2	Member	Sri. Niranjan L Assistant Professor	Department of Mathematics SBRR Mahajana First Grade College (A), Jayalakshmipuram, Mysuru - 12	niranjankavi.np@gmail.com 9108257072
3	Two Experts from Other University	Dr M C Mahesh Kumar Associate Professor	Department of Mathematics GFGC, KR Puram, Bangalore-36	Softmahe15@gmail.com 9844753730
4		Kemparaju R Assistant Professor	Department of Mathematics Government college for women, Chintamani-563125	kemps007@gmail.com 9844335388
5	Nominee by the Vice Chancellor	Dr.D D Somashekara Professor	DoS in Mathematics Manasagangotri, University of Mysore, Mysuru – 570006	somashekara@maths.uni-mysore.ac.in 9480057505
6	Alumnus	Harshavardhana C N Assistant Professor	Department of Mathematics Govt First Grade college for Women, Holenarasipura	cnhmaths@gmail.com 8971876885

Course Structure(NEP)

Discipline Specific Courses (DSC) and Open Elective (OE)

I Year

Course Type, Code and Name		Hours/Week		Credits	Maximum Marks			Exam Duration	Total Marks
					IA		Exam		
		L	T/P	L:T:P	C1	C2	C3		
MATHEMATICS – I Sem									
DSC(1)	Algebra - I & Calculus – I **212139**	4	0	**4:0:2** **(6credits)**	20	20	60	2 ½ Hours	150
DSC(1)-Lab	Theory based Practical's on Algebra - I and Calculus – I **212139**	0	4		10	15	25	3 Hours	
OE(1)	Optional Mathematics – I **21OEMAT101**	3	0	**3:0:0**	20	20	60	2 ½ Hours	100
	Business Mathematics – I **21OEMAT102**								
	Mathematical Aptitude- I **21OEMAT103**								
	(Any one OE course to be opted)								

Course Type, Code and Name		Hours/Week		Credits	Maximum Marks			Exam Duration	Total Marks
		L	T/P	L:T:P	C1	C2	C3		
MATHEMATICS – II Sem									
DSC(2)	Algebra – II (Number Theory) and Calculus – II **212239**	4	0	**4:0:2** **(6 credits)**	20	20	60	2 ½ Hours	150
DSC(2) Lab	Theory based Practical's on Algebra – II (Number Theory) and Calculus – II **212239**	0	4		10	15	25	3 Hours	
OE(2)	Optional Mathematics – II **21OEMAT201**	3	0	**3:0:0**	20	20	60	2 ½ Hours	100
	Business Mathematics – II **21OEMAT202**								
	Mathematical Aptitude- II **21OEMAT203**								
	(Any one OE course to be opted)								

DSC(1) Syllabus for B.Sc. Mathematics (Basic and Honors)

Semester I

Course Code: 212139	Course Title: DSC(1) : Algebra - I & Calculus - I DSC(1) Lab :Theory based Practical's on Algebra - I and Calculus – I
Course Credits:06 (4:0:2)	**Hours of Teaching/Week:** 04 (Theory) + 04 (Practical)
Total Contact Hours: 56 Hours (Theory) 56 Hours (Practical)	**Formative Assessment Marks:** 40 (Theory) 25 (Practical)
Exam Duration: 2 ½ Hours (Theory) 3 Hours (Practical)	**Semester End Examination Marks:** 60 (Theory) 25 (Practical)

Course Outcomes (COs):

CO 1 : Design solutions and implement the elementary operation for matrices and system of linear equations.

CO 2 : Examine and develop solution for polynomial equations using various methods.

CO 3 : Evaluation of Polar co-ordinates applying methods of differential calculus.

CO 4 : Implementation of various technique of integration and differentiation for functions with real variables and to evaluate Reduction formulae.

Course Content

Content	Hours
UNIT – 1	
Matrix: Recapitulation of Symmetric and Skew Symmetric matrices, Algebra of Matrices; Row and column reduction to Echelon form. Rank of a matrix; Inverse of a matrix by elementary operations; Solution of system of linear equations; Criteria for existence of non-trivial solutions of homogeneous system of linear equations. Solution of non-homogeneous system of linear equations. Cayley- Hamilton theorem, inverse of matrices by Cayley-Hamilton theorem (Without Proof).	**14**
UNIT – 2	
Theory of equations : Euclid's algorithm, Polynomials with integral coefficients, Remainder theorem, Factor theorem, Fundamental theorem of algebra(statement only), Irrational and complex roots occurring in conjugate pairs, Relation between roots and coefficients of a polynomial equation, Symmetric functions, Transformation, Reciprocal equations, Descartes' rule of signs, Multiple roots, Solving cubic equations by Cardon's method, Solving quartic equations by Descarte's Method.	**14**

UNIT – 3	
Polar Co-ordinates : Polar coordinates, angle between the radius vector and tangent. Angle of intersection of two curves (polar forms), length of perpendicular from pole to the tangent, pedal equations. Derivative of an arc in Cartesian, parametric and polar forms, curvature of plane curve-radius of curvature formula in Cartesian, parametric and polar and pedal forms- center of curvature, circle of curvature.	**14**

UNIT – 4	
Successive Differentiation and Integral Calculus-I : nth Derivatives of Standard functions e^{ax+b} , a^x, $(ax + b)^n$, sin $(ax + b)$, cos $(ax + b)$, $\log(ax + b)$, $e^{ax}\sin(bx+ c)$, $e^{ax}\cos(bx + c)$, Leibnitz theorem and its applications. Recapitulation of definite integrals and its properties. Reduction formulae for $\int \sin^n x\, dx$, $\int \cos^n x\, dx$, $\int \sin^n x \cos^m x\, dx$, $\int \tan^n x\, dx$, $\int \cot^n x\, dx$, $\int \sec^n x\, dx$, $\int \csc^n x\, dx$, $\int x^n \sin x\, dx$, , $\int x^n \cos x\, dx$, , $\int x^n e^{ax}\, dx$ with definite limits	**14**

Books for References:

1. University Algebra - N.S. Gopala Krishnan, New Age International (P)   Limited.
2. Algebra – Natarajan, Manicavasagam Pillay and Ganapathy.
3. Theory of Matrices - B S Vatsa, New Age International Publishers.
4. Matrices - A R Vasista, Krishna Prakashana Mandir.
5. Differential Calculus - Shanti Narayan, S. Chand & Company, New Delhi.
6. Applications of Calculus, Debasish Sengupta, Books and Allied (P)   Ltd., 2019.
7. Calculus – Lipman Bers, Holt, Rinehart & Winston.
8. Calculus - S Narayanan & T. K. Manicavachogam Pillay, S.   Viswanathan Pvt. Ltd.,vol. I & II.
9. Schaum's Outline of Calculus - Frank Ayres and Elliott Mendelson, 5th ed. USA: Mc. Graw.
10. Shanthinarayan – Integral Calculus, New Delhi: S. Chand and Co. Pvt. Ltd.
11. Shanthinarayan and P K Mittal, Integral Calculus, Reprint. New Delhi: S.Chand and Co. Pvt. Ltd., 2013.

Mathematics Web links:
1. http://scienceworld.wolfram.com/biography/topics/Mathematicians.html
2. http://teachers.sduhsd.k12.ca.us/abrown/index2.html
3. http://www.maths.tcd.ie/pub/HistMath/People/RBallHist.html
4. http://www.geometry.net/math.html
5. http://www-history.mcs.st-andrews.ac.uk/history/Indexes/Full_Alph.html
6. http://mathforum.org
7. http://www.cut-the-knot.org
8. http://nrich.maths.org
9. http://archives.math.utk.edu/
10. http://www-groups.dcs.st-and.ac.uk/~history/
11. http://www.maa.org/
12. http://e-math.ams.org/
13. Website on Books in Mathematics

Practical/Lab Work to be performed in Mathematics Lab (FOSS) Suggested Software's:

Maxima/Scilab /Python/R.

Introduction to the software and commands related to the topic.
1. Getting Started.
2. Sets and Functions.
3. Algebra-Polynomials.
4. Algebra-Rational functions and other expressions.
5. Algebra-Matrices and Determinants.
6. Polar Coordinates.
7. Successive Differentiation.
8. Integral Calculus- Reduction Formulae.
9. Plotting 2D.
10. Plotting 3D.

Course Articulation Matrix - 212139

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	2	1	2	2	1	-	1	1	-	1
CO 2	3	3	2	1	1	1	-	1	-	1	-	1
CO 3	2	2	-	1	3	2	1	1	1	1	1	1
CO 4	3	3	2	2	2	3	1	1	2	2	2	2
Weighted Average	2.75	2.75	2	1.25	2	2	1	1	1.33	1.25	1.5	1.25

OE(1) Mathematics Syllabus for All Programs (Except Science)

Semester I

Course Code: 21OEMAT101	**Course Title:** OE(1) Optional Mathematics – I

Course Credits: 03 (3:0:0)	**Hours of Teaching/Week:** 03 Hour (Theory)
Total Contact Hours: 42 Hours (Theory)	**Formative Assessment Marks:**40
Exam Duration:2 ½ Hours	**Semester End Examination Marks:**60

Course Outcomes (COs):

CO 1: Design solutions and implement the elementary operations for matrices and system of linear equations.

CO 2: Examine and develop solution for polynomial equations using various methods.

CO 3: Evaluation of Polar co-ordinates applying methods of differential calculus.

Course Content

UNIT – 1	Matrices	14 HOURS

Recapitulation of Symmetric and Skew Symmetric matrices, Algebra of Matrices; Row and column reduction, Echelon form. Rank of a matrix; Inverse of a matrix by elementary operations; Solution of system of linear equations; Criteria for existence of non-trivial solutions of homogeneous system of linear equations. Solution of non-homogeneous system of linear equations. Cayley- Hamilton theorem, inverse of matrices by Cayley-Hamilton theorem
(Without Proof).

UNIT – 2	Theory of equations	14 HOURS

Euclid's algorithm, Polynomials with integral coefficients, Remainder theorem, Factor theorem, Fundamental theorem of algebra(statement only), Irrational and complex roots occurring in conjugate pairs, Relation between roots and coefficients of a polynomial equation, Symmetric functions, Transformation, Reciprocal equations, Descartes' rule of signs, Multiple roots, Solving cubic equations by Cardon's method, Solving quartic equations by Descarte's Method.

UNIT – 3	Polar Co-ordinates	14 HOURS

Polar coordinates, angle between the radius vector and tangent. Angle of intersection of two curves (polar forms), length of perpendicular from pole to the tangent, pedal equations. Derivative of an arc in Cartesian, parametric and polar forms, curvature of plane curve-radius of curvature formula in Cartesian, parametric and polar and pedal forms- center of curvature, circle of curvature.

Books for References:
1. University Algebra - N.S. Gopala Krishnan, New Age International (P) Limited.
2. Algebra – Natarajan, Manicavasagam Pillay and Ganapathy.
3. Theory of Matrices - B S Vatsa, New Age International Publishers.
4. Matrices - A R Vasista, Krishna Prakashana Mandir.
5. Differential Calculus - Shanti Narayan, S. Chand & Company, New Delhi.
6. Applications of Calculus, Debasish Sengupta, Books and Allied (P) Ltd., 2019.
7. Calculus – Lipman Bers, Holt, Rinehart & Winston.
8. Calculus - S Narayanan & T. K. Manicavachogam Pillay, S Viswanathan Pvt. Ltd.,vol. I & II.

Course Articulation Matrix – 21OEMAT101

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	2	1	2	2	1	-	1	1	-	1
CO 2	3	3	2	1	1	1	-	1	-	1	-	1
CO 3	2	2	1	1	3	2	1	1	1	1	1	1
Weighted Average	2.67	2.67	1.67	1	2	1.67	1	1	1	1	1	1

OE(1) Mathematics Syllabus for All Programs (Except Science)

Semester I

Course Code: 21OEMAT102	**Course Title:** OE(1) Business Mathematics – I
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week:** 03 Hour (Theory)
Total Contact Hours: 42 Hours (Theory)	**Formative Assessment Marks:** 40
Exam Duration: 2 ½ Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO 1: Illustration of Set theory, Relations, functions, indices, logarithms, permutation and combination and their applications.

CO 2: Classify and design solutions for matrices and system of linear equations applying elementary operations.

CO 3: Analyze and apply the knowledge of limits, continuity and differentiability in solving problems. Construct extremum values function of higher order derivatives using partial and total derivatives.

Course Content

UNIT – 1	**Algebra**	**14 HOURS**
Set theory and simple applications of Venn Diagram, relations, functions, indices, logarithms, permutations and combinations. Examples on commercial mathematics.		

UNIT – 2	**Matrices**	**14 HOURS**
Definition of a matrix; types of matrices; algebra of matrices. Properties of determinants; calculations of values of determinants up to third order; Adjoint of a matrix, elementary row and column operations; solution of a system of linear equations having unique solution and involving not more than three variables. Examples on commercial mathematics.		

UNIT – 3	**Differential Calculus**	**14 HOURS**
Constant and variables, functions, Limits & continuity. Differentiability and Differentiation, partial differentiation, rates as a measure, maxima, minima, Partial Derivatives up to second order; Homogeneity of functions and Euler's Theorem; Total Differentials; Differentiation of implicit function with the help of total differentials, Maxima and Minima; cases of one variable involving second or higher order derivatives; Cases of two variables involving not more than one constraint.		

Books for References:

1. Basic Mathematics, Allel R.G.A, Macmillan, New Delhi.
2. Mathematics for Economics, Dowling, E.T. , Schaum's Series, McGraw Hill, London.
3. Quantitative Techniques in Management, Vohra, N.D., Tata McGraw Hill, New Delhi.
4. Business Mathematics, Soni R.S., Pitamber Publishing House, Delhi.

Course Articulation Matrix – 21OEMAT102

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	1	-	1	2	1	1	1	1	1	1
CO 2	3	2	1	1	1	2	1	-	1	1	-	1
CO 3	3	3	2	2	1	2	1	1	1	1	1	1
Weighted Average	**3**	**2.67**	**1.33**	**1.5**	**1**	**2**	**1**	**1**	**1**	**1**	**1**	**1**

OE(1) Mathematics Syllabus for All Programs (Except Science)

Semester I

Course Code: 21OEMAT103	**Course Title: O**E(1) Mathematical Aptitude - I
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week:** 03 Hour (Theory)
Total Contact Hours: 42 Hours (Theory)	**Formative Assessment Marks:** 40
Exam Duration: 2 ½ Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO 1: Evaluate problems on Number system, Series, divisibility, LCM, HCF, Fraction.
CO 2: Strategies to solve problems on Trains, Boats and Streams with Speed and Accuracy.
CO 3: Analyze and Evaluate problems on Time, Work and Wages, Pipes and Cistern, Problems on Clock and Calendar.

Course Content

UNIT – 1	14 HOURS
Number System, Types of Numbers, series (AP and GP), Algebraic operations BODMAS, Divisibility, LCM and HCF, Fraction, Simplification.	

UNIT – 2	14 HOURS
Time and Distance, Problems based on Trains, Boats and Streams.	

UNIT – 3	14 HOURS
Time, work and wages, Pipes and Cistern, Problems on Clock, Problems on Calendar.	

Books for References:

1. R.S. Aggarwal, "Quantitative Aptitude for Competitive Examinations", Revised Edition, S. Chand and Co. Ltd, New Delhi, 2018.
2. Quantitative Aptitude and Reasoning by R V Praveen, PHI publishers.
3. Quantitative Aptitude : Numerical Ability (Fully Solved) Objective Questions, Kiran Prakashan, Pratogitaprakasan, Kic X, Kiran Prakasan publishers.
4. Quantitative Aptitude for Competitive Examination by Abhijit Guha, Tata Mc Graw hill publications.

Course Articulation Matrix – 21OEMAT103

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	3	1	2	1	3	1	1	-	-	1	3
CO 2	2	3	1	2	1	3	1	1	1	1	1	3
CO 3	2	3	1	2	1	3	1	1	1	1	1	3
Weighted Average	2	3	1	2	1	3	1	1	1	1	1	3

DSC(2) Syllabus for B.Sc. Mathematics (Basic and Honors)

Semester II

Course Code:212239	Course Title: DSC(2): Algebra – II (Number Theory) and Calculus - II DSC(2) Lab : Theory based Practical's on Algebra – II (Number Theory) and Calculus – II
Course Credits:06 (4:0:2)	**Hours of Teaching/Week:** 04 (Theory) + 04 (Practical)
Total Contact Hours: 56 Hours (Theory) 56Hours (Practical)	**Formative Assessment Marks:** 40 (Theory) 25 (Practical)
Exam Duration: 2 ½ Hours (Theory) 3 Hours (Practical)	**Semester End Examination Marks:** 60 (Theory) 25 (Practical)

Course Outcomes (COs):

CO 1: Acquiring the basic knowledge of divisibility, congruency, GCD, Prime and prime factorization, applying the concept of Euler function, Fermat's and Wilson's Theorem, Evaluating the product of r consecutive integers is divisible.

CO 2: Applying the skills of fundamental theorems in solving problems.

CO 3: Construct extreme values of function of the variables using partial derivatives and total derivatives.

CO 4: Classification of line and multiple integrals in solving problems. Evaluation of surface Area and Volume of conic sections using multiple integrals.

Course Content

Content	Hours
UNIT – 1	
Number Theory: Division Algorithm, Divisibility, Prime and composite numbers, Euclidean algorithm, Fundamental theorem of Arithmetic, The greatest common divisor and least common multiple. Congruences, Linear congruences, Simultaneous congruences, Euler's Phi-function, Wilson's, Euler's and Fermat's Theorems and their applications.	**14**

UNIT – 2	
Differential Calculus-I : Limits, Continuity, Differentiability and properties. Properties of continuous functions. Intermediate value theorem, Rolle's Theorem, Lagrange's Mean Value theorem, Cauchy's Mean value theorem and examples. Taylor's theorem, Maclaurin's series, Indeterminate forms and evaluation of limits using L'Hospital rule.	**14**
UNIT – 3	
Partial Derivatives : Functions of two or more variables-explicit and implicit functions, partial derivatives. Homogeneous functions- Euler's theorem and extension of Euler's theorem, total derivatives, differentiation of implicit and composite functions, Jacobians and standard properties and illustrative examples. Taylor's and Maclaurin's series for functions of two variables, Maxima-Minima of functions of two variables.	**14**
UNIT – 4	
Integral Calculus-II : *Line integral*: Definition of line integral and basic properties, examples on evaluation of line integrals. *Double integral*: Definition of Double integrals and its conversion to iterated integrals. Evaluation of double integrals by changing the order of integration and change of variables. Computation of plane surface areas using double integrals. *Triple integral*: Definition of triple integrals and evaluation, change of variables, volume as triple integral.	**14**

Books for References:
1. Differential Calculus, Shantinarayan, S. Chand & Company, New Delhi.
2. Applications of Calculus, Debasish Sengupta, Books and Allied (P) Ltd., 2019.
3. Calculus – Lipman Bers, Holt, Rinehart & Winston.
4. Calculus - Shanthinarayanan & T. K. Manicavachogam Pillay, S. Viswanathan Pvt. Ltd., vol. I & II.
5. Schaum's Outline of Calculus - Frank Ayres and Elliott Mendelson, 5th ed. USA: Mc. Graw Hill, 2008.
6. Integral Calculus, Shanthinarayan, New Delhi: S. Chand and Co. Pvt. Ltd.
7. Integral Calculus, Shantinarayan and P K Mittal, S. Chand and Co. Pvt. Ltd.
8. Text Book of B.Sc. Mathematics, G K Ranganath, S Chand & Company.
9. David M Burton, Elementary Number Theory, 6th edition, McCraw Hill, 2007.
10. Emil Grosswald, Topics from the Theory of Numbers, Modern Birhauser, 1984.
11. Ivan Niven, Herbert S. Zuckerman and Hugh L. Montgomery, An Introduction to the Theory of Numbers, John Willey (New York), 1991.

Mathematics Web links:

1. http://scienceworld.wolfram.com/biography/topics/Mathematicians.html
2. http://teachers.sduhsd.k12.ca.us/abrown/index2.html
3. http://www.maths.tcd.ie/pub/HistMath/People/RBallHist.html
4. http://www.geometry.net/math.html
5. http://www-history.mcs.st-andrews.ac.uk/history/Indexes/Full_Alph.html
6. http://mathforum.org
7. http://www.cut-the-knot.org
8. http://nrich.maths.org
9. http://archives.math.utk.edu/
10. http://www-groups.dcs.st-and.ac.uk/~history/
11. http://www.maa.org/
12. http://e-math.ams.org/
13. Website on Books in Mathematics

Practical/Lab Work to be performed in Computer Lab Suggested Software's:

Maxima/Scilab//Python/R.

1. Programs related to Number Theory.
2. Limits and Continuity.
3. Differentiability.
4. Program to verify Mean value theorems.
5. Program for finding the Taylor's and Maclaurin's expansions of the given functions.
6. Program to verify the Euler's theorem and its extension.
7. Programs to construct series using Maclaurin's expansion for functions of two variables.
8. Program to evaluate the line integrals with constant and variable limits.
9. Program to evaluate the Double integrals with constant and variable limits.
10. Program to evaluate the Triple integrals with constant and variable limits.

Course Articulation Matrix - 212239

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	2	1	1	1	1	-	1	-	1	-	1
CO 2	3	3	1	1	1	2	1	1	-	1	1	2
CO 3	3	3	1	2	1	-	-	1	1	1	-	1
CO 4	3	3	2	1	2	1	1	1	1	1	1	2
Weighted Average	3	2.75	1.25	1.25	1.25	1.33	1	1	1	1	1	1.5

OE(2) Mathematics Syllabus for All Programs (Except Science)

Semester II

Course Code: 21OEMAT201	**Course Title:** OE(2) Optional Mathematics – II
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week:** 03 Hour (Theory)
Total Contact Hours: 42 Hours (Theory)	**Formative Assessment Marks:** 40
Exam Duration: 2 ½ Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO 1: Acquiring the basic knowledge of divisibility, congruency, GCD, Prime and prime factorization, applying the concept of Euler function, Fermat's and Wilson's Theorem, Evaluating the product of r consecutive integers is divisible.

CO 2: Applying the skills of fundamental theorems in solving problems.

CO 3: Construct extreme values of function of the variables using partial derivatives and total derivatives.

Course Content

UNIT – 1	**Number Theory**	**14 HOURS**

Division Algorithm, Divisibility, Prime and composite numbers, Euclidean algorithm, Fundamental theorem of Arithmetic, The greatest common divisor and least common multiple. Congruence, Linear congruence, Simultaneous congruence, Euler's Phi-function, Wilson's, Euler's and Fermat's Theorems and their applications.

UNIT – 2	**Partial Derivatives**	**14 HOURS**

Functions of two or more variables-explicit and implicit functions, partial derivatives, Homogeneous functions- Euler's theorem and extension of Euler's theorem, total derivatives, differentiation of implicit and composite functions, Jacobians and standard properties and illustrative examples. Taylor's and Maclaurin's series for functions of two variables, Maxima-Minima of functions of two variables.

UNIT – 3	**Integral Calculus**	**14 HOURS**

Line integral: Definition of line integral and basic properties, examples on evaluation of line integrals. *Double integral*: Definition of Double integrals and its conversion to iterated integrals. Evaluation of double integrals by changing the order of integration and change of variables. Computation of plane surface areas, *Triple integral*: Definition of triple integrals and evaluation-change of variables, volume as triple integral.

Books for References:

1. Differential Calculus, Shanti Narayan, S. Chand & Company, New   Delhi.
2. Applications of Calculus, Debasish Sengupta, Books and Allied (P) Ltd., 2019.
3. Calculus – Lipman Bers, Holt, Rinehart & Winston.
4. Calculus - Shanthinarayanan & T. K. Manicavachogam Pillay, S. Viswanathan Pvt. Ltd., vol. I & II.
5. Schaum's Outline of Calculus - Frank Ayres and Elliott Mendelson, 5th ed. USA: Mc. Graw Hill, 2008.
6. Integral Calculus, Shanthinarayan, S. Chand and Co. Pvt. Ltd.
7. Integral Calculus, Shantinarayan and P K Mittal, S. Chand and Co. Pvt. Ltd.
8. Text Book of B.Sc. Mathematics, G K Ranganath, S Chand & Company.
9. David M Burton, Elementary Number Theory, 6th edition, McCraw Hill, 2007.
10. Emil Grosswald, Topics from the Theory of Numbers, Modern Birhauser, 1984.
11. Ivan Niven, Herbert S. Zuckerman and Hugh L. Montgomery, An Introduction to the Theory of Numbers, John Willey (New York), 1991.

Course Articulation Matrix – 21OEMAT201

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	2	1	1	1	1	-	1	-	1	-	1
CO 2	3	3	1	1	1	2	1	1	-	1	1	2
CO 3	3	3	1	2	1	-	-	1	1	1	-	1
Weighted Average	3	2.67	1	1.33	1	1.5	1	1	1	1	1	1.33

OE(2) Mathematics Syllabus for All Programs (Except Science)

Semester II

Course Code: 21OEMAT202	**Course Title:** OE(2) Business Mathematics – II
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week:** 03 Hour (Theory)
Total Contact Hours: 42 Hours (Theory)	**Formative Assessment Marks:** 40
Exam Duration: 2 ½ Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO 1: Apply the concept of profit, loss, discount, marked price, simple and compound interest, Taxes, Ratio, Installments, Percentage, Interest of reducing balance and flat interest to evaluate problems in everyday life.

CO 2: Measure the central tendency, Describing median, mode, AM, GM, HM. Represents dispersion by range, deviation, variance, standard deviation and standard error.

CO 3: Analyze and interpret correlation and regression by various methods for ungrouped data. Evaluate correlation and regression applying their properties.

Course Content

UNIT – 1	Commercial Arithmeti	14 HOURS

Interest: Concept of Present value and Future value, Simple interest, Compound interest, Nominal and Effective rate of interest, Examples and Problems Annuity: Ordinary Annuity, Sinking Fund, Annuity due, Present Value and Future Value of Annuity, Equated Monthly Installments (EMI) by Interest of Reducing Balance and Flat Interest methods, Examples and Problems.

UNIT – 2	Measures of central Tendency and Dispersion	14 HOURS

Frequency distribution: Raw data, attributes and variables, Classification of data, frequency distribution, cumulative frequency distribution, Histogram and give curves. Requisites of ideal measures of central tendency, Arithmetic Mean, Median and Mode for ungrouped and grouped data. Combined mean, Merits and demerits of measures of central tendency, Geometric mean: definition, merits and demerits, Harmonic mean: definition, merits and demerits, Choice of A.M., G.M. and H.M. Concept of dispersion, Measures of dispersion: Range, Variance, Standard deviation (SD) for grouped and ungrouped data, combined SD, Measures of relative dispersion: Coefficient of range, coefficient of variation. Examples and problems.

UNIT – 3	Correlation and regression	14 HOURS

Concept and types of correlation, Scatter diagram, Interpretation with respect to magnitude and direction of relationship. Karl Pearson's coefficient of correlation for ungrouped data. Spearman's rank correlation coefficient. (with tie and without tie) Concept of regression, Lines of regression for ungrouped data, predictions using lines of regression. Regression coefficients and their properties (without proof). Examples and problems.

Books for References:

1. Practical Business Mathematics, S. A. Bari New Literature Publishing Company New Delhi
2. Mathematics for Commerce, K. Selvakumar Notion Press Chennai
3. Business Mathematics with Applications, Dinesh Khattar & S. R. Arora S. Chand Publishing New Delhi
4. Business Mathematics and Statistics, N.G. Das &Dr. J.K. Das McGraw Hill New Delhi
5. Fundamentals of Business Mathematics, M. K. Bhowal, Asian Books Pvt. Ltd New Delhi
6. Mathematics for Economics and Finance: Methods and Modelling, Martin Anthony and Norman, Biggs Cambridge University Press Cambridge
7. Financial Mathematics and its Applications, Ahmad Nazri Wahidudin Ventus Publishing APS Denmark
8. Fundamentals of Mathematical Statistics, Gupta S. C. and Kapoor V. K.:, Sultan Chand and Sons, New Delhi.
9. Statistical Methods, Gupta S. P.: Sultan Chand and Sons, New Delhi.
10. Applied Statistics, Mukhopadhya Parimal New Central Book Agency Pvt. Ltd. Calcutta.
11. Fundamentals of Statistics, Goon A. M., Gupta, M. K. and Dasgupta, B. World Press Calcutta.
12. Fundamentals of Applied Statistics, Gupta S. C. and Kapoor V. K.:, Sultan Chand and Sons, New Delhi.

Course Articulation Matrix – 21OEMAT202

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	1	-	1	3	1	2	-	1	1	1
CO 2	3	2	1	1	-	1	1	-	-	1	-	1
CO 3	3	2	1	1	1	2	1	1	1	1	-	1
Weighted Average	3	2.33	1	1	1	2	1	1.5	1	1	1	1

OE(2) Mathematics Syllabus for All Programs (Except Science)

Semester II

Course Code: 21OEMAT203	**Course Title:** OE(2) Mathematical Aptitude - II
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week:** 03 Hour (Theory)
Total Contact Hours: 42 Hours (Theory)	**Formative Assessment Marks:** 40
Exam Duration: 2 ½ Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO 1: Evaluate percentage, Average, Ratio & proportion, partnership, Mixture and Problems based on Ages.

CO 2: Imbibe the concept of profit, loss, discount, simple & compound interest, Shares and debentures in Everyday life.

CO 3: Execute various ways of particular assignments by the help of permutation and combination, probability, True and Banker's Discount.

Course Content

UNIT – 1	14 HOURS
Percentage, Average, Problems based on Ages, Ratio and Proportion, Partnership and share, Mixtures.	

UNIT – 2	14 HOURS
Profit, Loss and Discount, Simple Interest, Compound Interest, Shares and Debentures.	

UNIT – 3	14 HOURS
Permutations and Combinations, Probability, True discount and Banker's discount.	

Books for References:

1. R.S. Aggarwal, "Quantitative Aptitude for Competitive Examinations", Revised Edition, S. Chand and Co. Ltd, New Delhi, 2018.

2. Quantitative Aptitude and Reasoning by R V Praveen, PHI publishers.

3. Quantitative Aptitude : Numerical Ability (Fully Solved) Objective Questions, Kiran Prakashan Pratogitaprakasan, Kic X, Kiran Prakasan publishers.

4. Quantitative Aptitude for Competitive Examination by Abhijit Guha, Tata Mc Graw hill publications.

Course Articulation Matrix – 21OEMAT203

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	1	-	-	3	1	2	1	1	1	2
CO 2	3	3	1	-	-	3	1	2	1	1	1	2
CO 3	3	3	1	1	1	3	1	1	1	1	1	1
Weighted Average	3	3	1	1	1	3	1	1.67	1	1	1	1.67

Continuous Formative Evaluation/Internal Assessment (DSC & OE)

Total marks for each course shall be based on continuous assessments and semester end examinations. The pattern is 40:60 for IA and Semester End Theory Examinations respectively and 50:50 for IA and Semester End Practical Examinations respectively.

	THEORY	PRACTICAL
Total Marks	100 Marks	50 Marks
Continuous Assessment – 1 (C1)	20 Marks	10 Marks
Continuous Assessment – 2 (C2)	20 Marks	15 Marks
Semester End Examination (C3)	60 Marks	25 Marks

Evaluation Process of IA Marks shall be as follows:

a) The first component (C1) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, project work etc. This assessment and score process should be completed after completing 50% of syllabus of the course and within 45 working days of semester program.

b) The second component (C2) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, internship/industrial practicum/project work, quiz etc. This assessment and score process should be based on completion of remaining 50% of syllabus of the course of the semester.

c) During the 17th – 19th week of the semester, a semester end examination shall be conducted by the college for each course. This forms the third and final component of assessment (C3) and the maximum marks for the final component will be 60%.

d) In case of a student who has failed to attend the C1 or C2 on a scheduled date, it shall be deemed that the student has dropped the test. However, in case of a student who could not take the test on scheduled date due to genuine reasons, such a candidate may appeal to the Principal. The Principal in consultation with the concerned teacher shall decide about the genuineness of the case and decide to conduct special test to such candidate on the date fixed by the concerned teacher, but before commencement of the concerned semester end examinations.

e) For assignments, tests, case study analysis etc., of C1 and C2, the students should bring their own answer scripts (A4 size), graph sheets etc., required for such tests/assignments and these be sealed/signed by the concerned department at the time of conducting tests/assignment/project work etc.

f) The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) of a course shall be as under:

	C1 Marks	C2 Marks	Total Marks
Session Test	20	-	20
Seminar/Presentation/Assignment/Activity/Case Study/Field Work/Project Work/Quiz etc.	-	20	20
Total	20	20	40

- For practical course of full credits, seminar shall not be compulsory. In its place, marks shall be awarded for Practical Record Maintenance(the marks is 25 (10 + 15) and 25. Evaluated for a total of 50 Marks).

- Conduct of Test, Seminar, Case study/Assignment etc., can be either in C1 or in C2 component as decided by the college and concerned department/teacher.

- The teachers concerned shall conduct test/seminar/case study etc., The students should be informed about the modalities well in advance. The evaluated courses assignments during component I (C1) and component II (C2) of assessment are immediately provided to the candidates after obtaining acknowledgement in the register by the concerned teacher(s) and maintained by the Department. Before commencement of the semester end examination, the evaluated test, assignment etc., of C1 and C2 shall be obtained back to maintain them till the announcement of the results of the examination of the concerned semester.

g) The marks of the internal assessment shall be published on the notice board of the department/college for information of the students.

h) The internal assessment marks shall be communicated to the CoE at least 10 days before the commencement of the semester end examinations and the CoE shall have access to the records of such periodical assessments.

i) There shall be no minimum in respect of internal assessment marks.

j) Internal assessment marks may be recorded separately. A candidate who has failed or rejected the result, shall retain the internal assessment marks.

Scheme of Valuation for Practical Examinations

C1 and C2 are internal tests to be conducted during 8th and 16th weeks respectively of the semester. C3 is the semester-end examination conducted for 3 hours. The student will be evaluated on the basis of manual work, programme and its execution. The student has to compulsorily submit the practical record for evaluation during C2. For C3, the record has to be certified by the Head of the Department.

The student is evaluated for 25 marks in C1 and C2 as per the following scheme:

C1 Component: 10 Marks : This will be based on a practical test. This should be completed by the 8th week of the semester.

C2 Component : 15 Marks : This will be based on practical test / assignment for 10 marks and 5 marks for practical record. This should be completed by the 16th week of the semester.

C3 Component:

Main Examination of 3 hours duration :   Max Marks: 25 (20 + 5)
Three experiments will be given out of which two experiments are to be executed, each carrying 10 marks and 5 marks for viva.

The student is evaluated for 25 marks in **C3** as per the following scheme:

Assessment Criteria	Marks
For each Experiment Manual work – 04 Marks Program writing – 04 Marks Execution – 02 Marks	$10 \times 2 = 20$
Viva	05
Total	**25**

DSC Mathematics Theory Question Paper Pattern

Max. Marks: 60 Marks   **Exam Duration:** 2 ½ Hours

Instructions: Paper Setting
- The Question Paper is divided into 2 parts: Part - A and Part – B.
- Part – A: Should consist of **08 Questions** (2 Questions from each Unit). **6 Questions** to be answered.
- Part – B: Should consist of **4 Main** Questions (1 from Each Unit). **5 Sub Question** will be given, out of which **3 Questions** to be answer

Part A

Answer any six questions. Each Question carries 2 Marks.   **6×2 =12**

I.

  a.

  b.

   .

   .

  h

Part B

Answer any three questions. Each Question carries 4 Marks.   **3×4 =12**

II.

  a.

  b.

  c.

  d.

  e.

Answer any three questions. Each Question carries 4 Marks.   **3×4 =12**

III

  a.

  b.

  c.

  d.

  e.

Answer any three questions. Each Question carries 4 Marks.   **3×4 =12**

IV

  a.

  b.

  c.

  d.

  e.

Answer any three questions. Each Question carries 4 Marks.   **3×4 =12**

V

  a.

  b.

  c.

  d.

  e.

OE Mathematics Theory Question Paper Pattern

Max. Marks: 60 Marks   **Exam Duration:** 2 ½ Hours

Instructions: Paper Setting
- The Question Paper is divided into 2 parts: Part - A and Part – B.
- Part – A: Consist of **09 Questions.** (3 Questions from each Unit). **6 Questions** to be answered.
- Part – B: Consist of **3 Main** Questions (1 from Each Unit). **6 Sub Question** will be given, out of which **4 Questions** to be answer

Part A

Answer any six questions. Each Question carries 2 Marks.   6×2 =12

I
   a.
   b.
   .
   .
   i.

Part B

Answer any FOUR questions. Each Question carries 4 Marks.   4×4 =16

II
   a.
   b.
   c.
   d.
   e.
   f.

Answer any FOUR questions. Each Question carries 4 Marks.   4×4 =16

III
   a.
   b.
   c.
   d.
   e.
   f.

Answer any FOUR questions. Each Question carries 4 Marks.   4×4 =16

IV
   a.
   b.
   c.
   d.
   e.
   f.

Board of Studies

Sl.No.	Name and address	Designation	Signature
1	Dr. Sumathi M P HoD, Dept of Mathematics SBRR Mahajana First Grade College, Mysuru Mob. 9880810618 sumathimp.fgc@mahajana.edu.in	Chairperson	Sumathi. M.P
2	Prof. D D Somashekar Professor ,DOS in Mathematics Manasagangothri, Mysuru Mob. 9480057505 somashekara@maths.uni-mysore.ac.in	Member	
3	Dr M C Mahesh Kumar Assistant Professor GFGC, KR Puram, Bangalore-36 Mob. 9844753730 Softmahe15@gmail.com	Member	M. C. Mahes
4	Kemparaju R Assistant Professor Government college for women, Chintamani-563125 Mob. 9844335388 kemps007@gmail.com	Member	
5	Niranjan L Assistant Professor SBRR Mahajana First Grade College Mysuru, Mob: 9108257072 niranjankavi.np@gmail.com	Member	
6	Harshavardhana C N Assistant Professor Govt First Grade college for Women, Holenarasipura. Mob. 8971876885 cnhmaths@gmail.com	Member	

Sumathi. M.P
- Chairperson
BOS/BOE in Mathematics
SBRR Mahajana First Grade College
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Affiliated to University of Mysore Re-accredited by NAAC with 'A' Grade

College with Potential for Excellence

BOARD OF STUDIES (BoS)

DEPARTMENT OF MICROBIOLOGY

UG ✓

PG ☐

NEP Syllabi for I and II Semester B.Sc. Microbiology

2021-22

DEPARTMENT OF MICROBIOLOGY

Motto

Impart benefit to the society

Vision

To provide innovative research expertise

Mission

To expand the knowledge of scientific field research

Program Outcomes (POs) for Bachelor of Science

PO 1: Domain Knowledge - Acquire and apply knowledge of science in relevant areas.

PO 2: Problem Analysis – Recognize real-world problems and user's requirements to propose solutions for the same using basic principles of science.

PO 3: Design and Development of Solutions – Developing solutions and inferences for complex problems using critical and analytical thinking.

PO 4: Investigation & Research – Ability to formulate hypothesis, augment research questions and identify & refer relevant sources for examining or inspecting technical issues as per their level of understanding and knowledge.

PO 5: Use of Modern Techniques/Tools – Use digital resources, various software/platforms and appropriate techniques to interpret concepts of science.

PO 6: Impact of Science on Society – To prepare competent human resource and to develop scientific attitude at local and global levels for social benefit.

PO 7: Environment and Sustainability – Apply the knowledge gained for conserving environment and to handle environmental issues with sustainable solutions.

PO 8: Moral and Ethical Values – Imbibe moral values and professional ethics to maintain the integrality in a professional scenario while being aware of the cultural diversities.

PO 9: Individual and Team Work with Time Management – Work productively in a team or as an individual while exhibiting time management skills.

PO 10: Communication – Develop the caliber to convey various concepts of science effectively.

PO 11: Project Management and Finance – Set up enterprises/companies and build entrepreneurship, project management and finance planning skills.

PO 12: Life-long Learning – Engage in the art of self-directed learning.

SBRR MAHAJANA FIRST GRADE COLLEGE (AUTONOMOUS)

Board of Studies

Sl. No.	Category	Name and Designation	Address for Communication	e-Mail & Mobile number
1	Chairperson	Smt. Shruthi Prakash H P Assistant Professor & HoD	Department of Microbiology, SBRR Mahajana First Grade College, Mysuru -12	shruthiprakashhp.fgc @mahajana.edu.in 9731468085
2	Member	Ms. Spandana N Assistant Professor		spandanar.fgc @mahajana.edu.in 9449680239
3		Smt. Sangeetha K P Assistant Professor		sangeethasangeethakp @gmail.com 8431254737
4	Two Experts from Other University	Dr. Jamuna Bai A Assistant Professor	Department of Microbiology, Faculty of life Sciences, JSS – Academy of Higher Education and Research, Mysuru -570004	jamunabhounsle@gmail.com 9480278098
5		Dr. Sindhu R Assistant Professor		sindhur@jssuni,edu.in 9986297935
6	Nominee by the Vice Chancellor	Dr. Sreenivasa M Y Professor	DOS in Microbiology, UOM, Manasagangotri, Mysuru - 570005	sreenivasamy@gmail.com 9449054480
7	One Person from Industry/ Corporate Sector/Allied Area	Smt. Sushrutha Assistant Manager	Zeus Biotech Limited, Metagalli, Mysuru - 570016	sushruthazeus@gmail.com 8971703690
8	Alumnus	Dr. Chaitra Narayan Founder	Codagu Agritech-Eco, Plot no. 24/3 and 24/4, KIADB, Industrial area, kudlur PB #58, Kushalnagar -571234	codagu.agritech.giu @gmail.com 9886299801

SBRR MAHAJANA FIRST GRADE COLLEGE (AUTONOMOUS)

Year-wise Structure (NEP 2020): Microbiology

Discipline Specific Courses (DSC) and Open Elective (OE)

I Year

Course Type, Code and Title		Hours /Week		Credits	Maximum Marks			Exam Duration	Total
					IA		Exam		
		L	T/P	L:T:P	C1	C2	C3		Marks
Microbiology – I Semester									
212179	**DSC (1) -** General Microbiology	4	0	4:0:2 **(6 Credits)**	20	20	60	2½ Hours	150
	DSC (1) Lab - General Microbiology Lab	0	4		10	15	25	3 Hours	
OE (1)	Microbial Technology for Human Welfare **21OEMIB101**	3	0	3:0:0 **(3 Credits)**	20	20	60	2½ Hours	100
Microbiology – II Semester									
212279	**DSC (2) -** Microbial Biochemistry And Physiology	4	0	4:0:2 **(6 Credits)**	20	20	60	2½ Hours	150
	DSC (2)Lab - Microbial Biochemistry And Physiology Lab	0	4		10	15	25	3 Hours	
OE(2)	Environmental and Sanitary Microbiology **21OEMIB201**	3	0	3:0:0 **(3 Credits)**	20	20	60	2½ Hours	100

DSC (1) Syllabus for B.Sc. Microbiology (Basic and Honors)

Semester I

Course Code: 212179	**Course Title:** General Microbiology (Theory) General Microbiology Lab (Practical)
Course Credits (L:T:P) : 06 (4:0:2)	**Hours of Teaching/Week:** 04 (Theory) + 04 (Practical)
Total Contact Hours: 56 Hours (Theory) 56 Hours (Practical)	**Formative Assessment Marks:** 40 (Theory) 25 (Practical)
Exam Duration: 2½ Hours (Theory) 3 Hours (Practical)	**Semester End Examination Marks:** 60 (Theory) 25 (Practical)

Course Outcomes (COs):

CO 1: Acquisition of concepts of microbiology.

CO 2: Professional skills in handling microbes.

CO 3: Thorough applications of good laboratory andgood manufacturing practices in microbial quality control.

CO 4: Reviewing the structural organization and reproduction of microorganisms.

Course Content

Content	Hours
UNIT – 1: Historical development, major contributions, origin of microorganisms and microscopy	
Historical development of microbiology -Theory of spontaneous generation, Biogenesis and Abiogenesis. Contributions of Anton Von Leeuwenhoek, Louis Pasteur, Robert Koch, Joseph Lister and Edward Jenner, Alexander Fleming, Martinus Beijerinck, Elie Metchnikoff. Contributions of Indian scientists in the field of Microbiology. Branches of Microbiology, **Microcopy**- working principle, construction and operation of simple, compound microscopes.	**14**
UNIT – 2: Staining, sterilization and preservation of microorganisms	
Staining: Nature of stains, principles, mechanism, methods and types of staining-Simple, Differential-Gram staining, Acid fast staining, Structural staining of capsule, cell wall, endospore. **Sterilization:** Principles, types and techniques, Physical and chemical methods. Preservation of microorganisms: Methods of preservation of microorganisms; slant culture, stab culture, soil culture, mineral oil overlaying, glycerol preservation.	**14**
UNIT - 3: Types, structure, organization and reproduction of prokaryoticmicroorganism	
Overview of Prokaryotic Cell Structure: Size, shape, arrangement. Diagram of Prokaryotic cell organization, cell wall structure of Gram positive and negative bacteria, cell membrane; Cytoplasmic matrix- Cytoskeleton, ribosome, inclusion granules: Composition and function. **Nuclear Materials** – Bacterial chromosomes structure (its differences with the Eukaryotic chromosome); Extra Chromosomal materials. Components external to cell wall- capsule, slime, s- layer, pili, fimbriae, flagella; structure, motility, chemotaxis. **Bacterial Endospore** - Examples of endospore forming organisms, habitats, function, formation and germination. Reproduction in bacteria and bacterial cell cycle.	**14**

SBRR MAHAJANA FIRST GRADE COLLEGE (AUTONOMOUS)

UNIT - 4: Types, structure, organization and reproduction of eukaryoticmicroorganisms	
Over view of eukaryotic cell structure: General structure and types of cells; External cell Coverings and cell membrane. Structure and function of Cytoplasmic matrix. **cytoskeleton:** Structure and function; single Membrane organelles- Endoplasmic reticulum, Golgi complex, Lysosomes, Vesicles and Ribosomes; Double Membrane organelles- Nucleus, **Mitochondrion and Chloroplast**: Structure and Functions; Peroxisomes; Organelles of motility Structure and movement of flagella and cilia.	**14**

References:

1. Prescott, Harley, Klein's Microbiology, J.M. Willey, L.M. Sherwood, C.J. Woolverton, 7th International, edition 2008, McGraw Hill.

2. Foundations in Microbiology, K. P. Talaro, 7th International edition 2009, McGraw Hill.

3. A Textbook of Microbiology, R. C. Dubey and D. K. Maheshwari, 1st edition, 1999, S. Chand & Company Ltd.

4. Brock Biology of Microorganisms, M.T.Madigan, J.M.Martinko, P. V. Dunlap, D. P. Clark- 12th edition, Pearson International edition 2009, Pearson Benjamin Cummings.

5. Microbiology – An Introduction, G. J.Tortora, B. R.Funke, C. L. Case, 10th ed.2008,Pearson Education.

6. General Microbiology, Stanier, Ingraham et al, 4th and 5th edition 1987, Macmillan education limited.

7. Microbiology- Concepts and Applications, Pelczar Jr,Chan, Krieg, International ed, McGraw Hill.

8. Black, J.G. 2008. Microbiology principles and explorations. 7edn. John Wiley and Sons Inc., New Jersey 846 pp.

Weblinks:

1. https://www.britannica.com/science/microbiology

2. http://cattheni.edu.in/wp-content/uploads/2018/09/3.Staining-and-Sterilization-Techniques.pdf

3. https://courses.lumenlearning.com/suny-wmopen-biology2/chapter/the-structure-of-prokaryotes/

4. https://openstax.org/books/microbiology/pages/3-4-unique-characteristics-of-eukaryotic-cells

DSC (1): Practical
General Microbiology

(4Hrs/week) 2 Credits

1. Microbiological laboratory standards and safety protocols.
2 & 3. Operation and working principles of light and compound microscope.
4. Working principles and operations of basic equipments of microbiological laboratory (Autoclave, Hot Air Oven, Incubator, Laminar air flow chamber).
5. Applications of basic microbiological tools (Pipettes, Micropipette, Bunsenburner, Inoculation
loop, Inoculation needle).
6&7. Demonstration and observations of microorganisms under compound microscope (Algae, and
Cyanobacteria)
8. Demonstration of bacterial motility by hanging drop method.
9. Positive staining.
10. Negative staining.
11. Differential staining - Gram staining.
12. Bacterial endospore staining.
13. Staining of fungi by Lactophenol cotton blue.
14. &15. Microscopic measurement of microorganisms/spores using stage and ocular micrometer

Course Articulation Matrix – 212179

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	2	2	2	-	2	1	-	-	1	-	2
CO 2	2	2	2	2	-	2	2	-	-	1	-	2
CO 3	1	2	2	2	-	2	2	-	-	1	-	2
CO 4	2	2	2	2	-	-	-	-	-	1	-	2
Weighted Average	1.75	2	2	2	-	2	1.66	-	-	1	-	2

OE (1) Microbiology Syllabus for All Programs (Except Science)

Semester I

Course Code: 21OEMIB101	Course Title: Microbial Technology for Human Welfare
Course Credits (L:T:P): 03 (3:0:0)	Hours of Teaching/Week: 3 Hours (Theory)
Total Contact Hours: 42 Hours (Theory)	Formative Assessment Marks: 40
Exam Duration: 2½ Hours (Theory)	Semester End Examination Marks: 60

Course Outcomes (COs):

CO 1: Acquire information about Fermentation Microbial Technology.

CO 2: Considerate broader goals of Agricultural Microbiology.

CO 3: Appreciate the comprehension of antibiotic therapy, drugs and Vaccines.

Course Content

Content	Hours
UNIT – 1 Food and Fermentation Microbial Technology	
Fermented Foods – Types, Nutritional Values, Health Benefits- Prebiotics, Probiotics, Synbiotics and Nutraceutical Foods. **Fermented Products** – Alcoholic and nonalcoholic beverages, fermented dairy products, Fruit fermented drinks.	**14**
UNIT – 2 Agricultural Microbial Technology	
Microbial Fertilizers, Microbial Pesticides, Microbial Herbicides, Mushroom Cultivation and its nutritional value, BiogasProduction.	**14**
UNIT – 3 Pharmaceutical Microbial Technology	
Microbial Drugs – General Characteristics and Development of Drug Resistance. Antibiotics – Types, Functions and Antibiotic Therapy, Vaccines – Types, Properties, Functions and Schedules.	**14**

References:

1. Prescott, Harley, Klein's Microbiology, J.M. Willey, L.M. Sherwood, C.J. Woolverton, 7th International, edition 2008, McGraw Hill.
2. Brock Biology of Microorganisms, M.T.Madigan, J.M.Martinko, P. V. Dunlap, D. P. Clark-12th edition, Pearson International edition 2009, Pearson Benjamin Cummings.
3. Microbiology – An Introduction, G. J.Tortora, B. R.Funke, C. L. Case, 10th ed. 2008,Pearson Education.
4. Schlegel, H.G. 1995.General Microbiology. Cambridge University Press, Cambridge, 655pp.

Weblinks:

1. https://www.frontiersin.org/articles/10.3389/fpls.2015.00659/full
2. https://www.who.int/health-topics/vaccines-and-immunization#tab=tab_1
3. https://www.healthline.com/nutrition/8-fermented-foods

Course Articulation Matrix – 21OEMIB101

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	1	1	-	-	2	2	-	-	1	-	1
CO 2	2	1	1	-	1	2	2	-	-	1	-	1
CO 3	2	1	1	1	-	2	2	-	-	1	-	1
Weighted Average	2	1	1	1	1	2	2	-	-	1	-	1

DSC (2) Syllabus for B.Sc. Microbiology (Basic and Honors)

Semester II

Course Code: 212279	Course Title: Microbial Biochemistry and Physiology (Theory) Microbial Biochemistry and Physiology (Practical)
Course Credits (L:T:P) : 06 (4:0:2)	**Hours of Teaching/Week:** 04 (Theory) + 04 (Practical)
Total Contact Hours: 56Hours(Theory) 56 Hours(Practical)	**Formative Assessment Marks:** 40 (Theory) 25 (Practical)
Exam Duration: 2½ Hours (Theory) 3 Hours (Practical)	**Semester End Examination Marks:** 60 (Theory) 25 (Practical)

Course Outcomes (COs):

 CO 1: Compare the types of biomolecules, structure, and their functions.
 CO 2: Exhibit the skills to perform bioanalytical techniques.
 CO 3: Solicit proficiency on microbial growth and nutrition.
 CO 4: Acquire broader facts of Microbial respiration and Photosynthesis.

Course Content:

Content	Hours
UNIT - 1 Biochemical Concepts	
Basic Biochemical Concepts: Major elements of life and their primary characteristics, atomic bonds and molecules – bonding properties of carbon, chemical bonds- covalent and non covalent, Hydrogen bonds and Vander Waal Forces. **Biological Solvents:** Structure and properties of water molecule, Water as an universal solvent, polarity, hydrophilic and hydrophobic interactions, properties of water, Acids, bases, electrolytes, hydrogen ion concentration, pH, buffers and physiological buffer system.	**14**
UNIT - 2 Macromolecules – Types and Properties	
Carbohydrates: Definition, classification, properties and its importance. **Amino acids and proteins**: Definition, classification, properties and importance of aminoacids. **Lipids and Fats:** Definition, classification, properties and importance of lipids. **Vitamins**: Definition, properties and importance of chlorophyll,cytochrome and hemoglobin.	**14**
UNIT – 3 Microbial Physiology	
Microbial Growth: Definition of growth, Growth curve, phases ofgrowth, Influence of environmental factors on growth. Definition of generation time and specific growth rate. Synchronous growth, Continuous growth (chemostat and turbidostat), Diauxic growth. Measurement of Growth: Direct Microscopic count - Haemocytometer; Viable count, Membrane filtration; Electronic Counting; Measurement of cell mass; Turbidity measurements- spectrophotometer techniques. **Microbial Nutrition:** Microbial nutrients, Classification of organisms based on carbon source, energy source and electron source, Macro and micronutrients. Membrane Transport: Types of Cellular transport, Passive, Facilitated, Active, Group Translocation, Ion transduction Na K^+, ATPase.	**14**

UNIT – 4 Microbial Physiology- **Microbial Respiration, Microbial Photosynthesis**	
Microbial Respiration: Respiratory electron transport chain in bacteria, oxidation – reduction reactions, protein translocation, substrate level phosphorylation – inhibitors and mechanism, chemiosmotic coupling. Fermentation reactions (homo and hetero). **Microbial Photosynthesis:** Definition, Photosynthetic microorganisms, Oxygenic and Anoxygenic types, Light harvesting pigments, Apparatus and components of Photosynthesis , Photophosphorylation, CO_2 fixation pathways: Calvin cycle, Reductive TCA pathway.	**14**

References:
1. Cohen, Georges N, 2014, Microbial Biochemistry, Springer Netherlands.
2. Felix Franks, 1993; Protein Biotechnology, Humana Press, New Jersey.
3. Stryer L, 1995; Biochemistry, Freeman and Company, New York.
4. Voet & Voet, 1995; Biochemistry, John Wiley and Sons, New York.
5. Nelson and Cox, 2000; Lehninger Principles of Biochemistry, Elsevier Publ.
6. Harper, 1999; Biochemistry, McGraw Hill, New York.
7. Palmer T. (2001), Biochemistry, Biotechnology and Clinical Chemistry, HarwoodPublication, Chichester.
8. Boyer R. (2002), Concepts in Biochemistry 2nd Edition, Brook/ Cole, Australia.
9. Moat A. G., Foster J.W. Spector. (2004), Microbial Physiology 4th Edition Panama BookDistributors.

Weblinks:
1. https://www.austincc.edu/rohde/CHP7a.htm
2. https://www.slideshare.net/tamilsilambarasan/microbial-respiration
3. https://www.nature.com/articles/srep35496
4. https://iubmb.onlinelibrary.wiley.com/doi/10.1002/bmb.20727

DSC (2): Practical
Microbial Biochemistry and Physiology

(4Hrs/week) 2 Credits

1. Preparation of Physiological Saline and Serial dilution.
2. Study of Photographs (Colorimeter, Photosynthetic apparatus, Colony counter, Membrane filter).
3. Qualitative determination of Carbohydrates.
4&5. Qualitative determination of Proteins and Lipids.
6&7. Determination of bacterial growth by Spectrophotometric method & calculation of generation time.
8. Measurement of growth by cell number using Haemocytometer.
9. Cultivation of Anaerobic microorganisms using Gaspak method.
10. Isolation of microorganisms by Spread plate, Pour plate and Streak plate methods.
11. Effect of Carbon on the growth of the microorganisms.
12. Effect of Nitrogen on the growth of the microorganisms.
13. Effect of pH on bacterial growth.
14. Effect of Salt concentration on bacterial growth.
15. Effect of Temperature on bacterial growth.

Course Articulation Matrix - 212279

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	1	1	2	-	-	-	-	-	2	-	2
CO 2	1	1	1	2	2	-	-	-	-	2	-	2
CO 3	3	1	1	-	2	1	-	-	-	2	-	2
CO 4	3	1	1	-	-	1	-	-	-	2	-	2
Weighted Average	2.5	1	1	-	2	1	-	-	-	2	-	2

OE (2) Microbiology Syllabus for All Programs (Except Science)

Semester II

Course Code: 21OEMIB201	Course Title: Environmental and Sanitary Microbiology
Course Credits : 03 (3:0:0)	**Hours of Teaching/Week:** 3 Hours (Theory)
Total Contact Hours: 42 Hours (Theory)	**Formative Assessment Marks:** 40
Exam Duration: 2½ Hours (Theory)	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO 1: Comprehend the concepts of Microbial distribution in the environment.

CO 2: Considerate broader goals of detection and control of microbial contaminants**.**

CO 3: Impact of microbial infections and diseases on public health.

Course Content

Content	Hours
UNIT – 1 Soil and Air Microbiology	
Soil and Air as a major component of environment. Types and properties of soil and air. Distribution of microorganisms in soil and air. Major types of beneficial and harmful microorganisms in soil and air.	**14**
UNIT – 2 Water Microbiology	
Water as a major component of environment. Types, properties and uses of water. Microorganisms of different water bodies. Standard qualities of drinking water.	**14**
UNIT – 3 Sanitary Microbiology	
Public health hygiene and communicable diseases. Survey and surveillance of microbial infections. Airborne microbial infections (Tuberculosis), waterborne microbial infections (Cholera), Food borne microbial infections (Botulism). Epidemiology of microbial infections, their detection and control.	**14**

References:

1. Prescott, Harley, Klein's Microbiology, J.M. Willey, L.M. Sherwood, C.J. Woolverton, 7th International, edition 2008, McGraw Hill.
2. A Textbook of Microbiology, R. C. Dubey and D. K. Maheshwari, 1st edition, 1999, S.Chand & Company Ltd.
3. Brock Biology of Microorganisms, M.T.Madigan, J.M.Martinko, P. V. Dunlap, D. P. Clark- 12th edition, Pearson International edition 2009, Pearson Benjamin Cummings.
4. Microbiology- Concepts and Applications, Pelczar Jr,Chan, Krieg, International ed,McGraw Hill.

Weblinks:

1. https://gcwgandhinagar.com/econtent/document/1587964691air,soil%20and%20water%20bOrne%20microorganisms%20in%20food.pdf
2. https://repo.knmu.edu.ua/bitstream/123456789/28121/1/Kovalenko%20Sanitary%20microbiology.pdf
3. https://asm.org/Articles/2020/December/Why-Studying-Microorganisms-in-the-Air-Is-Vital

Course Articulation Matrix – 21OEMIB201

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	1	1	-	-	1	1	-	-	1	-	1
CO 2	2	1	1	2	-	1	1	-	-	1	-	1
CO 3	2	1	1	2	-	1	1	-	-	1	-	1
Weighted Average	2	1	1	2	-	1	1	-	-	1	-	1

Continuous Formative Evaluation/Internal Assessment

Total marks for each course shall be based on continuous assessments and semester end examinations. The pattern is 40:60 for IA and Semester End Theory Examinations respectively and 50:50 for IA and SemesterEnd Practical Examinations respectively.

	THEORY	PRACTICAL
Total Marks	100 Marks	50 Marks
Continuous Assessment – 1 (C1)	20 Marks	10 Marks
Continuous Assessment – 2 (C2)	20 Marks	15 Marks
Semester End Examination (C3)	60 Marks	25 Marks

Evaluation Process of IA Marks shall be as follows:

a) The first component (C1) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, project work etc. This assessment and score process should be completed after completing 50% of syllabus of the course and within 45 working days of semester program.

b) The second component (C2) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, internship/industrial practicum/project work, quiz etc. This assessment andscore process should be based on completion of remaining 50% of syllabus of the course of the semester.

c) During the 17th – 19th week of the semester, a semester end examination shall be conducted by the collegefor each course. This forms the third and final component of assessment (C3) and the maximum marks forthe final component will be 60%.

d) In case of a student who has failed to attend the C1 or C2 on a scheduled date, it shall be deemed that the student has dropped the test. However, in case of a student who could not take the test on scheduled date due to genuine reasons, such a candidate may appeal to the Program Coordinator/Principal. The Program Coordinator/Principal in consultation with the concerned teacher shall decide about the genuineness of the case and decide to conduct special test to such candidate on the date fixed by the concerned teacher, but before commencement of the concerned semester end examinations.

e) For assignments, tests, case study analysis etc., of C1 and C2, the students should bring their own answer scripts (A4 size), graph sheets etc., required for such tests/assignments and these be sealed/signed by the concerned department at the time of conducting tests/assignment/project work etc.

f) The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) of a courseshall be as under:

	C1 Marks	C2 Marks	Total Marks
Session Test	20	-	20
Seminar/Presentation/Assignment/ Activity/ Case Study/Field Work/Project Work/Quiz etc.	-	20	20
Total	20	20	40

- For practical course of full credits, seminar shall not be compulsory. In its place, marks shall be awarded for Practical Record Maintenance (the ratio is 25 (10 + 15):25).

- Conduct of Test, Seminar, Case study/Assignment etc., can be either in C1 or in C2 component as decidedby the college and concerned department/teacher.

- The teachers concerned shall conduct test/seminar/case study etc., The students should be informed about the modalities well in advance. The evaluated courses assignments during component I (C1) and component II (C2) of assessment are immediately provided to the candidates after obtaining acknowledgement in the register by the concerned teacher(s) and maintained by the Department. Before commencement of the semester end examination, the evaluated test, assignment etc., of C1 and C2 shall beobtained back to maintain them till the announcement of the results of the examination of the concerned semester.

g) The marks of the internal assessment shall be published on the notice board of the department/college for information of the students.

h) The internal assessment marks shall be communicated to the CoE at least 10 days before the commencement of the examinations and the CoE shall have access to the records of such periodical assessments.

i) There shall be no minimum in respect of internal assessment marks.

j) Internal assessment marks may be recorded separately. A candidate, who has failed or rejected the result, shall retain the internal assessment marks.

Scheme of Valuation for Practical Examinations

C1 and C2 are internal tests to be conducted during 8th and 16th weeks respectively of the semester. C3 is the semester-end examination conducted for 3 hours. The student will be evaluated on the basis of procedure development and its execution. The student has to compulsorily submit the practical record for evaluation during C2. For C3, the record has to be certified by the Head of the Department.

- The student is evaluated for 25 marks in C1 and C2 as per the
    following scheme:Part-A (C1): 10 marks
    Part-B (C2): 10 marks + Record: 05 marks = 15 marks
- The student is evaluated for 25 marks in C3 as per the following scheme:

Part A		
	Major question	08
Part B	Minor question	04
Identify and comment (Any four photographs: Decided by the External Examiner)		08
Viva Voce		05
TOTAL		**25**

DSC Theory Question Paper Pattern
B.Sc MICROBIOLOGY

Duration: 2½ Hours   Maximum: 60 Marks

Instructions: All questions are compulsory.
Draw neat labeled diagrams wherever necessary.

I   **Define any FIVE of the following**   **5X2=10 Marks**

    1. (a)   **(b)**

       (c)   **(d)**

       (e)   **(f)**

       (g)

II   **Write short notes any FIVE of the following**   **5X6=30 Marks**

       (2)   **(6)**

       (3)   **(7)**

       (4)   **(8)**

       (5)

III   **Answer any TWO of the following**

                                          2X10=20 Marks

      (9)

      (10)

      (11)

      (12)

PATTERN OF PRACTICAL EXAMINATION

Practical examination – B.Sc MICROBIOLOGY- C3

Duration: 3 hours   Max. Marks: 25

Q. 1   Major question   08 Marks

Q. 2   Minor question   04 Marks

Q. 3   Identify and comment   2X4 = 08Marks

Q. 4   Viva-voce   05 Marks

Open Elective Theory Question Paper Pattern
B.Sc MICROBIOLOGY

Duration: 2½ Hours   Maximum: 60 Marks

Instructions: All questions are compulsory.
Draw neat labeled diagrams wherever necessary.

I Define any FIVE of the following   **5X2=10 Marks**

    1. (a)   **(b)**

    (c)   **(d)**

    (e)   **(f)**

    (g)

II Write short notes any FIVE of the following   **5X6=30 Marks**

    (2)   **(6)**

    (3)   **(7)**

    (4)   **(8)**

    (5)

III Answer any TWO of the following

                                         2X10=20 Marks

    (9)

    (10)

    (11)

    (12)

DEPARTMENT OF PHYSICS

Motto

Physics for Progress

Vision

Science and Technology for Better Future

Mission

Imparting Physics education with a professional approach to make citizens that are scientifically tempered to invent and discover

Program Outcomes (POs) for Bachelor of Science

PO 1: Domain Knowledge - Acquire and apply knowledge of science in relevant areas.

PO 2: Problem Analysis – Recognize real-world problems and user's requirements to propose solutions for the same using basic principles of science.

PO 3: Design and Development of Solutions – Developing solutions and inferences for complex problems using critical and analytical thinking.

PO 4: Investigation & Research – Ability to formulate a hypothesis, augment research questions and identify & refer relevant sources for examining or inspecting technical issues as per their level of understanding and knowledge.

PO 5: Use of Modern Techniques/Tools – Use digital resources, various software/ platforms and appropriate techniques to interpret concepts of science.

PO 6: Impact of Science on Society – To prepare competent human resources and to develop scientific attitudes at local and global levels for social benefit.

PO 7: Environment and Sustainability – Apply the knowledge gained for conserving the environment and to handle environmental issues with sustainable solutions.

PO 8: Moral and Ethical Values – Imbibe moral values and professional ethics to maintain integrality in a professional scenario while being aware of cultural diversities.

PO 9: Individual and Team Work with Time Management – Work productively in a team or as an individual while exhibiting time management skills.

PO 10: Communication – Develop the caliber to convey various concepts of science effectively.

PO 11: Project Management and Finance – Set up enterprises/companies and build entrepreneurship, project management and finance planning skills.

PO 12: Life-long Learning – Engage in the art of self-directed learning.

List of BoS Members

Sl No	Category	Name & Designation	Address for Communication	Email & Mobile No.
1	Chairman	Sri. Manjunatha R Associate Professor & HoD	Department of Physics SBRR Mahajana First Grade College (A), Jayalakshmipuram, Mysuru - 12	manjukalp@yahoo.com 9611075347
2	Members	Poornima S Assistant Professor	Department of Physics SBRR Mahajana First Grade College (A), Jayalakshmipuram, Mysuru - 12	psmks2@gmail.com 9844815838
3		Gayathri V Assistant Professor	Department of Physics SBRR Mahajana First Grade College (A), Jayalakshmipuram, Mysuru - 12	gayatrivasu94@gmail.com 9980859170
4	Two Experts from Other University	Smt. Rajeshwari S Associate Professor	Department of Physics MES Degree College Malleshwaram, Bengaluru	srfeb2166@gmail.com 9900945312
5		Smt. Rupa Shree M P Associate Professor	Department of Physics DRM Science College, Davangere	rupa2friends@gmail.com 9449773064
6	Nominee by the Vice Chancellor	Dr.M.A.Sridhar Professor	DOS in Physics, Manasagangothri, Mysuru.	mas@physics.uni-mysore.ac.in 0821-2419333

7	Alumnus	Smt. M. Sushma Assistant Professor	Department of Physics Yuvaraja's College, Mysuru.	sushmamraju77@gmail.com 9986163654
8	One Person from Industry/ Corporate Sector/All ied Area	Dr.A.Chandrashekara Officer-in charge of help Physics unit	Officer-in charge of help Physics unitUCIL, MC Palle, Kadapa dist. Andrapradesh.	chandrabasav@yahoo.co.in 9481149674

Course Structure (NEP 2020)

Discipline Specific Courses (DSC) and Open Elective (OE)

I Year

Course type, code and Title		Hours/week		Credits	Maximum Marks			Exam Duration	Total
		L	T/P	L: T: P	C1	C2	C3		Marks
Physics- I Sem									
DSC(1) 212129	Mechanics and Properties of Matter	4	0	4:0:2 6 credits	20	20	60	$2\frac{1}{2}$ hours	150
	DSC(1)- Lab	0	4		10	15	25	3 hours	
OE(1)	**Energy Sources** 21OEPHY101	3	0	3:0:0 3credits	20	20	60	$2\frac{1}{2}$ hours	100
OE(2)	**Climate Science** 21OEPHY102								
Note: OE Any one to be selected									
Physics- II Sem									
DSC(2) 212229	Electricity and Magnetism	4	0	4:0:2 6 credits	20	20	60	$2\frac{1}{2}$ hours	150
	DSC(2)- Lab	0	4		10	15	25	3 hours	
OE(3)	**Astronomy** 21OEPHY201	3	0	3:0:0 3credits	20	20	60	$2\frac{1}{2}$ hours	100
OE(4)	**Medical Physics** 21OEPHY202								
Note: OE Any one to be selected									

DSC(1) Syllabus for B.Sc. Physics (Basic and Honors)

Semester I

Course Code: 212129	**Course Title:** DSC(1)- Mechanics and Properties of Matter (Theory) DSC(1)-lab
Course Credits: 06 (4:0:2)	**Hours of Teaching/Week:** 04 (Theory) + 04 (Practical)
Total Contact Hours: 56 Hours (Theory) 56 Hours (Practical)	**Formative Assessment Marks:** 40 (Theory) 25 (Practical)
Exam Duration: $2\frac{1}{2}$ Hours (Theory) 3 Hours (Practical)	**Semester-End Examination Marks:** 60 (Theory) 25 (Practical)

Course Outcomes (COs)	
CO1	Implementation of data on Units and measurement, Special theory of relativity. For tabulation and Monitoring of data to comprehend the accuracy of measurements and to analyze the sources of errors. And, also to gain knowledge of Energy and Momentum.
CO2	Analyze laws of motion and gravitational law and also acquire knowledge of momenta of inertia of different rigid bodies.
CO3	Implementation of various moduli of elasticity by experimental method to comprehend its applications.
CO4	Implement the experimental techniques adopted to evaluate surface tension and viscosity.

Course Content

Content	Hrs
Unit – 1	
Units and measurements: System of units (CGS and SI), measurement of length, mass and time, dimensions of physical quantities, dimensional formulae. Minimum deviation, errors. **Momentum and Energy**: Work and energy, Conservation of momentum (linear). Conservation of energy with examples. Motion of rockets. **Special Theory of Relativity:** Constancy of speed of light. Postulates of Special Theory of Relativity. Length contraction. Time dilation. Relativistic addition of velocities. Numerical problems.	12
Suggested Activities	02

Activity No. 1	(i) Students can measure the diameters of small balls of different sizes and estimate their volumes. (ii) Students can measure the lengths of nails of different sizes. (iii) Students can measure the volume of a liquid (iv) Students can measure distances and put the result both in CGS and SI units in 2, 3 and 4 significant figures. Ask them to mention the precession of the measurement. (v) Students can estimate standard deviations wherever possible.
Activity No. 2	Students can try and understand the conservation of energy in everyday examples. For example: (i) What happens in solar conservation panels (ii) Pushing an object on the table it moves (iii) A moving car hits a parked car and causes the parked car to move. In these cases, energy is conserved. How? Understand and verify if possible.

Content	Hrs
Unit – 2	
Laws of Motion: Newton's Laws of motion. Dynamics of single and a system of particles. Centre of mass. Numerical problems. **Dynamics of Rigid bodies**: Rotational motion about an axis, Relation between torque and angular momentum, Rotational energy. moment of inertia: M I of a rectangular Lamina and solid cylinders. Flywheel, Theory of compound pendulum and determination of g. Numerical problems. **Gravitation:** Law of Gravitation. Motion of a particle in a central force field (motion is in a plane, angular momentum is conserved, areal velocity is constant). Kepler's laws (statements). Satellite in a circular orbit. Numerical problems.	12

		02
	Suggested Activities	
Activity No. 3	Moment of inertia is an abstract concept. It simply gives a measure of t h e rotational inertia of a rigid body and it is proportional to the product of the square of the radius, r of the body and its mass, m. Students by referring to websites, can construct and perform simple experiments to verify that MI α mr^2. Reference: www.khanacademy.org, www.pinterest.com, www.serc.cerleton.edn	
Activity No. 4	Activity: Prepare suitable charts and give seminar talks in the class.	

Unit – 3

Elasticity: Hooke's law - Stress-strain diagram, elastic moduli-relation between elastic constants, Poisson's Ratio-expression for Poisson's ratio in terms of elastic constants. Work done in stretching and work done in twisting a wire-Twisting couple on a cylinder. Torsional pendulum-Determination of rigidity modulus and moment of inertia - q, η and σ by Searle's method. Numerical problems.	12

	Suggested Activities	02
Activity No. 5	Arrange a steel spring with its top fixed with rigid support on a wall and a meter scale alongside. Add 100 g load at a time on the bottom of the hanger in steps. This means that while putting each 100g load, we are increasing the stretching force by 1N. Measure the extension for loads up to 500g. Plot a graph of extension versus load. The shape of the graph should be a straight line indicating that the ratio of load to extension is constant. Go for higher loads and find out the elastic limit of the material.	
Activity No. 6	Repeat the above experiment with rubber and other materials and find out what happens after exceeding the elastic limit. Plot and interpret.	

Unit –4

Surface tension: Definition of surface tension. Surface energy, the relation between surface tension and surface energy, the pressure difference across the curved surface example, excess pressure inside t h e spherical liquid drop, and angle of contact. Numerical problems. **Viscosity:** Streamline flow, turbulent flow, equation of continuity, determination of coefficient of viscosity by Poisulle's method, Stoke's method. Numerical problems.	12
Topics for self-study (If any) Capillarity determination of surface tension by drop weight method.	

Suggested Activities		02

Activity No. 7	Measure the surface tension of water and other common liquids and compare and learn
	  (i) Why water has high ST? think of reasons.
	  (ii) Check whether ST is a function of temperature? You can do it by heating the water to different temperatures and measuring ST.
	  (iii) Plot ST versus T and learn how it behaves.
	
	Mix some quantity of kerosene or any oil to water and measure ST. Check whether ST for the mixture is more or less than pure water. List the reasons.	

Activity No. 8	Collect a set of different liquids and measure their viscosity.
	  (i) Find out whether sticky or non-sticky liquids are the most viscous. List the reasons.
	  (ii) Mix the nonsticky liquid with the sticky liquid in defined quantities and measure viscosity. Find out if the viscosity is increasing or decreasing with an increase in non-sticky liquid concentration.
	  (iii) Do the above experiment by mixing sticky liquid with nonsticky liquid. Find out the change in viscosity with an increase in the concentration of sticky liquid.
	List the applications where the concept of Viscosity plays a dominant role	

Textbooks

Sl No	Title of the Book	Authors Name	Publisher	Year of Publication
1.	Mechanics	D. S. Mathur	S.Chand & Co.	2000
3.	Mechanics Berkeley Physics Course, Vol.1:	Charles Kittel, *et.al*.	Tata McGraw-Hill	2007
4.	Properties of Matter	Brijlal & Subramanyam.	Eurasia Publishing House Limited,	1993

References Books

Sl No	Title of the Book	Authors Name	Publisher	Year of Publication
1.	Physics. 9th Edn,	Resnick, Halliday & Walter,	Wiley	2010
2.	Physics Vol-I	Halliday and Resnick,		

Weblinks

- https://www.fullonstudy.com/bsc-1st-year-physics-notes
- https://byjus.com/chemistry/properties-of-matter/
- https://edscl.in/course/view.php?id=347&section=3

DSC(1) lab
List of Experiments
Credit : L:T:P 0:0:2

(Minimum EIGHT experiments must be completed)

Sl No	Experiments
1	Determination of g using bar pendulum.
2	Determination of the moment of inertia of a Fly Wheel.
3	Determination of rigidity modulus using a torsional pendulum.
4	Modulus of rigidity of a rod – Static torsion method.
5	Determination of elastic constants of a wire by Searle's method.
6	Young's modulus by Koenig's method.
7	Viscosity by Stoke's method.
8	Verification of Hook's law.
9	Determination of surface tension of a liquid and the interfacial tension between two liquids using the drop weight method.
10	Study of motion of the spring and to calculate the Spring constant, g and unknown mass.
11	Determination of Young's modulus of a bar by the single cantilever method.
12	Determination of Young's modulus of a bar by uniform bending method.
13	The radius of the capillary tube by mercury pellet method.
14	Verification of parallel and perpendicular axis theorems.

Reference Book for Laboratory Experiments			
Sl No	Title of the Book	Authors Name	Publisher	Year of Publication
1	Physics through experiments	B.Saraf	Vikas Publications	2013
2	A lab manual of Physics for undergraduate classes, 1st Edition,		Vikas Publications.	
3	BSc Practical Physics Revised Ed	CL Arora	S.Chand & Co.	2007
4	An advanced course in practical physics.	D. Chattopadhyay, PC Rakshit, B.Saha	New Central Book Agency Pvt Ltd.	2002

Course Articulation Matrix- Course code 212129

Course outcomes	Program outcomes											
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	3	1	1	1	2	2	2	1	1	2	___	2
CO2	3	2	1	1	2	2	2	1	1	1	___	2
CO3	3	2	1	1	2	2	2	1	2	2	1	2
CO4	3	2	1	1	2	2	2	1	2	1	1	2
Weighted average	**3**	**1.75**	**1**	**1**	**2**	**2**	**2**	**1**	**1.5**	**1.5**	**1**	**2**

OE Physics Syllabus for All Programs (Except Science)

Semester I

Course Code: 21OEPHY101	**Course Title:** OE(1): Energy Sources
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week:** 03 Hour (Theory)
Total Contact Hours: 42 Hours	**Formative Assessment Marks:** 40
Exam Duration: $2\frac{1}{2}$ Hours	**Semester-End Examination Marks:** 60

Course Outcomes (COs)	
CO1	Acquiring knowledge of energy concepts and conventional energy sources in nonrenewable energy sources.
CO2	Gaining knowledge of renewable energy sources and solar energy with their applications.
CO3	Comprehending the knowledge of wind energy, tidal energy harvesting, geothermal and hydro energy utilization.

Course Content

Content	Hrs
Unit – 1: Non-Renewable energy sources	
Introduction: Energy concept-sources in general, its significance & necessity. Classification of energy sources: Primary and Secondary energy, Commercial and Non-commercial energy, Renewable and Non-renewable energy, Conventional and Non-conventional energy, Based on Origin-Examples and limitations. Importance of Non-commercial energy resources.	05
Conventional energy sources: Fossil fuels & Nuclear energy- production & extraction, usage rate and limitations. Impact on environment and their issues& challenges. Overview of Indian & world energy scenario with latest statistics-consumption & necessity. Need of eco-friendly & green energy & their related technology.	08
Unit – 2: Renewable energy sources	
Introduction: Need of renewable energy, and non-conventional energy sources. An overview of developments in Offshore Wind Energy, Tidal Energy, Wave energy systems, Ocean Thermal Energy Conversion, solar energy, biomass, biochemical conversion, biogas generation, geothermal energy tidal energy, and Hydroelectricity.	05
Solar Energy-Key features its importance, Merits & demerits of solar energy, and Applications of solar energy. Solar water heater, flat plate collector, solar distillation, solar cooker, solar greenhouses, solar cell -a brief discussion of each. Need and characteristics of photovoltaic (PV) systems, PV models and equivalent circuits, and sun-tracking systems.	08
Unit – 3	
Wind and Tidal Energy harvesting: Fundamentals of Wind energy, Wind Turbines and different electrical machines in wind turbines, Power electronic interfaces, and grid interconnection topologies. Ocean Energy Potential against Wind and Solar, Wave Characteristics and Statistics, Wave Energy Devices. Tide characteristics and Statistics, Tide Energy Technologies, Ocean Thermal Energy.	08
Geothermal and hydro energy: Geothermal Resources, Geothermal Technologies. Hydropower resources, hydropower technologies, and the environmental impact of hydropower sources. Carbon-captured technologies, cell, batteries, power consumption.	05

Suggested Activities	03
1. Demonstration of Solar energy, wind energy, etc, using training modules at Labs. 2. Conversion of vibration to voltage using piezoelectric materials. 3. Conversion of thermal energy into voltage using thermoelectric (using thermocouples or heat sensors) modules. 4. Project report on Solar energy scenario in India 5. Project report on Hydro energy scenario in India 6. Project report on wind energy scenario in India 7. Field trip to nearby Hydroelectric stations. 8. Field trip to wind energy stations like Chitradurga, Hospet, Gadag, etc. 9. Field trip to solar energy parks like Yeramaras near Raichur. Videos on solar energy, hydro energy and wind energy.	

Text books

1. Non-conventional energy sources - G.D Rai - Khanna Publishers, New Delhi
2. Solar energy - M P Agarwal - S Chand and Co. Ltd.
3. Solar energy - Suhas P Sukhative Tata McGraw - Hill Publishing Company Ltd.

Reference books

1. Godfrey Boyle, "Renewable Energy, Power for a sustainable future", 2004, Oxford University Press, in association with The Open University.
2. Dr. P Jayakumar, Solar Energy: Resource Assessment Handbook, 2009
3. J.Balfour, M.Shaw and S. Jarosek, Photovoltaics, Lawrence J Goodrich (USA).

Weblinks

➢ http://en.wikipedia.org/wiki/Renewable_energy
➢ https://www.energy.gov/energy-sources
➢ https://www.eia.gov/energyexplained/what-is-energy/sources-of-energy.php

Course Articulation Matrix- 21OEPHY101											
Course outcomes	Program outcomes										
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	3	2	2	1	2	2	2	1	1	1	___	1
CO2	3	2	2	1	2	2	2	1	2	1	1	1
CO3	3	1	2	1	2	2	2	1	2	1	1	1
Weighted average	**3**	**1.66**	**2**	**1**	**2**	**2**	**2**	**1**	**1.66**	**1**	**1**	**1**

OE Physics Syllabus for All Programs (Except Science)

Semester I

Course Code: 21OEPHY102	**Course Title:** OE(2): Climate Science
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week:** 03 Hour (Theory)
Total Contact Hours: 42 Hours	**Formative Assessment Marks:** 40
Exam Duration: $2\frac{1}{2}$ Hours	**Semester-End Examination Marks:** 60

Course Outcomes (COs)	
CO1	Developing knowledge about atmospheric science as a multidisciplinary concept.
CO2	Analyze the impact of atmospheric circulation on world climate and the influence of meteorological parameters and atmospheric stability.
CO3	Evaluate the contribution of greenhouse gases in Global warming and thereby bringing change in the climate.

Course Content

Content	Hrs
Unit – 1: Atmosphere	
Atmospheric Science (Meteorology) is a multidisciplinary science. Physical and dynamic meteorology, Some terminology, the difference between weather and climate, weather and climate variables, the composition of the present atmosphere: fixed and variable gases, volume mixing ratio (VMR), sources and sinks of gases in the atmosphere. Greenhouse gases. Structure (layers) of the atmosphere. Temperature variation in the atmosphere, temperature lapse rate, mass, pressure and density variation in the atmosphere. Distribution of winds.	13
Unit – 2: Climate Science	
Overview of meteorological observations, measurement of: temperature, humidity, wind speed and direction and pressure. Surface weather stations, upper air observational network, satellite observation. Overview of clouds and precipitation, aerosol size and concentration, nucleation, droplet growth and condensation (qualitative description). Cloud seeding, lightning and discharge. Formation of trade winds, cyclones. Modeling of the atmosphere: General principles, Overview of General Circulation Models (GCM) for weather forecasting and prediction. Limitations of the models. R and D institutions in India and abroad dedicated to climate Science, NARL, IITM, CSIR Centre for Mathematical Modeling and Computer Simulation, and many more	13
Unit – 3: Global Climate Change	
Greenhouse effect and global warming, Enhancement in concentration of carbon dioxide and other greenhouse gases in the atmosphere, Conventional and non-conventional energy sources and their usage. EL Nino/LA Nino Southern oscillations. Causes for global warming: Deforestation, fossil fuel burning, industrialization. Manifestations of global warming: Sea level rise, melting of glaciers, variation in monsoon patterns, increase in frequency and intensity of cyclones, hurricanes, and tornadoes. Geo-engineering as a tool to mitigate global warming? Schemes of geoengineering.	13

Suggested Activities	03

1. Try to find answer to the following questions:
   (a) Imagine you are going in a aircraft at an altitude greaten than 100 km. The air temperature at that altitude will be greater than 200ºC. If you put your hands out of the window of the aircraft, you will not feel hot.
   (b) What would have happened if ozone is not present in the stratosphere?
2. Visit a nearby weather Station and learn about their activities.
3. Design your own rain gauge for rainfall measurement at your place.
4. Learn to determine atmospheric humidity using the wet bulb and dry bulb thermometers.
5. Visit the website of the Indian Institute of Tropical Meteorology (IITM), and keep track of the occurrence and landfall of cyclone prediction.
6. Learn about the ozone layer and its depletion and ozone hole.
7. Keep track of the melting of glaciers in the Arctic and Atlantic region through a database available over several decades.

Watch documentary films on global warming and related issues (produced by amateur filmmakers and promoted by British Council and BBC).

References Books

1. Basics of Atmospheric Science – A Chandrashekar, PHI Learning Private Ltd. New Delhi, 2010.
2. Fundamentals of Atmospheric Modelling- Mark Z Jacbson, Cambridge University Press, 2000.

Weblinks

- https://climatescience.org
- https://wild.org/climate/
- https://warmheartworldwide.org/climate-change/

<table>
<tr><td colspan="13" align="center">Course Articulation Matrix- 21OEPHY102</td></tr>
<tr><td>Course outcomes</td><td colspan="12" align="center">Program outcomes</td></tr>
<tr><td></td><td>PO1</td><td>PO2</td><td>PO3</td><td>PO4</td><td>PO5</td><td>PO6</td><td>PO7</td><td>PO8</td><td>PO9</td><td>PO10</td><td>PO11</td><td>PO12</td></tr>
<tr><td>CO1</td><td>3</td><td>1</td><td>1</td><td>1</td><td>2</td><td>2</td><td>2</td><td>1</td><td>1</td><td>1</td><td>___</td><td>1</td></tr>
<tr><td>CO2</td><td>3</td><td>1</td><td>1</td><td>1</td><td>2</td><td>2</td><td>2</td><td>1</td><td>2</td><td>1</td><td>___</td><td>1</td></tr>
<tr><td>CO3</td><td>3</td><td>2</td><td>2</td><td>1</td><td>2</td><td>2</td><td>2</td><td>1</td><td>2</td><td>1</td><td>1</td><td>1</td></tr>
<tr><td>Wtd. Avg.</td><td>3</td><td>1.33</td><td>1.33</td><td>1</td><td>2</td><td>2</td><td>2</td><td>1</td><td>1.66</td><td>1</td><td>1</td><td>1</td></tr>
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DSC(2) Syllabus for B.Sc. Physics (Basic and Honors)

Semester II

Course Code: 212229	**Course Title:** DSC(2)- Electricity and Magnetism (Theory) DSC(2)-lab
Course Credits: 06 (4:0:2)	**Hours of Teaching/Week:** 04 (Theory) + 04 (Practical)
Total Contact Hours: 56 Hours (Theory) 56 Hours (Practical)	**Formative Assessment Marks:** 40 (Theory) 25 (Practical)
Exam Duration: $2\frac{1}{2}$ Hours (Theory) 3 Hours (Practical)	**Semester-End Examination Marks:** 60 (Theory) 25 (Practical)

Course Outcomes (COs)	
CO1	Comprehend Gauss Law, and Coulomb's law applying for point charges, and line charges and also differentiate the vector formalisms of Electrostatics.
CO2	Acquiring knowledge of Conductors in the Electrostatic field and to Analyse the properties of circuit elements.
CO3	Accomplishing the experimental laws of Magnetism and obtaining resonance in an LCR circuit
CO4	Analyzing Maxwell's equation in Electromagnetic waves to acquire knowledge of Electric current and Magnetism.

Course Content

Content	Hrs
Unit – 1	
Electric charge and field, Coulomb's law, electric field strength, electric field lines, point charge in an electric field and electric dipole, work done by a charge (derivation of the expression for potential energy). Numerical problems.	03
Gauss's law and its applications (electric fields of an (i) spherical charge distribution, (ii) line charge and (iii) an infinite flat sheet of charge). Numerical problems.	03
Electric potential, line integral, the gradient of a scalar function, and the relation between field and potential. Potential due to point charge and distribution of charges (Examples: potential associated with a spherical charge distribution, infinite line charge distribution, an infinite plane sheet of charges). Constant potential surfaces, Potential due to a dipole and electric quadrupole. Numerical problems.	06
Suggested Activities	02

Activity No. 1	1. Learn the difference between and DC and AC electricity and their characteristics. Voltage and line frequency standards in different countries. 2. A small project report on the production of electricity as a source of energy: Different methods.
Activity No. 2	1. Learn to use a multimeter (analog and digital) to measure voltage, current and resistance. Continuity testing of a wire. 2. Learn about household electrical connection terminals: Live, neutral and ground and the voltage between the terminals. Role of earthing and safety measures.

Content	Hrs
Unit – 2	
Conductors in an electrostatic field Conductors and insulators, conductors in electric field. Capacitance and capacitors, calculating capacitance in a parallel plate capacitor, parallel plate capacitor with dielectric, dielectrics: an atomic view. Energy stored in a capacitor, Dielectric and Gauss's law.	06
Electric currents and current density. Electrical conductivity and Ohm's law. Physics of electrical conduction, conduction in metals and semiconductors, circuits and circuit elements: Variable currents in capacitor circuits, Resistor, inductor and capacitor and their combination. force on a moving charge.	06

Suggested Activities		02
Activity No. 3	1. Learn about electrical appliances which work with AC and DC electricity 2. Learn about types of resistors and their colour codes and types of capacitors(electrolytic and non-electrolytic)	
Activity No. 4	1. Learn about power transmission: 3-phase electricity, voltage and phase 2. Visit a nearby electrical power station. Interact with linemen, Electrical engineers and managers. Discuss power loss in transmission. How to reduce it? 3. Prepare a small project report on street lighting and types of electrical bulbs..	

Unit – 3

Magnetism Definition of the magnetic field, Ampere's law and Biot-Savart law (magnetic force and magnetic flux), Magnetic force on a current carrying conductor, Hall effect. Electromagnetic induction, conducting rod moving in a magnetic field, law of induction and mutual inductance, self-inductance and energy stored in a magnetic field.	06
Alternating current circuits: Resonant circuit, alternating current, quality factor, RL, RC, LC, LCR circuits, admittance and impedance, power and energy in AC circuits.	06

Suggested Activities		02
Activity No. 7	1. Prepare a small project report on street lighting and types of electrical bulbs. **2.** Learn the measurement of electric current using a tangent galvanometer.	
Activity No. 8	Build a small coil with insulated copper wire. Connect an ammeter micro/milli ammeter. Verify magnetic induction using a powerful bar magnet.	

Unit – 4

Electromagnetic waves: Equation of continuity, Maxwell's equations, displacement current, electromagnetic wave, energy transported by electromagnetic waves. Electromagnetic waves in different frames of reference, Field of a current loop, magnetic moment, Electric current in atoms, electron spin and magnetic moment, magnetization and magnetic susceptibility.	08
Types of magnetic materials: diamagnetic, paramagnetic and ferromagnetic materials. B-H hysteresis curves and its characteristics Ferrites.	04

Suggested Activities		02
Activity No. 7	1. Prepare a small project report on production of magnetic field: Permanent magnets, electromagnets and superconducting magnets. 2. Learn the principle of working of a Gauss meter to measure magnetic field	
Activity No. 8	Model the earth's magnetic field with a diagram. Explain the effect of tilt of the earth's axis and reasons for the change in the tilt of the earth's axis over thousands of years.	

References Books				
Sl No	**Title of the Book**	**Authors Name**	**Publisher**	**Year of Publication**
1	Physics-Part-II,	David Halliday and Robert Resnick	Wiley Eastern Limited	2001
2	Berkeley Physics Course, Vol-2, Electricity and Magnetism, Special Edition	Edward M Purcell	Tata Mc Graw-Hill Publishing Company Ltd, New Delhi	2008

Weblinks

- https://faculty.wcas.northwestern.edu/infocom/Ideas/
- https://www.toppr.com/guides/physics/electromagnetism/electricity-and-magnetism/
- https://www.electricityforum.com/electricity-and-magnetism

DSC(2) lab
List of Experiments   Credit : L:T:P
0:0:2

(Minimum EIGHT experiments must be completed)

1	Experiment to determine the low resistance and hence to determine the specific resistance of the material of the wire.
2	Determination of components of earth's magnetic field using a Ballistic galvanometer.
3	Determination of capacitance of a condenser using B.G.
4	Determination of high resistance by leakage using B.G.
5	Determination of mutual inductance using BG.
6	Charging and discharging of a capacitor (energy dissipated during charging and time- constant measurements.
7	Series and parallel resonance circuits (LCR circuits).
8	The impedance of series RC circuits- determination of the frequency of AC.
9	Study the characteristics of a series RC and RL Circuit.
10	Determination of self-inductance of a coil.
11	Verification of laws of combination of capacitances and determination of unknown capacitance using the de-Sauty bridge.
12	Determination of B_H using Helmholtz double coil galvanometer and potentiometer

Course Articulation Matrix-Course code 212229											
Course outcomes	Program outcomes										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	1	1	2	2	2	1	2	1	1	2
CO2	3	2	1	1	2	2	2	1	2	1	1	2
CO3	3	2	1	1	2	2	2	1	2	2	1	2
CO4	3	3	1	1	2	2	2	1	2	2	1	2
Weighted average	3	2	1	1	2	2	2	1	2	1.5	1	2

OE Physics Syllabus for All Programs (Except Science)

Semester II

Course Code: 21OEPHY201	**Course Title:** OE(3): Astronomy
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week:** 03 Hour (Theory)
Total Contact Hours: 42 Hours	**Formative Assessment Marks:** 40
Exam Duration: $2\frac{1}{2}$ Hours	**Semester-End Examination Marks:** 60

Course Outcomes (COs)	
CO1	Gaining knowledge of Ancient Indian, Medieval and modern astronomy and Comprehending tool and methods implemented to observe heavenly bodies.
CO2	Acquiring knowledge of the solar system.
CO3	Monitoring the prominent stars and constellations visible during stipulated periods.

Course Content

Content	Hrs
Unit – 1: History and Introduction	
Ancient Astronomy Greek Observations, Sumerian Observations, Mayan Observations, Arabic Observations, and Chinese Observations.	03
Indian Astronomy Vedic Astronomy, Ancient Astronomy – Aryabhata, Varahamihira, Bhaskara Astronomy in Indian Scriptures, Precession of the Equinox, Celebrations of Equinox.	03
Medieval & Modern Astronomy The invention of Telescopes, Models of the Solar System & Universe, Observations by Tycho Brahe, Kepler, Galileo, Herschel and Others, and Modern Astronomy.	02
Optical tools for Astronomy Pin Hole, Binoculars, Telescopes & Imaging. Mathematical Methods of Observations Angular Measurement, Trigonometric functions, Stellar Parallax Observational Terminologies Cardinal Directions, Azimuth, Altitude, Measurements using Compass and Hand. Equatorial Coordinates, Light years, Magnitude, Colors, etc.	05
Unit – 2: Observations of the Solar System	
The Sun Ecliptic and the Orientation of the Earth, Seasons - Solstices and Equinox, Observations of the Sun from Earth during seasons. Eclipses, Zero-shadow day, The Moon Earth-Moon system – Phases, Lunar Eclipses, Ecliptic and Lunar Orbital Plane – Nodes, Lunar Month, Full Moon Names. Inner Planets: Mercury & Venus Observational History, Observational Windows, Appearance, Apparitions, Elongations, Superior Conjunctions, Inferior Conjunctions, Transits. Outer Planets Outer Planets: Mars, Jupiter & Saturn Observational History. Observational Windows, Appearance, Frequency of Oppositions, Conjunctions, Moons Eclipses. Galilean Moons, Saturn's Rings	13

Unit – 3: Major Astronomy Observations	
March to June Prominent Stars and Constellations Visible during this period, Methods of Spotting June to September Prominent Stars and Constellations Visible during this period, Methods of Spotting. September to December Prominent Stars and Constellations Visible during this period, Methods of Spotting. December to March Prominent Stars and Constellations Visible during this period, Methods of Spotting.	13
Suggested Activities	03
Experiment 1. Measuring Seasons using Sun's Position. 2. Measuring Distance using Parallax 3. Estimation of the Stellar Diameter using Pin Hole 4. Measuring Height of an Object Using Clinometer. 5. Star spotting using constellation maps 6. Constellation spotting using Skymaps 7. Estimation of 'Suitable Periods' to observe deep sky objects using Planisphere. 8. Estimation of the Size of the Solar System in using Light Years. 9. Identification of Lunar Phases across a year. 10. Measuring the Constellation of the Sun using Night Skymaps or Planispheres.	

Text Books
1. P. N. SHANKAR A GUIDE TO THE NIGHT SKY
2. Biman Basu, Joy of Star Watching, National Book Trust of India 2013

Reference books
1. The Stargazer's Guide - How to Read Our Night Sky by Emily Winterburn
2. A guide to the Night Sky – Beginner's handbook by P.N. Shankar
3. The Complete Idiot's Guide to Astronomy by Christopher De Pree and Alan Axelrod
4. Christopher De Pree: The Complete Idiot's Guide to Astronomy, Penguin USA, 2008.
5. Emily Winterburn, The Stargazer's Guide: How to Read Our Night Sky, Constable and Robinson, 2008.

Weblinks
➢ https://www.arvindguptatoys.com/arvindgupta/nightskyshankar.pdf
➢ https://egyankosh.ac.in/

Course Articulation Matrix- 21OEPHY201											
Course outcomes	Program outcomes										
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO1	3	1	1	1	2	2	1	1	1	1	___	1
CO2	3	1	1	1	2	2	1	1	1	1	1	1
CO3	3	1	1	2	2	2	----	1	1	1	----	1
Weighted average	**3**	**1**	**1**	**1.33**	**2**	**2**	**1**	**1**	**1**	**1**	**1**	**1**

OE Physics Syllabus for All Programs (Except Science)

Semester II

Course Code: 21OEPHY202	**Course Title:** OE(4): Medical Physics
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week:** 03 Hour (Theory)
Total Contact Hours: 42 Hours	**Formative Assessment Marks:** 40
Exam Duration: $2\frac{1}{2}$ Hours	**Semester-End Examination Marks:** 60

	Course Outcomes (COs)
CO1	Developing knowledge about human anatomy and physiology.
CO2	Analyze the knowledge in the field of Physics in medical diagnostics instruments.
CO3	Acquire knowledge about the physics behind radiotherapy.

Course Content

Content	Hrs
Unit – 1: Human Anatomy and Physiology	
Overview of human anatomy - cells, cell structure, type of cells and their functions, tissues, organs, and their functions. Different systems in the human body, their structure and function, physiological properties of the circulatory system, digestive system, respiratory system, reproductive system, excretory system, endocrine system and nervous system.	13
Unit – 2: Physics of Medical Diagnostics	
Principle of production of X-rays. Use of X-rays in medical diagnosis, X-ray imaging systems. Computed Tomography (CT): principle and generation of CT. Magnetic Resonance Imaging (MRI): basic principle and image characteristics. Ultrasound Imaging: Interaction of sound waves with body tissues, production of ultrasound, transducers, acoustic coupling, image formation, modes of image display and color Doppler.	13
Unit – 3: Physics of Radiotherapy	
Clinical aspects of radiation therapy: Biological basis of radiotherapy, radiation sources, radiation dose, time dose fractionation. External beam radiation therapy, radiation therapy modalities, production of radioisotopes, use of radioisotopes in therapy, particle and ion beam radiotherapy. Brachytherapy - the principle of brachytherapy and classification of brachytherapy techniques.	13
Suggested Activities	03
Class Room Activities- 1-3	

Activity No. 1	Students can demonstrate the shape, size, positions and functions of different organs in the body with the help of models.
Activity No. 2	The use of X-rays in the diagnosis of the fractured bone can be demonstrated with the help of a gamma source and a gamma ray survey meter. As the density of materials between the source and the detector changes the reading on the meter (or intensity of the beefing sound) changes.
Activity No. 3	i) Students can be asked to list out different type of cancers and possible causative factors. They can be asked to list out the healthy practices to reduce the risk of cancers. (ii) As there will be students from different disciplines in the OE course, group discussion can be arranged to discuss about their programme and outcome. This will be an opportunity for the students to know about other disciplines.

Activity No. 4	**Other related activities/projects:**
	1. Visit nearby hospitals/diagnostic centers to study the working of X-ray machines.
	2. Visit ultrasound diagnostic centers to study the principle and use of ultrasound in diagnosis.
	3. Project on principle and use of X-ray films in imaging.
	4. Visit radiotherapy centers to study the modalities of radiotherapy.

Text Books

1. C. H. Best and N. B. Taylor. A Test in Applied Physiology. Williams and Wilkins Company, Baltimore, 1999.
2. C. K. Warrick. Anatomy and Physiology for Radiographers. Oxford University Press, 2001.

3. Jerrold T. Bushberg. The Essential Physics for Medical Imaging (2nd Edition). Lippincott Williams & Wilkins, 2002.

4. Jean A. Pope. Medical Physics: Imaging. Heinemann Publishers, 2012.

5. Faiz M. Khan and Roger A. Potish. Treatment Planning in Radiation Oncology. Williams and Wilkins,

6. D. Baltas. The physics of modern brachytherapy for oncology. Taylor and Francis, 2007.

Reference book s

1. J. R. Brobek. Physiological Basis of Medical Practice. Williams and Wilkins, London, 1995.

2. Edward Alcamo, Barbara Krumhardt. Barron's Anatomy and Physiology the Easy Way. Barron's Educational Series, 2004.

3. Lippincott, Anatomy and Physiology. Lippincott Williams & Wilkins, 2002.

4. G. S. Pant. Advances in Diagnositc Medical Physics. Himalaya Publishing House, 2006.

5. AAPM Report No. 72. Basic Applications of Multileaf collimators, AAPM, USA, 2001.

6. AAPM Report No. 91. Management of Respiratory motion in radiation oncology, 2006.

7. CA Joslin, A. Flynn, E. J. hall. Principles and Practice of Brachytherapy. Arnold publications, 2001.

8. Peter Hoskin, Catherine Coyle. Radiotherapy in Practice. Oxford University Press, 2011.

9. W. R. Handee. Medical Radiation Physics. Year Book Medical Publishers Inc., London, 2003.

10. Donald T. Graham, Paul J. Cloke. Principles of Radiological Physics. Churchill Livingstone, 2003.

Weblinks

- https://aapm.onlinelibrary.wiley.com/journal/24734209
- https://en.wikipedia.org/wiki/Medical_physics
- https://www.medphys.org/

Course Articulation Matrix- 21OEPHY202												
Mapping of Course Outcomes (CO) Program Outcomes(PO)												
Course outcomes	Program outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	1	1	2	2	1	1	1	1	___	1
CO2	3	1	1	1	2	2	1	1	2	1	___	1
CO3	3	1	1	1	2	2	1	1	2	1	1	1
Weighted average	**3**	**1**	**1**	**1**	**2**	**2**	**1**	**1**	**1.66**	**1**	**1**	**1**

Continuous Formative Evaluation/ Internal Assessment

Total marks for each course shall be based on continuous assessments and semester-end examinations. The pattern of 40:60 for IA and Semester End theory examinations respectively and 50:50 for IA and Semester End practical examinations respectively.

	Theory	Practical
Total Marks for each Course	100 marks	50 marks
Continuous assessment-1 (C1)	20 marks	10 marks
Continuous assessment-2 (C2)	20 marks	15 marks
Semester End Examination (C3)	60 marks	25 marks

The evaluation process of IA marks shall be as follows:

a) The first component (C1) of the assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, fieldwork, project work, etc. This assessment and score process should be completed after completing 50% of the syllabus of the course/s and within 45 working days of the semester program

b) The second component (C2) of the assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, internship / industrial practicum/project work, etc. This assessment and score process should be based on the completion of the remaining 50 percent of the syllabus of the courses of the semester.

c) During the 17th – 19th week of the semester, a semester-end examination shall be conducted by the University for each Course. This forms the third and final component of the assessment (C3) and the maximum marks for the final component will be 60%.

d) In case of a student who has failed to attend the C1 or C2 on a scheduled date, it shall be deemed that the student has dropped the test. However, in case of a student who could not take the test on the scheduled date due to genuine reasons, such a candidate may appeal to the Principal. The Principal in consultation with the concerned teacher shall decide about the genuineness of the case and decide to conduct a special test for such candidate on the date fixed by the concerned teacher but before the commencement of the concerned semester-end examinations.

e) For assignments, tests, case study analysis, etc., of C1 and C2, the students should bring their own answer scripts (A4 size), graph sheets, etc., required for such tests/assignments and these be stamped by the concerned department using their department seal at the time of conducting tests/assignment/work, etc.

f) The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) of a course shall be as under.

	C1 marks	C2 marks	Total Marks
Session Test	20	---	20
Seminars/Presentations/Activity/ Case study /Assignment / Fieldwork / Project work etc.	---	20	20
Total	20	20	40

- For the practical course of full credits, the Seminar shall not be compulsory. In its place, marks shall be awarded for Practical Record Maintenance. (the ratio is 25 (10 + 15) and 25. Evaluated for a total of 50 Marks).
- Conduct of Test, Seminar, Case study / Assignment, etc. can be either in C1 or in the C2 component at the convenience of the concerned departmet/teacher.
- The teachers concerned shall conduct test / seminar / case study, etc. The students should be informed about the modalities well in advance. The evaluated course assignments during component I (C1) and component II (C2) of the assessment are immediately provided to the candidates after obtaining acknowledgment in the register by the concerned teachers(s) and maintained by the Department. Before the commencement of the semester-end examination, the evaluated test, assignment, etc. of C1 and C2 shall be obtained back to maintain them till the announcement of the results of the examination of the concerned semester.

g) The marks of the internal assessment shall be published on the notice board of the department/college for information of the students.

h) The Internal assessment marks shall be communicated to the CoE at least 10 days before the commencement of the examinations and the CoE shall have access to the records of such periodical assessments.

i) There shall be no minimum in respect of internal assessment marks.

j) Internal assessment marks may be recorded separately. A candidate who has failed or rejected the result shall retain the internal assessment marks.

Scheme of Valuation for Practical Examinations

C1 and C2 are internal tests to be conducted during the 8th and 16th weeks respectively of the semester. C3 is the semester-end examination conducted for 3 hours. The student will be evaluated based on skill, comprehension and recording of the results. The student has to compulsorily submit the practical record for evaluation during C1 and C2. For C3, the record has to be certified by the Head of the Department.

• The student is evaluated for 25 marks in C1 and C2 as per the following

scheme: Experiment: 10   for C1 (10 marks)

Experiment: 10, Record: 05 for C2 (15 marks)

• The student is evaluated for 25 marks in C3 as per the following

scheme: Experiment: 20, Viva: 05 for C3 (25 marks)

The experimental portion of the evaluation (C3) is carried out as per the following scheme:

formula with proper units and explanation	03
Setting up the apparatus/circuit connections	03
Taking readings and tabulating	07
Calculations and Graph	07
Viva	05
Total	25

DSC THEORY QUESTION PAPER PATTERN FOR I AND II SEMESTER

Max Marks: 60   Exam duration: $2\frac{1}{2}$ hours

Part-A

I. One question from each unit is to be given with an internal choice. Each question carries 10 marks

$4 \times 10 = 40$

  1   (a)
                               OR
                               (a)

  2   (a)
                               OR
                               (a)

  3   (a)
                               OR
                               (a)

  4   (a)
                               OR
                               (a)

Part-B

II.   One numerical problem must be given for each unit. Any three to be answered.

$3 \times 4 = 12$

  5

  6

  7

  8

Part-C

III One question must be given from each unit. Any four to be answered. $2 \times 4 = 08$

  9 (a)
    (b)
    (c)
    (d)
    (e)
    (f)

OPEN ELECTIVE THEORY QUESTION PAPER PATTERN FOR I AND II SEMESTER

Max Marks: 60   Exam duration: $2\frac{1}{2}$ hours

Part-A

I. One question must be given from each unit. Any three to be answered out of four questions

$3 \times 15 = 45$

1

2

3

4

Part-B

II. Numerical problems or short essay-type questions must be given from each unit. Answer any three out of four questions. $3\times 5 = 15$
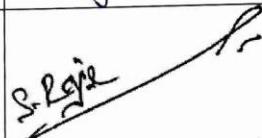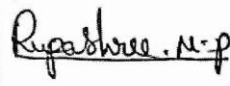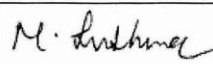
5

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Board of Studies

Sl.No.	Name and address	Designation	Signature
1	Sri.Manjunatha R HoD, Dept of Physics SBRR Mahajana First Grade College Mysore. Mob. 9611075347 manjukalp@yahoo.com	Chairman	Manjunatha.M 19/11/21
2	Dr.M.A.Sridhar Professor, DOS in Physics Manasagangothri, Mysuru 0821-2419333 mas@physics.uni-mysore.ac.in	Member	
3	Smt. Rajeshwari S Associate Professor MES Degree College, 15th cross, Malleshwaram Bengaluru-03 9900945312, srfeb2166@gmail.com	Member	S.Rgie
4	Smt. Rupa Shree M P Assistant Professor DRM Science college, Davangere rupa2friends@gmail.com Mob: 9449773064	Member	Rupashree.M.P
5	Dr.A.Chandrashekara Officer-in charge of help Physics unit UCIL,MC Palle, Kadapa dist. Andrapradesh. chandrabasav@yahoo.co.in Mob:9481149674	Member	Absent
6	Smt. Poornima S Assistant Professor SBRR Mahajana First Grade College Mysore, Mob: 9844815838 psmks2@gmail.com	Member	Poornima.S
7	Ms.Gayathri V Assistant Professor SBRR Mahajana First Grade College Mysore, Mob: 9980859170 gayatrivasu94@gmail.com	Member	Gayathri.V
8	Smt. M. Sushma Assistant Professor Department of Physics Yuvaraja's College, Mysore Mob:9986163654 sushmamraju77@gmail.com	Member	M. Sushma

SBRR Mahajana First Grade College (Autonomous), Jayalakshmipuram, Mysuru

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Mahajana Education Society (R.)
Education to Excel

SBRR MAHAJANA FIRST GRADE COLLEGE (Autonomous)

Jayalakshmipuram, Mysuru – 570 012
Affiliated to University of Mysore Re-accredited by NAAC with 'A' Grade
College with Potential for Excellence

DEPARTMENT OF PSYCHOLOGY

Motto: Enriching scientific thought & Promoting Pro-Social Behavior.

Vision: Thriving towards a scientifically driven environment for the development of Psychological literacy.

Mission: Enabling the 'Learner' to develop the Research attitude and explore new dimensions in Behavioral Sciences.

Program Outcomes (PO,s) - "Bachelors of Arts"	
PO1	**Domain Knowledge:** Inculcation of fundamental concepts, principles, methods and the application of the same in the realm of concerned domain.
PO2	**Problem Analysis:** This programme enhances the ability to define, identify and analyze appropriate means towards amicable solutions in the given area of Knowledge.
PO3	**Design & Development of Solutions:** Structuring theoretical knowledge and developing customized designs in terms of – Intervention strategies, Profiling, Reviews, Archives, Marketing strategies, Info-graphics and Approaches for arriving at relevant and desirable solutions.
PO4	**Research & Investigation**: Knowledge and application of "Research Methods" to investigate domain specific problems and derive scientific conclusions through testing of Hypotheses and relevant findings empirically.
PO5	**Usage of Modern Tools and Techniques:** Mastery in the academic enclave through skilled handling administering, assessing, validating and interpreting complex phenomena using advanced tools and techniques to create simple and sustainable solutions.
PO6	**Social Sciences & Society –** Promotes domain specific literacy to illuminate the significance of each discipline and its applicability for the well-being of Society.
PO7	**Environment and Sustainability:** Contemplate and Introspect prevailing environmental challenges and consequences. Further, channelize initiatives towards sustainability.
PO8	**Moral and Ethical Values:** Application of Professional Ethics, Humanitarian Values, Accountability and Social Responsibilities in emerging society towards attainment of harmony and co-existence.
PO9	**Individual and Teamwork:** Imbibe the qualities of Teamwork and function effectively as an emerging leader in the diversified and multidisciplinary areas.
PO10	**Communication:** Demonstrates Competency in comprehending and conceptualizing discipline specific concepts and ideas and communicates effectively through fluid communication within the professional and social setup.
PO11	**Economics and Project Management:** Understand the Economic Concept in the context of specific discipline and apply the same through initiating Planning, and Executing the Project Dynamics effectively towards successful Project Management.
PO12	**Lifelong Learning**: Identify and address their own educational needs in a changing world in ways sufficient to upgrade one's skills and competencies through constant self-evaluation and eternal learning.

OBJECTIVES: Psychology

1.) **Promote higher learning and research orientation among students, through effective establishment of the interface between the field of Psychology and its empirical nature.**

2.) **Establish Introspective approach through – Educational tours, Internship Programmes, Minor Projects ect; to gear-up the Learner to explore the dynamics of Applied Psychology.**

3.) **Kindle "Self – Enhancing and Innovative" skills among students through broader insights into the realm of Psychology.**

4.) **Inspire Students to foresee various promising Career prospects available in the field of Mental Health Sciences through the pursuit of Psychology.**

5.) **Endow a sense of 'Professional Integrity' in the learner through realizing the significance of Psychology in facilitating Mental Health services.**

List Of BOS Members in Psychology

Sl.No.	Category	Name		Designation	Address for Communication	E-mail and Mobile No.
1.	**HoD**	**Smt. Sujata. M**		**Asst. Professor & HoD**	**Dept. of Psychology SBRR Mahajana First Grade College, Mysore**	**Sujatam.fgc@mahajana.edu.in 9886191174**
2.	**Two Experts from Outside the parent University**	**1.) Dr Rekha**		**Associate Professor**	**Dept. of Psychology Govt. College for Women (Autonomous) Mandya.**	**rekhamsumesh@gmail.com 9986627024**
		2.) Dr Archana Bhatt K		**Associate Professor & HoD**	**UG & PG Dept. of Psychology Kateel Ashok Pai Memorial College – Shivamogga, Kuvempu University.**	**archana.kallahalla@gmail.com 9538298660**
3.	**Nominee by the Vice Chancellor**	**Dr. Mridula Singh**		**Associate Professor**	**Dept. of Psychology Maharajas College, Mysore.**	**mridulasingh15@gmail.com 9448312327**
4.	**One Person from Industry /Corporate Sector /Allied area**	**Dr. Lancy D'Souza**		**Professor & HoD,**	**Dept. of Psychology, Maharaja's College Mysore**	**lancyd@gmail.com**
6.	**Alumnus**	**Siyana Salim**		**P G Student M.Sc Clinical Psychology**	**Dept. of Clinical Psychology St. Agnes College Mangalore**	**ishasalim31@gmail.com 9071693910**

Course Structure (NEP 2020)

Discipline Specific Courses (DSC) & Open Elective (OE)

I Sem Course Code - 211165	II Sem Course Code - 211265

Course Type, Code and Name		Hours/ Week		Credits	Maximum Marks			Exam Duration	Total
					IA		Exam		
		L	T/P	L:T:P	C1	C2	C3		Marks
PSYCHOLOGY – I Sem									
DSC(1) - 211165 **DSC (1) -Lab**	**Foundations of Psychology- I**	4	0	4:0:2	20	20	60	2:30 Hours	150
	Psychology Practicals	0	4		10	15	25	3 Hours	
OE (1) 21OEPSY101 21OEPSY102	**Psychology of Health**	3	0	3:0:0	20	20	60	2:30 Hours	100
	Life Skills -I	3	0	3:0:0	20	20	60	2:30 Hours	100
PSYCHOLOGY – II Sem									
DSC(2) - 211265 **DSC(2) - Lab**	**Foundations of Psychology-II**	4	0	4:0:2	20	20	60	2:30 Hours	150
	Psychology Practicals	0	4		10	15	25	3 Hours	
OE (2) 21OEPSY201 21OEPSY202	**Youth, Gender & Identity**	3	0	3:0:0	20	20	60	2:30 Hours	100
	Life Skills -II	3	0	3:0:0	20	20	60	2:30 Hours	100

DSC (1) Syllabus for B.A PSYCHOLOGY (Basic and Honors)

Semester I

Course Code: 211165	Course Title: DSC(1)- Foundations of Psychology - I (Theory) DSC(1) Lab-Psychology (Practical)
Course Credits: 06 (4:0:2)	Hours of Teaching/Week: 04 (Theory) + 04 (Practical)
Total Contact Hours: 56 Hours (Theory) 56 Hours (Practical)	Formative Assessment Marks: 40 (Theory) 25 (Practical)
Exam Duration: 2:30 Hours (Theory) 3 Hours (Practical)	Semester End Examination Marks: 60 (Theory) 25 (Practical)

Course Outcomes (COs):

CO1 – Articulate the fundamentals of Psychology and infer the basic concepts comprehensively.
CO2 – Concretely relate and synthesize the "Biological basis of Behaviour".
CO3 – Define, Integrate, and determine the nature and nexus among various physical and cognitive processes.
CO4 – Analyze and contrast the inherent characteristics of Learning and its attribution to behaviour.
CO5 – Summarize and demonstrate the structure and significance of Memory in human functioning.

Course Content

Content	Hours
UNIT – 1 **GENESIS AND GOALS OF PSYCHOLOGY**	
- Psychology: History and Development of Psychology; Definition and Goals of Psychology- Understanding, Describing, Predicting and Control of Behaviour. - Key Perspectives: Psychodynamic, Behavioural, Humanistic, Biological and Cognitive. - Branches of Psychology - General, Bio–Physiological, Social, Child, Developmental, Abnormal and Cognitive Psychology. - Methods in Psychology: Observation, Experimental, Clinical and Survey/Questionnaire Methods.	**13 Hrs**
UNIT – 2 **BIOLOGY AND BEHAVIOUR**	
- Neuron: Structure and functions; Neural impulse; Synapse and Neurotransmitters - Nervous system: Structure and Functions of Central nervous system and Peripheral nervous system - Advanced Methods of studying brain functions: Various Scanning methods. - Endocrine system: Pituitary, Thyroid, Parathyroid, Adrenal and Gonads – Functions	**10 Hrs**

UNIT – 3	SENSATION, ATTENTION AND PERCEPTION	

• Sensation: Definition and Characteristics.
• Types of Senses and functions.
• Attention: Meaning and Phenomena (Span of Attention, Division of Attention, Fluctuation and distraction), Determinants of Attention.
 	
• Perception: Meaning and Characteristics, Gestalt - Laws of Perceptual Organization.
• Depth Perception: Meaning, Monocular and Binocular Cues, Perceptual Constancies – Size, Shape & Color.
• Errors in Perception -
  1) Illusion - Types - Horizontal-Vertical, Muller Lyer and Illusion of Movement.
  2) Hallucination
		12 Hrs

UNIT – 4	LEARNING	
• Introduction: Definition, Factors Influencing Learning: Motivation, Reinforcement and Association. • Types of Learning: Trial and Error Learning- Thorndike's Experiment and Laws; Classical Conditioning- Acquisition, Spontaneous Recovery, Generalization, Discrimination, Extinction and Higher Order Conditioning. • Operant Conditioning: Experiment - Reinforcement, Schedules of Reinforcement, Shaping and Chaining. • Cognitive Learning: Insightful (Kohler) and Observational (Bandura).		**11 Hrs**

UNIT – 5	MEMORY AND FORGETTING	
• Memory: Meaning, Basic Processes – Encoding, Storage and Retrieval. • Types of Memory: Sensory Memory, Short-Term Memory, Long-Term Memory, Working Memory, Semantic Memory, Autobiographical Memory and Flashbulb Memory. • Techniques to Improve Memory: Mnemonics, Chunking, SQ3R (Survey, Question, Read, Recite and Review) • Forgetting: Nature – Normal & Abnormal forgetting and Causes of Forgetting.		**10 Hrs**

References:

1. Robert Feldman (2011) Essential of *Understanding Psychology* 10th Edition, ISBN-13-9781259003059/ISBN–10–1259003051

2. Morgan, C. T., King, R. A., Weiss, J. R. and Schopler, J. (2012). (Latest Edition).*Introduction to Psychology.* Tata McGraw Hill Education Pvt. New Delhi

3. Nataraj, P. (latest edition): *Psychology for Beginners*. Mysore :Srinivas publication

4. Parameshwaran, E. G., & Beena, C. (2010): *An Invitation to Psychology*, Neelkamal Pvt. Hyderabad

5. Mangal S.K.(2000) General Psychology. New Delhi: Sterling Publishers Pvt.Ltd.

6. Shashi Jain (Latest edition). Introduction to Psychology. New Delhi: Kalyani Publishers.

7. Rajamanickam, M. (2008). Modern General Psychology. Vol 1 & 2. Concept Publisher. New Delhi.

Online / E-sources

1.) [Introduction to Psychology - Open Textbook Library (umn.edu)](#)
2.) [American Psychological Association (APA)](#)
3.) [Beginning Psychology (lardbucket.org)](#)
4.) [Psychology (d3bxy9euw4e147.cloudfront.net)](#)
5.) https://youtu.be/ysda8PHQnGY - Introduction to Psychology
6.) https://youtu.be/bl08fSne14U - Psychology As Science

(DSC) Practical

PRACTICALS DSC - 211165

Course duration: 14 weeks with 4 hours of lab work per week amounting to 2 credits.

PRACTICALS DSC - Foundations of Psychology - I

Any 6 of the following experiments

4 hours per week. Maximum Marks: 50

1. **Directed Observation on the accuracy of report**
2. **Color blindness**
3. **Localization of sound**
4. **Set on Attention**
5. **Bilateral transfer of training**
6. **Muller-Lyre Illusion**
7. **Meaning on retention**
8. **Retroactive Inhibition**

STATISTICS

- Grouping of Data: Tabulation and frequency distribution
- Measures of Central tendency: Mean and Median for Grouped and Ungrouped data

Course Articulation Matrix – 211165

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	2	1	3	3	3	-	2	2	3	-	2
CO 2	3	2	1	3	3	2	-	-	-	3	-	2
CO 3	3	3	1	3	3	2	-	-	2	3	-	1
CO 4	3	3	2	2	3	3	-	1	1	3	-	1
CO 5	3	2	1	2	3	3	-	1	1	3	-	1
Weighted Average	3	2.4	1.2	2.6	3	2.6	0	1.3	1.5	3	0	1.4

OE (1) Syllabus of Psychology

Semester I

Course Code: 21OEPSY101	**Course Title O.E (1): Psychology of Health & Wellbeing**
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week:** 03 Hour (Theory)
Total Contact Hours: 42 Hours (Theory)	**Formative Assessment Marks:** 40
Exam Duration: 2:30 Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO1 – Analyze and describe the spectrum of health & illness for better health management.
CO2 - Identify and introspect the impact of stressors and determine the coping strategies.
CO3 - Conceptualize and reflect upon the health protective and health compromising behaviors, further determine illness management.
CO4 – Synthesize and determine various strategies to Life enhancement for overall wellbeing.

Course Content

Content	Hours
UNIT – 1 **Introduction**	
Illness, Health and Wellbeing; Health continuum; Models of Health and Illness: Medical, Bio-psychosocial; Holistic Health.	**11 Hrs**
UNIT – 2 **Stress & Coping**	
Stress and Coping: Nature and Sources of Stress; Personal and Social Mediators of Stress; Effects of Stress on Physical and Mental Health; Coping and Stress management.	**11 Hrs**
UNIT – 3 **Health Management**	
Health Management: Health enhancing behaviours: Exercise, Nutrition, Meditation, Yoga; Health compromising behaviours - alcoholism, smoking, internet addiction; Illness Management – Prevention & Treatment.	**10 Hrs**
UNIT – 4 **Promoting Human Strengths and Life Enhancement**	
Promoting Human Strengths and Life Enhancement: Strength- Meaning and Realizing strength; Maximizing Unrealized Strength. Weakness – Meaning, Identifying & Overcoming – Practices of Mindfulness.	**10 Hrs**

References:

Carr. A. (2004) Positive Psychology: The science of happiness and human strength UK: Routledge.

DiMatteo, M.R &. Martin, L.R.(2002). Health Psychology. New Delhi: Pearson.

Farshaw, M 2DD3) Advanced PsychoIo9Y: Health Psychology. London:Hodder and Stoughton

Forshaw, M. (2003).Advanced Psychology: Health Psychology. London: Hodder and Stou9htan.

Hick.J.W. (2005).Fifty signs of Mental Health.A Guide to understanding mental health.Yale University Press.

Snyder, C R., & Lopez. S.J.(2007) Positive Psychology: The scientific and practical explorations of human strengths. Thousand Oaks, CA Sage.

Taylor. S.E. 2006).Health Psychology.6th Edition.Flew DelhI: Tata M

Online E-resources

1. **https://www.ahajournals.org/doi/10.1161/CIR.0000000000000947**

2. **https://iaap-journals.onlinelibrary.wiley.com/journal/17580854**

3. **BPCG-173 Psychology for Health and Wellbeing - https://egyankosh.ac.in/handle/123456789/73140**

4. **Health Psychology Promotes Wellness - https://www.apa.org/education-career/guide/subfields/health**

Course Articulation Matrix - 21OEPSY101

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	2	1	-	-	1	-	1	1	3	-	1
CO 2	3	3	1	-	-	2	1	-	1	3	-	2
CO 3	3	2	1	-	1	3	1	1	1	3	-	2
CO 4	3	2	1	-	1	3	1	1	1	3	-	2
Weighted Average	3	2.2	1	0	1	2.2	1	1	1	3	0	1.75

OE (1) Syllabus of Psychology (Except B.A Streams)

Semester I

Course Code: 21OEPSY102	**Course Title O.E (1) : Life Skills - I**
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week:** 03 Hour (Theory)
Total Contact Hours: 42 Hours (Theory)	**Formative Assessment Marks:** 40
Exam Duration: 2:30 Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO1 – Describe the basics and conceptual features of Life skills.
CO2- Comprehend the basic framework of Self-awareness and empathy understanding their association.
CO3 - Determine and classify the nature and relevance of Critical and Creative Thinking in Life Skills.
CO4 – Describe and analyze the dynamics of Decision making and Problem Solving.

Course Content

Content	Hours
UNIT – 1 **Overview of Life Skills**	
• Meaning and significance of life skills • Life skills identified by WHO: Self-awareness, Empathy, Critical thinking, Creative thinking, Decision making, problem solving, Effective communication, interpersonal relationship, coping with stress, coping with emotion • Use of Life skills in personal and professional life • Life Skills Training – Models-4 H, • Life Skills Education in the Indian Context.	**11 Hrs**
UNIT – 2 **Self-awareness and empathy**	
• Definition and need for self-awareness and empathy; • Self-esteem and self-concept • Human Values, tools and techniques of Self-awareness and empathy Activities: Johari window and SWOC analysis, Journaling, reflective questions, meditation, mindfulness, psychometric tests and feedback.	**11 Hrs**
UNIT – 3 **Critical and creative Thinking**	
• Definition and need for Creativity and Critical Thinking • Need for Creativity in the 21st century, Imagination, Intuition, Experience and Sources of Creativity	**10 Hrs**

- Lateral Thinking
- Critical thinking Vs Creative thinking, Convergent & Divergent Thinking.
- Activities: Fish Bowl, Debates, 9 dots puzzle, Circles of possibilities, Best out of waste, Socratic seminars, Group discussion, brain storming and lateral thinking exercises.

UNIT – 4	Decision Making and Problem Solving	
● Definition of decision making and problem solving ● Steps in problem solving: Problem Solving Techniques ● Analytical Thinking, Numeric, symbolic, and graphic reasoning. Scientific temperament and Logical thinking ● Activities: Six Thinking Hats, Mind Mapping, Forced Connections, A shrinking vessel, reverse pyramid.		**10 Hrs**

References:

- Barun K. Mitra, "Personality Development & Soft Skills", Oxford Publishers, Third impression, 2017.
- ICT Academy of Kerala, "Life Skills for Engineers", McGraw Hill Education (India) Private Ltd., 2016.
- Caruso, D. R. and Salovey P, "The Emotionally Intelligent Manager: How to Develop and Use the Four Key Emotional Skills of Leadership", John Wiley & Sons, 2004.
- Kalyana, "Soft Skill for Managers"; First Edition; Wiley Publishing Ltd, 2015.
- Larry James, "The First Book of Life Skills"; First Edition, Embassy Books, 2016.
- ShaliniVerma, "Development of Life Skills and Professional Practice"; First Edition; Sultan Chand (G/L) & Company, 2014.

Online E-resources

1. Basic Life Skills Curriculum – UNICEF https://www.unicef.org › azerbaijan › media › file

2. **Module 7 Life Skills – UNODC** - https://www.unodc.org › message › escap_peers_07

3. https://wachemo-elearning.net/courses/general-psychology/lessons/chapter-8introduction-to-life-skills

Course Articulation Matrix - 21OEPSY102

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	2	1	2	1	1	-	1	1	3	-	1
CO 2	3	3	-	3	1	1	1	-	2	3	-	1
CO 3	3	1	1	3	1	1	1	1	2	3	1	1
CO 4	3	1	1	3	1	1	1	1	1	3	1	1
Weighted Average	3	1.7	0.7	2.8	1	1	0.7	0.7	1.5	3	0.5	1

DSC (2) Syllabus for B.A Psychology (Basic and Honors)

Semester II

Course Code: 211265	Course Title: Foundations of Psychology -II
	DSC(2) (Theory)
	DSC(2) Psychology Lab (Practical)

Course Credits: 06 (4:0:2)	Hours of Teaching/Week: 04 (Theory) + 04 (Practical)

Total Contact Hours: 56 Hours (Theory)	Formative Assessment Marks: 40 (Theory)
56 Hours (Practical)	25 (Practical)

Exam Duration: 2:30 Hours (Theory)	Semester End Examination Marks: 60 (Theory)
3 Hours (Practical)	25 (Practical)

Course Outcomes (COs):

CO1 – Elucidate and analyze the construct of "Human Emotions"; and demonstrate the impact of Emotions on Behaviour.
CO2 – Describe the concept of Motivation and comprehend its relevance to human behavior.
CO3 – Demonstrate the structure of "Human Intelligence" and analyze its relevance to human life as an active cognitive process.
CO4 – Interpret Cognition, systematically analyze and comprehend the features of "Thinking-Reasoning".
CO5 – Conceptualize the dynamics of Human Personality and determine its significance to behaviour.

Course Content

Content	Hours
UNIT – 1 EMOTIONS	
- Definition, Elements of Emotions - physiological, behavioural, psychological and cognitive. - Classification of emotions- primary and secondary. - Theories of emotions- Physiological and Cognitive. - Emotional Intelligence- Meaning, definition, components. Application of emotional intelligence.	**12 Hrs**
UNIT – 2 MOTIVATION	
- Definition, Basic Concepts of Motivation - Instincts, needs, drives, incentives, Motivational cycle. - Approaches to the Study of Motivation: S – R approach (Behavioural), Cognitive and Humanistic. - Biological Motives: Hunger, thirst, sleep and sex. - Social Motives: Achievement, affiliation, approval.	**10 Hrs**

UNIT – 3	INTELLIGENCE	
- Definition of intelligence, Nature and characteristics of intelligence. - Types- Social, Emotional, Multiple, Crystallized and Fluid Intelligence. - Theories of Intelligence- Thurstone's, Spearman's, Guillford's and Gardener. - The concept of intelligence quotient. Assessment of intelligence- Tests of intelligence. - Artificial Intelligence.		**10 Hrs**

UNIT – 4	THINKING AND REASONING	
- Introduction to cognition – Definition of Thinking, Elements of Thinking. - Concept Formation: Importance and process of concept formation - Types of Thinking - Creative and critical thinking, Convergent & Divergent Thinking, Altruistic and Realistic Thinking. - Problem Solving: Meaning, Process of Problem Solving and obstacles - Reasoning – Inductive and Deductive, decision making.		**12 Hrs**

UNIT – 5	PERSONALITY	
- Definition & Determinants of Personality. - Theories of personality- Type and Trait, Psychodynamic, Behavioural and Humanistic. - Assessment of personality- Rating scales, Questionnaires and Projective techniques.		**12 Hrs**

Reference:

1.) Baron, R. A. (2014).Psychology. (5thed.). Delhi: PHI Learning Pvt. Ltd.

2.) Feldman, R. S. (2018). Understanding Psychology (14thed.). New York: McGraw Hill Hergenhahn, B. R., & Henley, T. (2013). An Introduction to the history of psychology.Cengage Learning.

3.) Hilgard, E. R., Atkinson, R. C. & Atkinson, R. L. (2015).Introduction to psychology. (16th ed.). Boston: Cengage Learning.

4.) Malim, T. (2017). Introductory Psychology.Macmillan International Higher Education. Morgan, C. T.,

5.) King, R. A., Weisz, J. R., &Schopler, J. (2001).Introduction to psychology. (7th ed.) Chennai: McGraw-Hill Education (India) Pvt. L

Online / E-sources

1.) Introduction to Psychology - Open Textbook Library (umn.edu)

2.) American Psychological Association (APA)

3.) Beginning Psychology (lardbucket.org)

4.) Psychology (d3bxy9euw4e147.cloudfront.net)

5.) https://youtu.be/RGdK67Z0A00 - The Science of Personality

(DSE) Practical
PRACTICALS DSE - 211265

Course duration: 14 weeks with 4 hours of lab work per week amounting to 2 credits.
PRACTICALS DSC - Foundations of Psychology – II

Any 6 of the following experiments

(Selecting at least 1 from each of the given clusters and the 6th Experiment to be chosen from anyone of the given clusters)

4 hours per week.   **Maximum Marks: 50**

1.) **Emotions:**
   a. Emotional intelligence scale/ questionnaire
   b. Oxford happiness scale
2.) **Motivation**
   a. Achievement motivation
   b. Guidance need inventory
3.) **Intelligence**
   a. Standard progressive matrices
   b. SFB (Seguin Form Board)
4.) **Thinking and reasoning**
   a. Stroop effect
   b. Problem solving ability test based on Tower of London test
5.) **Personality:**
   a. Eyescenk's personality inventory
   b. NEO Personality Inventory

Statistics: Measures of Variance (Grouped and Ungrouped)

   ● Standard Deviation

Course Articulation Matrix - 211265

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	2	1	2	3	3	1	2	2	3	-	2
CO 2	3	2	1	2	3	2	-	-	-	3	-	2
CO 3	3	3	1	2	3	2	1	2	2	3	-	2
CO 4	3	3	2	2	3	3	1	1	1	3	-	2
CO 5	3	2	1	2	3	3	-	1	1	3	-	2
Weighted Average	3	2.4	1.2	2	3	2.6	1	1.5	1.5	3	0	2

OE (2) Syllabus of Psychology (Except B.A Streams)

Semester II

Course Code: 21OEPSY201	**Course Title O.E (2): Youth, Gender & Identity**
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week:** 03 Hour (Theory)
Total Contact Hours: 42 Hours (Theory)	**Formative Assessment Marks:** 40
Exam Duration: 2:30 Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO1 – Conceptualize the concept of Youth and determine the dynamics involved in Identity Formation.
CO2 – Elucidate and describe the attributes, conflicts and challenges to identity formation in youth.
CO3 – Demonstrate and analyze the complexities associated with Youth, Gender and Identity Crisis.
CO4 – Describe and critique the laws associated with Youth.

Course Content

Content	Hours
UNIT – 1 **Introduction**	
a. Concepts of Youth: Transition to Adulthood, Extended Youth in the Indian context b. Concepts of Gender: Sex, Gender Identity, Sexual Orientation and Issues c. Gender and Identity - Gender Roles, Gender Role Attitudes, Gender Stereotypes, Gender discrimination d. Concepts of Identity: Multiple identities.	**11 Hrs**
UNIT – 2 **Youth and Identity**	
a. Family: Parent-youth conflict, sibling relationships, intergenerational gap b. Peer group identity: Friendships and Romantic relationships c. Workplace identity and relationships d. Youth culture: Influence of globalization on Youth identity and Identity crisis	**11 Hrs**
UNIT – 3 **Issues related to Youth, Gender and Identity**	
a. Youth, Gender and violence b. Enhancing work-life balance c. Changing roles and women empowerment d. Encouraging non-gender stereotyped attitudes in youth.	**10 Hrs**

UNIT – 4	Law and Youth

	10 Hrs
a. Juvenile Justice act b. LGBT rights in India c. UNICEF programs for youth	

References:

Carr. A. (2004) Positive Psychology: The science of happiness and human strength UK: Routledge.

DiMatteo, M.R &. Martin, L.R.(2002). Health Psychology. New Delhi: Pearson.

Farshaw, M 2DD3) Advanced PsychoIo9Y: Health Psychology. London:Hodder and Stoughton

Forshaw, M. (2003).Advanced Psychology: Health Psychology. London: Hodder and Stou9htan.

Hick.J.W. (2005).Fifty signs of Mental Health.A Guide to understanding mental health.Yale University Press.

Snyder, C R., & Lopez. S.J.(2007) Positive Psychology: The scientific and practical explorations of human strengths. Thousand Oaks, CA Sage.

Taylor. S.E. 2006).Health Psychology.6th Edition.Flew DelhI: Tata M

Online E-resources

  1. Youth Psychology :Concept of Youth and Youth across cultures-https://www.docsity.com › youth-psychology-concept

  2. Psychology of Youth - https://www.idymop.org/post/psychology-of-youth

  3. Positive youth Development & Wellbeing: Gender Differences - https://www.frontiersin.org/articles/10.3389/fpsyg.2021.641647/full

Course Articulation Matrix - 21OEPSY201

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	2	1	-	-	1	-	1	1	3	-	1
CO 2	3	3	-	-	-	1	1	-	1	3	-	1
CO 3	3	1	1	-	1	1	1	1	1	3	-	1
CO 4	3	1	1	-	1	1	1	1	1	3	-	1
Weighted Average	3	1.75	1	0	1	1	1	1	1	3	0	1

OE (2) Syllabus of Psychology (Except B.A Streams)

Semester II

Course Code: 21OEPSY202	**Course Title O.E (2): Life Skills - II**
Course Credits: 03 (3:0:0)	**Hours of Teaching/Week:** 03 Hour (Theory)
Total Contact Hours: 42 Hours (Theory)	**Formative Assessment Marks:** 40
Exam Duration: 2:30 Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO1 – Identify the nature of Effective Communication and comprehend the skills necessary for effective communication.
CO2 – Elucidate the dynamics involved in Interpersonal Relationships and interpret the techniques of enhancing Interpersonal skills.
CO3 – Demonstrate effective Stress management and analyze stress coping skills.
CO4 – Synthesize the dynamics of a Group or Team, comprehending the techniques to resolve conflict and enhance group performance.

Course Content

Content	Hours
UNIT – 1 **Effective Communication**	
- Effective communication and Presentation skills. - Verbal and nonverbal communication, types of barriers - Writing Skills: Activities: Letter Writing, Job Application, Resume writing. - Listening Skills: Activities : Listen and Draw , Blindfold walk - Activities : Interview Skills, Group Discussion, Presentation Skills, stand up for fillers, Just A Minute	**11 Hrs**
UNIT – 2 **Interpersonal Relationship**	
- Meaning and benefits of Interpersonal skills - Components of Interpersonal skills, - Techniques of improving Interpersonal skills, - Activities: Role play, Ice breakers, circle time discussions, group discussion, two truths and a lie and SWOC analysis of peer	**11 Hrs**

UNIT – 3	Coping with Stress and emotions	
● Stress Management: Stress, reasons and effects ● Identifying stress, the four A's of stress management ● Identifying and managing emotions, harmful ways of dealing with emotions ● Activities : Stress Dairies, PATH method and relaxation techniques, Zen / Mandala drawing, creating Joy Collage, Gratitude Journaling, Eye Contact games		**10 Hrs**
UNIT – 4	**Group and Team Dynamics**	
● Introduction to Groups: Composition, formation, expectations, Problem Solving, Consensus, Dynamics techniques, ● Group vs Team, Team Dynamics, ● Managing team performance and managing conflicts ● Activities : Chinese Puzzle, Use what you have game ,Group timeline, Do the Math : Cooperation and competition in groups, Barter Puzzle.		**10 Hrs**

References:

- Barun K. Mitra, "Personality Development & Soft Skills", Oxford Publishers, Third impression, 2017.
- ICT Academy of Kerala, "Life Skills for Engineers", McGraw Hill Education (India) Private Ltd., 2016.
- Caruso, D. R. and Salovey P, "The Emotionally Intelligent Manager: How to Develop and Use the Four Key Emotional Skills of Leadership", John Wiley & Sons, 2004.
- Kalyana, "Soft Skill for Managers"; First Edition; Wiley Publishing Ltd, 2015.
- Larry James, "The First Book of Life Skills"; First Edition, Embassy Books, 2016.
- ShaliniVerma, "Development of Life Skills and Professional Practice"; First Edition; Sultan Chand (G/L) & Company, 2014.

Online E-resources

1. https://www.tutorialspoint.com/effective_communication/effective_communication_tutorial.pdf1.
2 .https://www.tutorialspoint.com/interpersonal_skills/interpersonal_skills_tutorial.pdf

3. **Module 7 Life Skills – UNODC** - https://www.unodc.org › message › escap_peers_07

Course Articulation Matrix - 21OEPSY202

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	2	1	-	-	1	-	1	1	3	-	1
CO 2	3	3	-	-	-	1	1	-	1	3	-	1
CO 3	3	1	1	-	1	1	1	1	1	3	-	1
CO 4	3	1	1	-	1	1	1	1	1	3	-	1
Weighted Average	**3**	**1.75**	**1**	**0**	**1**	**1**	**1**	**1**	**1**	**3**	**0**	**1**

Continuous Formative Evaluation/Internal Assessment (DSC & OE)

Total marks for each course shall be based on continuous assessments and semester end examinations. The pattern is 40:60 for IA and Semester End Theory Examinations respectively and 50:50 for IA and SemesterEnd Practical Examinations respectively.

	THEORY	PRACTICAL
Total Marks	100 Marks	50 Marks
Continuous Assessment – 1 (C1)	20 Marks	10 Marks
Continuous Assessment – 2 (C2)	20 Marks	15 Marks
Semester End Examination (C3)	60 Marks	25 Marks

Evaluation Process of IA Marks shall be as follows:

a) The first component (C1) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, project work etc. This assessment and score process should be completed after completing 50% of syllabus of the course and within 45 working days of semester program.

b) The second component (C2) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, internship/industrial practicum/project work, quiz etc. This assessment andscore process should be based on completion of remaining 50% of syllabus of the course of the semester.

c) During the 17th – 19th week of the semester, a semester end examination shall be conducted by the college for each course. This forms the third and final component of assessment (C3) and the maximum marks forthe final component will be 60%.

d) In case of a student who has failed to attend the C1 or C2 on a scheduled date, it shall be deemed that the student has dropped the test. However, in case of a student who could not take the test on scheduled date due to genuine reasons, such a candidate may appeal to the Program Coordinator/Principal. The Program Coordinator/Principal in consultation with the concerned teacher shall decide about the genuineness of the case and decide to conduct special test to such candidate on the date fixed by the concerned teacher, but before commencement of the concerned semester end examinations.

e) For assignments, tests, case study analysis etc., of C1 and C2, the students should bring their own answer scripts (A4 size), graph sheets etc., required for such tests/assignments and these

be sealed/signed by the concerned department at the time of conducting tests/assignment/project work etc.

f) The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) of a courseshall be as under:

	C1 Marks	C2 Marks	Total Marks
Session Test	20	-	20
Seminar/Presentation/Assignment/Activity/Case Study/Field Work/Project Work/Quiz etc.	-	20	20
Total	20	20	40

- For practical course of full credits, seminar shall not be compulsory. In its place, marks shall be awarded for Practical Record Maintenance, the marks are 25 (10 + 15) and 25. Evaluated for a total of 50 Marks.

- Conduct of Test, Seminar, Case study/Assignment etc., can be either in C1 or in C2 component as decidedby the college and concerned department/teacher.

- The teachers concerned shall conduct test/seminar/case study/Assignment etc., the students should be informed aboutthe modalities well in advance. The evaluated courses assignments during component I (C1) and component II (C2) of assessment are immediately provided to the candidates after obtaining acknowledgement in the register by the concerned teacher(s) and maintained by the Department. Before commencement of the semester end examination, the evaluated test, assignment etc., of C1 and C2 shall beobtained back to maintain them till the announcement of the results of the examination of the concerned semester.

g) The marks of the internal assessment shall be published on the notice board of the department/college for information of the students.

h) The internal assessment marks shall be communicated to the CoE (Controller of Examination) at least 10 days before the commencement of the semester end examinations and the CoE shall have access to the records of such periodical assessments.

i) There shall be no minimum in respect of internal assessment marks.

j) Internal assessment marks may be recorded separately. A candidate, who has failed or rejected the result, shall retain the internal assessment marks.

PRACTICAL COMPONENT

Scheme of Valuation for I & II Sem: Practical Experimentation

C1 and C2 (Practical) are internal tests to be conducted during 8th and 16th weeks of the semester respectively. C3 (Practical Examination) is conducted during the end of the semester for the duration of 3 hours. The students are assessed and evaluated by the External and Internal Examiners - on various skills associated with Psychology Practical – Administration, Procedure, Instructions, Analysis and Interpretation of results of the Subjects performance in the Experiment conducted. The Practical Component is valuated for 50 Marks (during each of the Semesters respectively).

The C1(Test) and C2 (Assignment – Case Study) components are - IA assessment. During the C1 and C2 elements the student is evaluated for 20 marks (collectively) as per the following scheme:
a.) C1 – Test on Experiments - 10 marks (On first Half of the Practical Portions)
b.) C2 – Test on Experiments / Assignment/Case Study/Statistics - 15 marks (On the second Half of Practical Syllabus + Record)

Though the C1 and C2 components are evaluated for 20 marks each for the ease of calculation, however the total marks scored by the student are then normalized to 10 under each component, (C1 and C2 Collectively – 20 + 5 Marks for Practical Record).

Record - 5 Marks; the Practical record has to be evaluated on 5 marks (IA) and then certified by the Head of the Department.

• The student is evaluated for 25 marks during C3 Examination as per the following scheme:

Heading	Marks
Experiment	5
Conduction	5
Group Discussion	5
Viva Voce	5
Statistics	5
TOTAL	**25**

General Pattern on Psychology PRACTICAL Question Paper (NEP-2020)

Term End Examination for Discipline Specific Paper

Scheme of Valuation for I & II Sem: Practical Experimentation

Total marks = 50		
Internal assessment =25		
Content		Marks
Test C1		10
C2 Test/Assignment (Case Study/Reports/Seminar Presentations; Statistics etc) + Practical Record	10 05	Total 15
Total IA		**25**
Practical examination =25		
Content		Marks
Writing Plan and procedure (any one)		05
Conduction / administration (any one)		05
Discussion of results (any one)		05
Statistics		05
Viva voce		05
Total Practical Examination		**25**

Practical Exam Duration & Ordinance

- **The Exam duration for I.A Practicals (Test C1 component) is for 1 Hr and C3 the main Practical Examination is for 3 Hrs.**

- **The student is expected to reach the Examination venue 30 minutes before the schedule.**

- **If the student is delayed beyond 30 min of the given schedule of Practical Examination; then he/she is not entitled or allowed to write the Practical examination for that Semester and will be considered as absent.**

 *** **Practical Record** - 5 Marks; Record submission is compulsory prior to the scheduled Examination date failing which the student is considered as not eligible to take up the Practical Examination. The student has to compulsorily submit the written Practical Record during C3 - Final Practical Examination. While, the student is considered as eligible for the   C3 component of Psychology Practical Examination, only if the Practical record has been submitted by the student to be evaluated on 5 marks (IA) and then certified by the Head of the Department. In case of an incomplete record the Department has every authority to either consider or penalize the student by deducting the marks for their negligence and lack of involvement.

DSC - Question Paper Pattern (Theory – I & II Sem)

PSYCHOLOGY B.A PROGRAMME

B.A PSYCHOLOGY - DSC (For I & II Semesters)

Time: 2:30 Hours   **Max. Marks: 60**

Part-A

I. Answer any five of the following questions.   **5x2=10**

  1.)……………………………………………………………………
  2.)……………………………………………………………………
  3.)……………………………………………………………………
  4.)……………………………………………………………………
  5.)……………………………………………………………………
  6.)……………………………………………………………………
  7.)……………………………………………………………………

Part-B

II. Answer any Four of the following questions.   **4x5=20**

  8.)………………………………………………………………..
  9.)………………………………………………………………..
 10.)…………………………………………………………………
 11.)………………………………………………………………….
12.)…………………………………………………………………
13.)…………………………………………………………………
14.)…………………………………………………………………

Part-C

III. Answer any Four of the following questions.   **3x10=30**

15.)…………………………………………………………………
16.)…………………………………………………………………
17.)…………………………………………………………………
18.)…………………………………………………………………
19.)…………………………………………………………………
20.)…………………………………………………………………

O.E Psychology - Question Paper Pattern (Theory I & II Sem)

PSYCHOLOGY B.A PROGRAMME

B.A PSYCHOLOGY – O.E (For I & II Semesters)

Time: 2:30 Hours   **Max. Marks: 60**

Part-A

I. Answer any five of the following questions.   **5x2=10**

    1.)…………………………………………………………………
    2.)…………………………………………………………………
    3.)…………………………………………………………………
    4.)…………………………………………………………………
    5.)…………………………………………………………………
    6.)…………………………………………………………………
    7.)…………………………………………………………………

Part-B

II. Answer any Four of the following questions.   **4x5=20**

    8.)………………………………………………………………..
    9.)………………………………………………………………..
   10.)…………………………………………………………………
   11.)………………………………………………………………….
   12.)…………………………………………………………………
   13.)…………………………………………………………………
   14.)…………………………………………………………………

Part-C

III. Answer any Four of the following questions.   **3x10=30**

   15.)…………………………………………………………………
   16.)…………………………………………………………………
   17.)…………………………………………………………………
   18.)…………………………………………………………………
   19.)…………………………………………………………………
   20.)…………………………………………………………………

Approved by the Board of Studies in Psychology (2022-2023) and forwarded to the Academic Council and the Governing Council for further reference and consent.

(Asst. Prof. Sujata. M)
12/9/2022
Chairperson
BOS/BOE in Psychology
SBRR Mahajana First Grade College
(Autonomous)
Jayalakshmipuram, Mysuru-570 012

(Dr. Mridula Singh)

Vice Chansellor Nominee, University of Mysore.
Dept. of Psychology
Maharaja's College
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(Dr. Lancy D'Souza)

Dr. Lancy D'Souza, Ph.D.
Head
Department of Psychology
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(Dr. Archana Bhatt K)

Department of Psychology
Kateel Ashok Pai Memorial College
Shivamogga -577 201

(Dr.Rekha)

(Siyana Salim)

(ABSENT)

DEPARTMENT OF SANSKRIT

Motto

संस्कृतं संस्कृतेर्मूलम्

Vision

As Sanskrit is the origin for our culture, making the students good
Citizens by teaching that language.

Mission

- By fulfilling the needs to become good citizens.

- By creating awareness of Puranas and Shastras in the students.

- By giving illustrations of Upanishads, Ramayana, Mahabharatha, Bhagavadgita etc., during teaching and inculcating Moral Values in them.

Program Outcome (PO) Attributes

PO 1: Domain Knowledge

PO 2: Problem Analysis

PO 3: Design and Development of Solutions

PO 4: Investigation & Research

PO 5: Use of Modern Techniques/Tools

PO 6: Impact of Science on Society

PO 7: Environment and Sustainability

PO 8: Moral and Ethical Values

PO 9: Individual and Team Work with Time Management

PO 10: Communication

PO 11: Project Management and Finance

PO 12: Life-long Learning

Objectives: SANSKRIT LANGUAGE

- This course will help the students develop a fair idea of the works of great Sanskrit poets.

- They will be able to appreciate the styles and thoughts of individual poets focusing on the poetical, artistic, cultural and historical aspects of their works.

- This course will enhance competence in chaste classical Sanskrit and give them skills in translation and interpretation of poetic works.

- Students will be able to write Devnagari Scripts

- The course(subject) will enable students to familiarize themselves with some leading classical prose works and the individual literary styles of their authors.

- After the completion of this course the learner will be exposed to the socio-cultural conditions of the Indian society as reflected in the prescribed texts.

- They will acquire skills in advanced Sanskrit communication.

List of BoS Members 2021-22

1	HoD	Dr. Shrinivas	Assistant Professor	Mahajana First Grade College	**shrinivas.fgc @mahajana.edu.in** **9964383565**
2	Nominee by the Vice Chancellor	Dr .Narayana Bhatta K	Professor & HOD	DoS In Sanskrit, Manasagangotri , Mysore.	**dr.k.narayanabhatta @gmail.com** **9449592581**
3	Two Experts from Outside the University	Dr. M Rangaswamy	Assistant Professor DOS in Sanskrit	Government Autonomous Sahyadri College Shivamogga 577203	**rangasscs1969 @gmail.com** **9535016974**
		Dr.Kumarasubrahmanya Bhat	Associate Professor & HOD	DOS In Sanskrit, University College Hampanakatta Manglore 575001	**ksbamai@gmail.com** **9448869289**
4	Alumni	Shree Sumukha Pranesh	Wealth Manager	Branch Manager ICICI Securities C 201, A N Comforts, Siddappa Layout Bangalore 61	**sumukhapranesh95 @gmail.com** **8762380685**

Course Structure (NEP)

AECC (Sanskrit)

I Year

Course Type, Code and Name		Hours/ Week		Credits	Maximum Marks			Exam Duration	Total
					IA		Exam		
		L	T/P	L:T:P	C1	C2	C3		Marks
Sanskrit – I Sem									
AECC(1)	**Sanskrit Poetry, Grammar and Comprehension** **BA/BSc/BCA** – 21SAN109 **BCom/BBA (All)** – 21SAN110	**2**	**2**	**2:1:0**	**20**	**20**	**60**	**2½ Hours**	**100**
Sanskrit – II Sem									
AECC(2)	**Sanskrit Prose, Grammar and Translation** **BA/BSc/BCA** – 21SAN209 **BCom/BBA (All)** – 21SAN210	**2**	**2**	**2:1:0**	**20**	**20**	**60**	**2½ Hours**	**100**

AECC (1) Syllabus for BA/BSc/BCA SANSKRIT

Semester I

Course Code: BA/BSc/BCA – 21SAN109	**Course Type & Title:** AECC(1) Sanskrit Poetry, Grammar and Comprehension
Course Credits (L:T:P): 3 (2:1:0)	**No. of Teaching Hours/Week:** 02 Hours (Theory) 02 Hours (Tutorials)
Total Contact Hours: 28 Hours (Theory) 28 Hours (Tutorials)	**Formative Assessment Marks:** 40
Exam Duration: 2½ Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO1: Appreciate the Development of Sanskrit poetry Literature .

CO2: Qualities of Rama for Personality Development .

CO3: Character of Rama special features of Rama katha as Described in the Balakanda of Valmiki Ramayana.

CO4: Vocabulary building is helpful in Sanskrit sentences. Karakas Role in Sanskrit sentences.

Course Content:

Content	Hours
UNIT – 1	
A Short History of Sanskrit Literature – Written By T. K. Ramachandra Aiyar (Page 1-98)	**14**
UNIT – 2	
Selected shlokas from Valmiki Ramayana – Balakanda – Sarga 1 – 1 to 30 shloka	**14**
UNIT – 3	
Valmiki Ramayana – Balakanda – Sarga 1 – 31 to 60 shloka	**14**
UNIT – 4	
□Vocabulary building - Samskrita Vyavahara Sahasri (page1-18) □Karaka prakarana – Samskrita Gadya Padya Vallari – (Page 201-204) □Comprehension - Shevadhi-2 (page 133)	**14**

Text Book: Valmiki Ramayana – Balakanda – Sarga 1(1 to 60 shloka)

Recommended Books

1. A Short History of Sanskrit Literature – Written By T. K. Ramachandra Aiyar
Published By R.S.VADHYAR&SONS, Book Sellers &Publishers KALPATHI:PALGHAT -678003,
First Edition 1977
2. Srimad Ramayana – Valmiki.
3. Samskrita Vyavahara Sahasri – Samskrita Bharati, (Delhi-Bengalur) Page 1-18.
4. Samskrita Gadya Padya Vallari – (Page 201-204), Government of Karnataka,
Karnataka Textbook Society (R) Bengaluru. RPT -2012-13.
5. Shevadhi-2 – Government of Karnataka, Bengaluru. RPT-2019. Page 133.

Digital Resources:

www.archieve.org
https://www.wikipedia.org/

Course Articulation Matrix –21SAN109

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	2	1	1	1	2	1	3	2	2	1	2
CO 2	2	2	1	1	1	2	1	3	2	2	1	2
CO 3	2	2	1	1	1	2	1	3	2	2	1	2
CO 4	2	2	1	1	1	1	1	-	1	2	1	2
Weighted Average	2	2	1	1	1	1.75	1	2.22	1.25	2	1	2

AECC (2) Syllabus for BA/BSc/BCA SANSKRIT

Semester II

Course Code: BA/BSc/BCA - 21SAN209	**Course Type & Title:** AECC(2) Sanskrit Prose, Grammar and Translation
Course Credits (L:T:P): 3 (2:1:0)	**No. of Teaching Hours/Week:** 02 Hours (Theory) 02 Hours (Tutorials)
Total Contact Hours: 28 Hours (Theory) 28 Hours (Tutorials)	**Formative Assessment Marks:** 40
Exam Duration: 2½ Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO1: Know the origin and development of Sanskrit Prose literature.

CO2: Know the Gist and message of Adi Parva

CO3: Know about content and and message of Sabha Parva.   .

CO4: Apply the laws of sandhi (euphonic combinations) in a Sanskrit passage. Gender place an Important Role in the Formation of sentences.

Course Content:

Content	Hours
UNIT – 1	
Introduction to Sanskrit Gadya Literature - Samskrita Bhashashastra Mattu Sahitya Charitre – Dr K Krishnamurthy, Vidwan Ranganatha sharma and Vidwan H.K.Siddagangaiah. (page 591-638)	**14**
UNIT – 2	
Bharata Sangraha – By Lakshmana Suri – Adi Parva	**14**
UNIT – 3	
Bharata Sangraha – By Lakshmana Suri – Sabha Parva.	**14**
UNIT-4	
☐Identifying Namapadas – Samskrit Shabdachandrika (page 1 to 12) ☐Identifying Sandhi – "Sandhihi" – G.Mahabaleshwara Bhat (Page 1-31) ☐Translation from Sanskrit to Kannada/English (Unseen Sentences)	**14**

Text Book:

Bharata Sangraha – By Lakshmana Suri – Adi parva and Sabha Parva.

Recommended Books

1. Bharata Sangraha - Lakshmanasuri.

2. Samskrit Shabdachandrika (page 1 to 12) – Vidwan N.Ranganatha Sharma,

Vidyabharati Grantha mala -3, Sringeri. 1995.

3. "Sandhihi" – G.Mahabaleshwara Bhat (Page 1-31) Samskrita Bharati,

Bengaluru. RPT-2017.

Digital Resources:

www.archieve.org

https://www.wikipedia.org/

Course Articulation Matrix – 21SAN209

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	2	1	1	1	2	1	3	2	2	1	2
CO 2	2	2	1	1	1	2	1	3	2	2	1	2
CO 3	2	2	1	1	1	2	1	3	2	2	1	2
CO 4	2	2	1	1	1	1	1	-	1	2	1	2
Weighted Average	2	2	1	1	1	1.75	1	2.22	1.25	2	1	2

AECC (1) Syllabus for B.Com/BBA/BBA(H&H) BBA (Avi&In.Tour) SANSKRIT

Semester I

Course Code: BCom/BBA (All) – 21SAN110	Course Title: AECC(1) Sanskrit Poetry, Grammar and Comprehension
Course Credits (L:T:P): 3 (2:1:0)	No. of Teaching Hours/Week: 02 Hours (Theory) 02 Hours (Tutorials)
Total Contact Hours: 28 Hours (Theory) 28 Hours (Tutorials)	Formative Assessment Marks: 40
Exam Duration: 2½ Hours	Semester End Examination Marks: 60

Course Outcomes (COs):

CO1: Appreciate the Development of Sanskrit poetry Literature .

CO2: Glimpses of the Karmayoga — The lesson incorporated in the Bhagavad Gita. Needless to say it is one of the most comprehensive tests of all literature that gives mankind the knowledge of high moral lesson and helps them find out the right path as Arjuna got it.

CO3: Importance of Karmayoga in Life as Described in Bhagavadgeeta

CO4: Vocabulary building is helpful in Sanskrit sentences. Karakas Role in Sanskrit sentences.

Course Content:

Content	Hours
UNIT – 1	
A Short History of Sanskrit Literature – Written By T. K. Ramachandra Aiyar (Page 1-98)	**14**
UNIT – 2	
Selected portions from Bhagawad Gita Chapter 3 (1-20 Shlokas)	**14**
UNIT – 3	
Bhagawad Gita Chapter 3 (21-43 Shlokas)	**14**
UNIT – 4	
☐Vocabulary building - Samskrita Vyavahara Sahasri (page1-18) ☐Karaka prakarana – Samskrita Gadya Padya Vallari – (Page 201-204) ☐Comprehension - Shevadhi-2 (page 133)	**14**

Text Book:

Bhagawad Gita Chapter 3

Recommended Books

1. A Short History of Sanskrit Literature – Written By T. K. Ramachandra Aiyar
Published By R.S.VADHYAR&SONS, Book Sellers &Publishers KALPATHI:PALGHAT -678003,
First Edition 1977
 2. Srimad Bhagawadgita – Vyasa.
3. Samskrita Vyavahara Sahasri – Samskrita Bharati, (Delhi-Bengaluru) Page 1-18.
4. Samskrita Gadya Padya Vallari – (Page 201-204), Government of Karnataka,
Karnataka Textbook Society (R) Bengaluru. RPT -2012-13.
5. Shevadhi-2 – (Page 133) Government of Karanataka, Bengaluru. RPT-2019.

Digital Resources:
www.archieve.org
https://www.wikipedia.org/

Course Articulation Matrix – 21SAN110

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	3	1	1	1	2	1	3	2	2	1	2
CO 2	2	3	1	1	1	2	1	3	2	2	1	2
CO 3	2	3	1	1	1	2	1	3	2	2	1	2
CO 4	2	-	1	1	1	1	1	-	1	2	1	2
Weighted Average	2	2.2	1	1	1	1.75	1	2.22	1.25	2	1	2

AECC (2) Syllabus for B.Com/BBA/BBA(H&H) BBA (Avi&In.Tour) SANSKRIT

Semester II

Course Code: BCom/BBA (All)– 21SAN210	Course Type & Title: AECC(2) **Sanskrit Prose, Grammar and Translation**
Course Credits (L:T:P): 3 (2:1:0)	**No. of Teaching Hours/Week:** 02 Hours (Theory) 02 Hours (Tutorials)
Total Contact Hours: 28 Hours (Theory) 28 Hours (Tutorials)	**Formative Assessment Marks:** 40
Exam Duration: 2½ Hours	**Semester End Examination Marks:** 60

Course Outcomes (COs):

CO1: Introduction and specialties of Sanskrit Prose Literature .

CO2: Know the Gist and message of Udyogaparva .

CO3: Know about content and and message of Bheeshmaparva .

CO4: Apply the laws of sandhi (euphonic combinations) in a Sanskrit passage. Gender place an Important Role in the Formation of sentences .

Course Content:

Content	Hours
UNIT – 1	
Introduction to Sanskrit Gadya Literature - Samskrita Bhashashastra Mattu Sahitya Charitre – Dr K Krishnamurthy, Vidwan Ranganatha sharma and Vidwan H.K.Siddagangaiah. (page 591-638)	**14**
UNIT – 2	
Bharata Sangraha – By Lakshmana Suri – Udyoga parva.	**14**
UNIT – 3	
Bharata Sangraha – By Lakshmana Suri – Bhishma parva.	**14**
UNIT – 4	
☐Identifying Namapadas – Samskrit Shabdachandrika (page 1 to 12) ☐Identifying Sandhi – "Sandhihi" – G.Mahabaleshwara Bhat (Page 1-31) ☐Translation from Sanskrit to Kannada/English (Unseen Sentences)	**14**

Text Book:

Bharata Sangraha – By Lakshmana Suri – Udyoga parva and Bhishma parva

Recommended Books

- 1. Bharata Sangraha - Lakshmanasuri.
- 2. Samskrit Shabdachandrika (page 1 to 12) – Vidwan N.Ranganatha Sharma,
- Vidyabharati Grantha mala -3, Sringeri. 1995.
- 3. "Sandhihi" – G.Mahabaleshwara Bhat (Page 1-31) Samskrita Bharati,
- Bengaluru. RPT-2017.

Digital Resources:

www.archieve.org

https://www.wikipedia.org/

Course Articulation Matrix – 21SAN210

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	2	1	1	1	2	1	3	2	2	1	2
CO 2	2	2	1	1	1	2	1	3	2	2	1	2
CO 3	2	2	1	1	1	2	1	3	2	2	1	2
CO 4	1	2	1	1	1	1	1	-	1	2	1	2
Weighted Average	1.75	2	1	1	1	1.75	1	2.22	1.25	2	1	2

Continuous Formative Evaluation/Internal Assessment (AECC)

Total marks for each course shall be based on continuous assessments and semester end examinations. The pattern is 40:60 for IA and Semester End Theory Examinations respectively and 50:50 for IA and Semester End Practical Examinations respectively.

	THEORY
TOTAL MARKS	100
Continuous Assessment – 1 (C1)	20
Continuous Assessment – 2 (C2)	20
Semester End Examination (C3)	60

Evaluation Process of IA Marks shall be as follows:

a) The first component (C1) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, project work etc. This assessment and score process should be completed after completing 50% of syllabus of the course and within 45 working days of semester program.

b) The second component (C2) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, internship/industrial practicum/project work, quiz etc. This assessment and score process should be based on completion of remaining 50% of syllabus of the course of the semester.

c) During the 17th – 19th week of the semester, a semester end examination shall be conducted by the college for each course. This forms the third and final component of assessment (C3) and the maximum marks for the final component will be 60%.

d) In case of a student who has failed to attend the C1 or C2 on a scheduled date, it shall be deemed that the student has dropped the test. However, in case of a student who could not take the test on scheduled date due to genuine reasons, such a candidate may appeal to the Program Coordinator/Principal. The Program Coordinator/Principal in consultation with the concerned teacher shall decide about the genuineness of the case and decide to conduct special test to such candidate on the date fixed by the concerned teacher, but before commencement of the concerned semester end examinations.

e) For assignments, tests, case study analysis etc., of C1 and C2, the students should bring their own answer scripts (A4 size), graph sheets etc., required for such tests/assignments and these be sealed/signed by the concerned department at the time of conducting tests/assignment/project work etc.

f) The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) of a course shall be as under:

	C1	C2	TOTAL
Session Test	20	-	20
Seminar/Presentation/Assignment/Activity/Case Study/Field Work/Project Work/Quiz etc.	-	20	20
TOTAL	20	20	40

- Conduct of Test, Seminar, Case study/Assignment etc., can be either in C1 or in C2 component as decided by the college and concerned department/teacher.
- The teachers concerned shall conduct test/seminar/case study etc., The students should be informed about the modalities well in advance. The evaluated courses assignments during component I (C1) and component II (C2) of assessment are immediately provided to the candidates after obtaining acknowledgement in the register by the concerned teacher(s) and maintained by the Department. Before commencement of the semester end examination, the evaluated test, assignment etc., of C1 and C2 shall be obtained back to maintain them till the announcement of the results of the examination of the concerned semester.

g) The marks of the internal assessment shall be published on the notice board of the department/college for information of the students.

h) The internal assessment marks shall be communicated to the CoE at least 10 days before the commencement of the semester end examinations and the CoE shall have access to the records of such periodical assessments.

i) There shall be no minimum in respect of internal assessment marks.

j) Internal assessment marks may be recorded separately. A candidate, who has failed or rejected the result, shall retain the internal assessment marks.
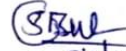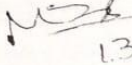
QUESTION PAPER PATTERN
For Ability Enhancement Compulsory Course
(All Programs)

Max Marks 60   **Exam Duration-2½ Hours**

Qn. No.	Particulars		Marks	Total
	SECTION – A			
I	Multiple Choice Questions	10 out of 10	01	10
II	Reference to Context From Text Book only 1. 2. 3. 4.	2 out of 4	05	10
	SECTION – B			
III	Short Answer Questions (From Text Book) 1. 2. 3.	2 out of 3	05	10
IV	Questions from Grammar/Translation. as the case may be 1. 2. 3.	2 out of 3	05	10
	SECTION – C			
V	Essay type Answer Questions From Text Book only	2 out of 3	10	20
	Total			**60**

The BOS meeting of Sanskrit (UG) was held on 04/12/2021. The following Board members were present. [ONLINE]

Sl. No.	Name	Signature with date
1	Dr. Shrinivas	SBul 04/12/2021
2	Dr .Narayana Bhatta K	4-12-2021
3	Dr.Kumarsubramanya Bhat	A.Subrahmanya
4	Dr.Rangaswami M	13/12/2021
5	Shree Sumukha Pranesh	ABSENT

Place : MYSURU

Date: 04.12.2021

Signature of the Chairperson
Chairperson
BOS/BOE in Sanskrit
SBRR Mahajana First Grade College
(Autonomous)
Jayalakshmipuram, Mysuru-570 012

Mahajana Education Society(R.)
Education to Excel
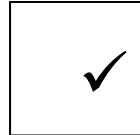# SBRR MAHAJANA FIRST GRADE COLLEGE (Autonomous)
Jayalakshmipuram, Mysuru – 570 012
Affiliated to University of Mysore Re-accredited by NAAC with 'A' Grade
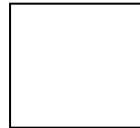**College with Potential for Excellence**

BOARD OF STUDIES (BoS)

DEPARTMENT OF SOCIOLOGY

UG ☑

PG ☐

NEP Syllabi for I & II Semester and B A. SOCIOLOGY
2021-22

Department of Sociology

Motto:

Globalizing through development of Intellectual Culture

Vision:

Building Sociological Imagination

Mission:

Sociological Programmes provide students with a broad and actionable education, applicable to a variety of career paths that includes research, writing and critical thinking skills.

Program Outcomes (POs) for Bachelor of Arts

PO 1: Domain Knowledge: Inculcation of fundamental concepts, principles, methods and the application of the same in the realm of concerned domain.

PO 2: Problem Analysis: This programme enhances the ability to define, identify and analyze appropriate means towards amicable solutions in the given area of Knowledge.

PO 3: Design & Development of Solutions: Structuring theoretical knowledge and developing customized designs in terms of – Intervention strategies, Profiling, Reviews, Archives, Marketing strategies, Info-graphics and Approaches for arriving at relevant and desirable solutions.

PO 4: Research & Investigation: Knowledge and application of "Research Methods" to investigate domain specific problems and derive scientific conclusions through testing of Hypotheses and relevant findings empirically.

PO 5: Usage of Modern Tools and Techniques: Mastery in the academic enclave through skilled handling administering, assessing, validating and interpreting complex phenomena using advanced tools and techniques to create simple and sustainable solutions.

PO 6: Social Sciences & Society – Promotes domain specific literacy to illuminate the significance of each discipline and its applicability for the well-being of Society.

PO 7: **Environment and Sustainability:** Contemplate and Introspect prevailing environmental challenges and consequences. Further, channelize initiatives towards sustainability.

PO 8: Moral and Ethical Values: Application of Professional Ethics, Humanitarian Values, Accountability and Social Responsibilities in emerging society towards attainment of harmony and co-existence.

PO 9: **Individual and Teamwork:** Imbibe the qualities of Teamwork and function effectively as an emerging leader in the diversified and multidisciplinary areas.

PO 10: **Communication:** Demonstrates Competency in comprehending and conceptualizing discipline specific concepts and ideas and communicates effectively through fluid communication within the professional and social setup.

PO 11: **Economics and Project Management:** Understand the Economic Concept in the context of specific discipline and apply the same through initiating Planning, and Executing the Project Dynamics effectively towards successful Project Management.

PO 12: Lifelong Learning: Identify and address their own educational needs in a changing world in ways sufficient to upgrade one's skills and competencies through constant self-evaluation and eternal.

List of BoS Members

Sl no.	Category	Name & Designation	Address for Communication	e-Mail & Mobile No.
01	Chairperson	Radha MS Asst. Professor	Dept of Sociology SBRR Mahajana FGC, Jayalakshmipuram, Mysuru	radhamfgc@gmail.com
02	Vice Chancellor Nominee	Dr Rekha Jadhav Associate Professor	Dept of Sociology Maharaja First Grade College, Mysuru	Rekhakushi6666@gmail.com
03	Expert from other University	Dr.Vinay Rajath.D Professor	Chiarperson Dept of Studies in Sociology University of Mangalore, Konaje	vinayrajath@gmail.com
04		Dr Jayashree Professor	Chairperson DoS in Sociology University of Mangalore	Ab
05	Alumni	Dr. Sowmya Kumar Associate Professor	Maharani's Arts College for Women, Mysuru	sociologychest@gmail.com

OBJECTIVES : SOCIOLOGY

1. Introduce the students to the basic concepts and processes in sociology to understand social life.

2. Provide different perspectives on understanding the social life of people.

3. Update the students with different fields of Sociology and the latest developments in the field.

4. Develop the skills to analyze, interpret and present today's social situation - developments and problems.

5. Critically appreciate the social construction of reality.

6. Ability to examine, relate and connect theory with research.

Year-wise Programme Structure
Discipline Specific Courses (DSC) and Open Electives (OE)

Course, Type, Code & Title		Hours/ Week		Credits	Maximum Marks			Exam Duration	Total Marks
					IA	EXAM			
		L	T/P	L: T:P	C1	C2	C3		
Sociology I Sem									
DSC(1) 211151	**Understanding Sociology**	3	0	3:0:0	20	20	60	$2\frac{1}{2}$Hrs	100
DSC(2) 211152	**Changing Social Institutions in India**	3	0	3:0:0	20	20	60	$2\frac{1}{2}$Hrs	100
OE(1)	**Indian Society: Continuity& Change 21OESOC101**	3	0	3:0:0	20	20	60	$2\frac{1}{2}$Hrs	100
	Sociology of Everyday Life 21OESOC102	3	0	3:0:0	20	20	60	$2\frac{1}{2}$Hrs	100
Open Elective: Anyone to be opted									
Sociology II Sem									
DSC(3) 211251	**Foundations of Sociological Theories**	3	0	3:0:0	20	20	60	$2\frac{1}{2}$Hrs	100
DSC(4) 211252	**Sociology of Rural Life In India**	3	0	3:0:0	20	20	60	$2\frac{1}{2}$Hrs	100
OE(2)	**Social Development in India 21OESOC201**	3	0	3:0:0	20	20	60	$2\frac{1}{2}$Hrs	100
	Society through Gender Lens 21OESOC202	3	0	3:0:0	20	20	60	$2\frac{1}{2}$Hrs	100

Open Elective: Anyone to be opted

DSC(1) Syllabus for BA Sociology(Basic and Honors)

Course Code: 211151	Course Title: DSC (1) UNDERSTANDING SOCIOLOGY
Course Credits: 03(3:0:0)	Hours of Teaching/Week: 03
Total Contact Hours: 42 Hrs	Formative Assessment Marks: 40
Exam Duration: $2\frac{1}{2}$Hrs	Semester-End Examination Marks: 60

Course Outcomes (COs)

CO1:Identify the facets of the nature and role of Sociology in a changing world.
CO2:Comprehend the uniqueness of Sociological imagination in the study of the real world.
CO3:Recognize the different perspectives of perceiving the working of social groups & current social issues in oral & written forms.

Course Content

Unit – 1 Sociology as Science	16
Chapter-1:Sociology as a study of Groups and Social Interaction - Definition, Scope and Need; Sociology as Science Vs. Sociology as Social Reform. **Chapter- 2** Foci of Sociology: Social Institutions, Social Inequality and Social Change. **Chapter -3** (C) Sociological Eye (Randall Collins), Sociological Imagination (C Wright Mills' distinction between trouble i.e. personal in nature and issue, i.e. public in nature). **Chapter- 4.** Sociological Perspectives: Functionalist, Conflict, Symbolic Interactionist, Feminist Chapter No. 5 Social Construction of Reality.	
Unit – 2 Culture and Socialisation	**16**
Chapter-6. Culture: Definition and Elements of Culture; Comparison between Culture and Civilisation; Acculturation: Robert Ezra Park's idea of Melting Pot; Cultural Contact, Cultural Shock, Counter Culture and Contra Culture. **Chapter-7**. Global Culture: Globalisation of Values; Cultural Imperialism. **Chapter-8.** Emerging Issues in Culture: Consumer Culture, Children as Consumers, Cyberculture, Netiquette in the age of Digital Living and Digital Divide. **Chapter-9** Socialisation: Theories of Self: Charles Horton Cooley and George Herbert Mead.	
Unit – 3 Social Change	**10**
Chapter -10 Changes due to Industrialisation, Rationalisation, Globalisation, McDonaldization (George Ritzer), Urbanisation and Information Explosion. **Chapter -11**. Consequences of Change: Changing age Structure of Societies: Ageing and Ageism; Technological Impact on Social Life; Changing Environment.	

Books for Reference:

Berger, P L 1963, Invitation to Sociology: A Humanistic Perspective, Doubleday, Garden City, N.Y

Bruce, Steve, 2018, Sociology: A Very Short Introduction, 2nd edition, Oxford University Press, New York

Bruce, Steve, 2018, Sociology: A Very Short Introduction, 2nd edition, Oxford University Press, New York

Corrigall-Brown, Catherine 2020, Imagining Sociology: An Introduction with Readings, 2nd Edition, Oxford University Press, Canada

Davis, Kingsley 1949, Human Society, Macmillan, Delhi.

Web links:

http://sociological-eye.blogspot.com/Another blog by Randall Collins

https://www.britannica.com/topic/culture

https://www.grin.com/document/453828An article on the impact of digital life on society from a sociological perspective

https://www.pewresearch.org/internet/2019/10/28/5-leading-concerns-about-the-future-of-digital-life/

https://blogs.ed.ac.uk/keywordsindigitalsociology/2020/01/09/the-digital-divide/

Course Articulation Matrix -211151

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	2	2	2	1	2	2	1	1	1	1	1
CO2	2	1	2	2	2	2	2	2	2	1	1	1
CO3	1	1	1	2	1	1	2	2	2	1	1	2
Weighted Average	1.3	1.3	1.6	2	1.3	1.6	2	1.6	1.6	1	1	1.3

DSC(2) Syllabus for BA Sociology(Basic and Honors)

Course Code: 211152	Course Title: DSC (2) Changing Social Institutions in India
Course Credits: 03(3:0:0)	Hours of Teaching/Week: 03
Total Contact Hours: 42 Hrs	Formative Assessment Marks: 40
Exam Duration: $2\frac{1}{2}$Hrs	Semester-End Examination Marks: 60

Course Outcomes (COs)

CO1: Identify the new forms are taken by institutions of Family and Marriage & analyze the role played by religion in the modern world.

CO2: Sensitize regarding the conflicting norms of Secularism and living by one's religious beliefs and appreciate the role of education and challenges in making education accessible to all.

CO3:Grasp the opportunities offered by democracy and the threats affecting its faces & undertake micro research work & communicate effectively.

Course Content

Unit – 1 Family and Marriage	16
Chapter 1: Family - Definitions of Family and Household; Changing the structure of family; changes in size and composition **Chapter 2**:Weakening of gender and age stratification - the democratisation of relationships: between spouses, parent-children; step-parenting **Chapter 3**:Changes in caregiving of children and elderly **Chapter 4**: Marriage – Definition; changing patterns of marital relations - cohabitation, separation, divorce and remarriage **Chapter 5**: Changes in age of marriage, marriage decision making and regional variations **Chapter 6:** Decrease in the number of children and voluntary childlessness	
Unit – 2 Religion and Education	13
Chapter 7:Definition; secularisation vs resurgence of religion in the modern world, Challenge of diversity - religious freedom vs state laws **Chapter 8**:Education: Definition; education as socialisation; types of education - formal and informal **Chapter 9:**Functional view - manifest and latent functions; Conflict view - education as a tool for perpetuating inequality, Schooling and Life Chances (Max Weber's views) - increasing enrolment ratio **Chapter 10**:Education and Employability - Technology and Digital Divide	

Unit – 3 Economic and Political Institutions	13
Chapter 11:Definitions of Economy and Work, Gender stratification in work and its feminization **Chapter 12:**Job insecurity, Unemployment; Outsourcing - opportunities and threats; automation and advancement of technology **Chapter 13**: Definitions of Political Institution, Government, Governance and State **Chapter 14**:Status of Democracy in India, Challenges: Militancy, Fundamentalism, Regionalism **Chapter15**:Globalisation and Social Welfare.	

Books for Reference:

Davis, Kingsley 1949, Human Society, Macmillan, Delhi
 Giddens, Anthony and Philip W Sutton, 2013, Sociology, 7th edition, Wiley India Pvt. Ltd. New Delhi
Gouda, M Sateesh, Khan, A G and Hiremath, S L 2019, Spouse Abusal in India: A Regional Scenario, GRIN Publishing, Munich

Weblinks:
https://www.pewresearch.org/fact-tank/2018/06/29/5-facts-about-religion-in-india/

https://www.nytimes.com/2020/02/19/parenting/why-dads-dont-take-parental-leave.html

Course Articulation Matrix-211152

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	2	2	2	1	1	2	2	2	2	1	1
CO2	1	2	2	2	1	1	2	2	2	1	1	2
CO3	2	1	1	1	2	2	1	2	1	1	1	2
Weighted Average	1.3	1.6	1.6	1.6	1.3	1.3	1.6	2	1.6	1.3	1	1.6

OE(01) Sociology Syllabus for All Programs (Except Arts)

Course Code: 21OESOC101	**Course Title: OE (1) Indian Society: Continuity & Change**
Course Credits: 03(3:0:0)	**Hours of Teaching/Week: 03**
Total Contact Hours: 42 Hrs	**Formative Assessment Marks: 40**
Exam Duration: $2\frac{1}{2}$Hrs	**Semester-End Examination Marks: 60**

Course Outcomes (COs)

CO1:Analyse the nature and direction of change in Indian society, basically from tradition to modernity.

CO2:Examining the changing conditions of the socially excluded group through movements for social justice.

CO3: Evaluate globalization and its impact on Indian society & social values & family relationships.

Course content

Unit – 1 Tradition in Transition	13
Chapter 1: The Nature and Direction of Change in Indian Society **Chapter 2**: The Changing Face of Indian Social Institutions: Family, Caste, Polity and Economy **Chapter 3**:The Rural-Urban Divide: Infrastructure, Education, Health and Local Governance	
Unit – 2 Movements for Social Justice	**16**
Chapter 4: A Background View: Role of the Constitution of India and Legislation **Chapter 5**: Backward Classes and Dalit Movements **Chapter 6:**New Social Movements: LGBTQ, Civil Rights, Ecological, Anticorruption Movements **Chapter 7:**Opportunities for Social Mobility for Scheduled Castes, Scheduled Tribes and Women	
Unit – 3 India in the Globalization Era	**13**
Chapter 8: Globalization and Indian Culture: Impact on Food Habits, Language, Ideas and Life Styles **Chapter 9**:Globalisation and Social Values: Impact on Youth and their World View, Changing Landscape of Love and Marriage, Impact on Familial Relationships and Understanding Others	

Books for Reference:

1) Ahuja, Ram 1993, Indian Social System, Rawat Publications, Jaipur 2) Ambedkar, B R 1948, The Untouchable: Who are they and Why they become Untouchable? Amrith Book Co., New Delhi

3) Beteille, Andre 1965, Caste, Class and Power, University of California Press, Berkeley

Weblinks:

https://www.intechopen.com/chapters/38348 Globalisation and Culture: The Three H Scenarios
https://www.business-standard.com/article/education/india-s-gross-enrolment-in-higher-education-rosemarginally-in-2019-20-121061001249_1.
https://www.wionews.com/south-asia/yoga-indias-new-cultural-tool-of-global-dominance-17104

Course Articulation Matrix – 21OESOC101

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	2	2	2	1	2	2	2	1	1	1	1
CO2	1	2	2	1	2	2	2	1	1	2	2	2
CO3	1	2	2	1	2	2	1	2	2	2	1	2
Weighted Average	1	2	2	1.3	1.6	2	1.6	1.6	1.6	1.6	1.3	1.6

OE(01) Sociology Syllabus for All Programs (Except Arts)

Course Code: 21OESOC102	**Course Title: OE (1) Sociology of Everyday Life**
Course Credits: 03(3:0:0)	**Hours of Teaching/Week: 03**
Total Contact Hours: 42 Hrs	**Formative Assessment Marks: 40**
Exam Duration: $2\frac{1}{2}$ Hrs	**Semester-End Examination Marks: 60**

Course Outcomes (COs)

CO1: Analyse the familiar world from a new perspective.

CO2: Analyze & appreciate how our social world is constructed.

CO3: Illustrate the types of Culture, Mass media, Globalization & Cultural diffusion in everyday life.

Course Content

Unit – 1 Introduction	16
Chapter 1: Sociology as a study of Social Interaction and its Need. **Chapter 2:** Everyday Life - Meaning; Why Study Everyday Life? (Contributions of Erving. Goffman and Anthony Giddens); Role of Socialisation in establishing habits and practices of action,thinking and feeling. **Chapter 3:** Social Institutions as Established Practices and Customs - Definition and Elements. **Chapter 4:** Challenges and Problems of Everyday Life.	
Unit – 2 Self and Society	**13**
Chapter 5: Definition of Situation (W I Thomas' Principle). **Chapter 6:** The Looking-Glass Self; Relation between Individual and Society. **Chapter 7:** Role of Social Media in Constructing Self and Identity.	
Unit – 3 Culture in Everyday Life	**13**
Chapter 8: Definition of Culture; Types of Culture: High Culture, Popular Culture, Recorded Culture and Lived Culture. **Chapter 9:** Mass Media and Everyday Life. **Chapter 10:** Globalisation and Cultural Diffusion.	

Books for Reference:

1) Berger, P L 1963, Invitation to Sociology: A Humanistic Perspective, Doubleday, Garden City, N.Y
2) Bruce, Steve, 2018, Sociology: A Very Short Introduction, 2nd edition, Oxford University Press,
New York
3) Corrigall-Brown, Catherine 2020, Imagining Sociology: An Introduction with Readings, 2nd Edition, Oxford University Press, Canada

Weblinks
http://www.csun.edu/~hbsoc126/soc1/Charles%20Horton%20Cooley.pdf
https://www.khanacademy.org/test-prep/mcat/individuals-and-society/self-identity/v/charles-cooley-lookingglass-self
https://en.wikisource.org/wiki/Body_Ritual_among_the_NaciremaThis is an excellent article on how a group of people take care of their bodies every day of their life.

Course Articulation Matrix – 21OESOC102

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	1	1	2	2	2	2	1	1	1	1
CO2	1	2	2	1	1	2	2	2	2	2	2	1
CO3	1	1	2	2	2	1	1	2	1	1	1	1
Weighted Average	1.3	1.6	1.6	1.3	1.6	1.6	1.6	2	1.3	1.3	1.3	1

DSC(3) Syllabus for BA Sociology(Basic and Honors)

Course Code: 211251	**Course Title: DSC(3) Foundations of Sociological Theories**
Course Credits: 03(3:0:0)	**Hours of Teaching/Week: 03**
Total Contact Hours: 42 Hrs	**Formative Assessment Marks: 40**
Exam Duration: $2\frac{1}{2}$Hrs	**Semester-End Examination Marks: 60**

Course Outcomes (COs)

CO1: Contextualize the social and intellectual background of Classical sociologists.
CO2: Appreciate contemporary classical Sociological thoughts & need for thinking in theoretical terms and concepts.
CO3: Recognise the need for thinking in theoritical terms and concepts.

Course Content

Unit – 1 Auguste Comte and Herbert Spencer	**14**
Chapter 1: Auguste Comte: Intellectual context, Positivism, Law of Three Stages, Classification of Sciences. **Chapter 2:** Herbert Spencer: Theory of Social Evolution, Organic Analogy, Types of Society.	
Unit - 2 Karl Marx and George Simmel	**14**
Chapter 3: Karl Marx: Dialectical Materialism, Economic Determinism, Class Struggle, Alienation **Chapter 4:** Georg Simmel: Formal Sociology, Theory of Sociation, Theory of Conflict.	
Unit - 3 Emile Durkheim and Max Weber	**14**
Chapter 5: Emile Durkheim: Social Facts, Division of Labour in Society, Suicide, Sociology of Religion. **Chapter 6**: Max Weber: Social Action, Ideal Types, Bureaucracy, Types of Authority, Protestant Ethics and Spirit of Capitalism.	

Books for Reference:

1) Abraham, Francis 1984, Modern Sociological Theory, Orient Longman, Delhi
2) Berger, P L 1963, Invitation to Sociology: A Humanistic Perspective, Doubleday, Garden City, N.Y
3) Bruce, Steve, 2018, Sociology: A Very Short Introduction, 2nd edition, Oxford University Press,New York

Weblinks:
https://anthropology.ua.edu/theory/social-evolutionism/
https://www.britannica.com/biography/Karl-Marx/Character-and-significance
https://www.britannica.com/biography/Emile-Durkheim

Course Articulation Matrix –211251

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	2	2	1	2	1	2	2	1	1	2	2
CO2	2	2	2	2	2	1	2	2	2	2	2	2
CO3	2	1	1	1	1	1	2	2	1	1	1	2
Weighted Average	1.6	1.6	1.6	1.3	1.6	1	2	2	1.3	1.3	1.6	2

DSC(4) Syllabus for BA Sociology(Basic and Honors)

Course Code: 211252	Course Title: DSC(4) Sociology of Rual Life in India
Course Credits:03(3:0:0)	Hours of Teaching/Week: 03
Total Contact Hours: 42 Hrs	Formative Assessment Marks: 40
Exam Duration: $2\frac{1}{2}$Hrs	Semester-End Examination Marks: 60

Course Outcomes (COs)

CO1: Evaluate the myth and realities of village India constructed by western schools and the changes in the land tenure system and the consequences.

CO2: Acquire knowledge about Rural caste,gender-related issues and consequences of the virtual market.

CO3: Make an informed analysis of various development programs and challenges encountered.

Course Content

Unit – 1: Rural and Agrarian Social Structure	16
Chapter 1: Social Construction of Rural Societies: Myth and Reality (M N Srinivas) **Chapter 2:** Agrarian Social Structure: Land Tenure Systems (Colonial Period); Post-Independence Indian Land Reform Laws **Chapter 3:** Commercialisation of Agriculture, Commodification of Land	
Unit – 2: Themes of Rural Society in India	14
Chapter 4: Rural Caste and Class Structure **Chapter 5:** Gender and Agrarian Relations **Chapter 6:** Impact of Panchayat Raj System and Rural Politics **Chapter 7:** Actors in Market - Weekly Fairs, Trading Castes, Emerging Trading Classes and Key Role of Intermediaries **Chapter 8:** Emergence of Online and Virtual Commodity Markets - Features and Impact on Traditional Sellers and Buyers.	
Unit – 3: Rural Development	12
Chapter 9: Induced Intervention: PURA, MGNREGA, Swach Bharat Abhiyan, Akshara Dasoha, Water and Land Development Efforts **Chapter 10:** Challenges to Sustainable Rural Development: Casteism, Factional Politics, Natural Calamities (Droughts and Floods), Utilisation of Water, Fertilisers and Pesticides	

Books for Reference:

1) Desai, A R 1977, Rural Sociology in India, Popular Prakashan, Bombay

2) Doshi, S L and Jain P C 1999, Rural Sociology, Rawat Publications, Jaipur

3) Gouda, M Sateesh, Khan, A G and Hiremath, S L 2019, Spouse Abusal in India: A Regional Scenario, GRIN Publishing, Munich

4) Indira R 2011, Themes in Sociology of Indian Education, Sage Publications, Delhi

Weblinks:

https://data.gov.in/catalogsv2?format=json&offset=0&limit=9&filters%5Bfield_sector%3Aname%5D=Rural&sort%5Bogpl_module_domain_name%5D=asc&sort%5Bcreated%5D=desc *Website of Government of India related to data on rural development programmes and their beneficiaries* https://www.india.gov.in/topics/rural *Government of India portal on Rural areas*

Course Articulation Matrix –211252

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1	2	2	2	2	1	2	2	2	1	2
CO2	1	2	2	1	1	1	2	2	2	2	2	1
CO3	1	1	1	2	2	2	1	1	1	2	2	2
Weighted Average	1.3	1.3	1.6	1.6	1.6	1.6	1.3	1.6	1.6	2	1.6	1.6

OE(02) Sociology Syllabus for All Programs (Except Arts)

Course Code: 21OESOC201	**Course Title: OE (2) Social Development In India**
Course Credits: 03(3:0:0)	**Hours of Teaching/Week: 03**
Total Contact Hours: 42Hrs	**Formative Assessment Marks: 40**
Exam Duration: $2\frac{1}{2}$Hrs	**Semester-End Examination Marks: 60**

Course Outcomes (COs)

CO1:Distinguish between growth and development.
CO2:Appreciate the importance of the Social component of development.
CO3:Appreciate the need for sustainable and inclusive human development.

Course Content

Unit – 1 Social Change and Development	16
Chapter 1: Rethinking Development: From economic development to social development and Human Development Index (HDI). **Chapter 2:** Development: Concept - changes in values and social relations as development; S.C. Dube's contributions; Importance of Social Development. **Chapter 3**: Indian thinking about Social Development - Swami Vivekananda, Ravindranath Tagore, M.K. Gandhi and Dr B. R. Ambedkar.	
Unit - 2. Components of Social Development	13
Chapter 4: Political Freedom, Economic Facilities. **Chapter 5:** Social Opportunities, Transparency, Security.	
Unit - 3 Challenges to Social Development	13
Chapter 6: Sustainable and Inclusive Development, Environmental Sustainability. **Chapter 7:** Responsible Private Corporations, Redressing Regional Imbalance, Harnessing Demographic Dividend.	

Books for Reference:

1) So, Alvin Y 1990 Social Change and Development. Sage Publication.
2) Sen, Amartya 1999 Development as Freedom, Oxford University Press, Delhi
3) Rai, Hirendranath 2013 Economic Thinking of Swami Vivekananda, Mahatma Gandhi and Ravindranath Tagore: Advaita Ashrama Calcutta
4) Dayal, P 2006 Gandhian Theory of Reconstruction. Atlantic

Weblinks:
https://blogs.lse.ac.uk/southasia/2016/01/13/5689/ Top 100 economic and development challenges for India
220016
http://dotcue.net/swtn/upload_newfiles/2.SocialDevelopment-TheConcept.pdf
https://uk.sagepub.com/sites/default/files/upm-assets/57961_book_item_57961.pdf Defining Social Development

Course Articulation Matrix – 21OESOC201

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	2	2	2	2	2	2	1	2	2	1
CO2	2	1	2	2	2	2	2	1	2	1	1	2
CO3	1	2	1	1	1	1	1	2	2	2	2	1
Weighted Average	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.3

OE(02) Sociology Syllabus for All Programs (Except Arts)

Course Code: 21OESOC202	**Course Title: OE (02) Society Through Gender Lens**
Course Credits: 03(3:0:0)	**Hours of Teaching/Week: 03**
Total Contact Hours: 42Hrs	**Formative Assessment Marks: 40**
Exam Duration: $2\frac{1}{2}$Hrs	**Semester-End Examination Marks: 60**

Course Outcomes (COs)

CO1: Realize the role of socialisation as a constructor of gender roles and status.

CO2: Appreciate the role of defining one's self-identity in terms of gender.

CO3: Examine the gender bias and discrimination present in everyday social structure & take informed decisions about addressing gender justice issues.

Course Content

Unit – 1 Social Construction of Gender	**14**
Chapter 1: Gender and Sex, Patriarchy, Gender Relations, Gender Discrimination, Gender ,Division of Labour. **Chapter 2:** Gender Equality, Gender Neutrality, Androgyny and Gender Sensitivity. **Chapter 3:** Gender Representation of Women and Third Gender in Indian Social Institutions.	
Unit - 2 Gender Representation and Violence	**14**
Chapter 4: Mass Media and Politics. **Chapter 5:** Education, Employment and Health. **Chapter 6:** Domestic Violence, Sexual Harassment at Work Place, Dowry and Rape, Dishonour Killing, Cyber Crime.	
Unit - 3 Addressing Gender Justice	**14**
Chapter 7: The Convention on the Elimination of All Forms of Discrimination Against Women(CEDAW) **Chapter 8**: 73rd and 74th Constitutional Amendment and Women's Empowerment **Chapter 9:** Right to self-determination of gender - Supreme Court of India's Judgment in NLSA Vs Union of India and others (Writ Petition (Civil) No 400 of 2012)	

Books for Reference:
1) Giddens, Anthony and Philip W Sutton, 2013, Sociology, 7th edition, Wiley India Pvt. Ltd.
New
Delhi
2) Gouda, M Sateesh, Khan, A G and Hiremath, S L 2019, Spouse Abusal in India: A Regional
Scenario, GRIN Publishing, Munich
3) Harlambos, M and R M Heald, 1980, Sociology: Themes and Perspectives, Oxford University
Press,
Delhi

Web Links:
https://web.stanford.edu/~eckert/PDF/Chap1.pdf An Introduction to Gender
https://hbr.org/2019/06/tackling-the-underrepresentation-of-women-in-media
https://en.wikipedia.org/wiki/National_Legal_Services_Authority_v._Union_of_India

Course Articulation Matrix – 21OESOC202

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	2	2	2	2	1	2	2	2	2	1	2
CO2	2	2	2	2	1	2	1	2	1	2	2	1
CO3	2	1	1	1	2	2	1	2	1	2	1	2
Weighted Average	1.6	1.6	1.6	1.6	1.6	1.6	1.3	2	1.3	2	1.3	1.6

Continuous Formative Evaluation/Internal Assessment

Total marks for each course shall be based on continuous assessments and semester-end examinations. The pattern is 40:60 for IA and Semester End Theory Examinations respectively.

	THEORY
Total Marks	**100**
Continuous Assessment – 1 (C1)	**20**
Continuous Assessment – 2 (C2)	**20**
Semester End Examination (C3)	**60**

Evaluation Process of IA Marks shall be as follows:

a) The first component (C1) of the assessment is for 20% marks. This shall be based on tests, assignments, seminars, case studies, fieldwork, project work etc. This assessment and score process should be completed after completing 50% of the syllabus of the course and within 45 working days of the semester program.

b) The second component (C2) of the assessment is for 20% marks. This shall be based on the test, assignment, seminar, case study, fieldwork, internship/industrial practicum/project work, quiz etc. This assessment and score process should be based on the completion of the remaining 50% of the syllabus of the course of the semester.

c) During the 17th – 19th week of the semester, a semester-end examination shall be conducted by the college for each course. This forms the third and final component of the assessment (C3) and the maximum marks for the final component will be 60%.

d) In case of a student who has failed to attend the C1 or C2 on a scheduled date, it shall be deemed that the student has dropped the test. However, in case of a student who could not take the test on the scheduled date due to genuine reasons, such a candidate may appeal to the Program Coordinator/Principal. The Program Coordinator/Principal in consultation with the concerned teacher shall decide about the genuineness of the case and decide to conduct the special test for a such candidate on the date fixed by the concerned teacher but before the commencement of the concerned semester-end examinations.

e) For assignments, tests, case study analysis etc., of C1 and C2, the students should bring their answer scripts (A4 size), graph sheets etc., required for such tests/assignments and these be sealed/signed by the concerned department at the time of conducting tests/assignment/project work etc.

f) The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) of a course shall be as under:

	C1 Marks	C2 Marks	Total Marks
Session Test	20		20
Seminar/Assignment/ Field Visits//Quiz etc.		20	20
Total	20	20	40

- Conduct of Tests, Seminars, Case studies/Assignments etc., can be either in the C1 or in the C2 component as decided by the college and concerned department/teacher.
- The teachers concerned shall conduct tests/seminars/case studies etc., The students should be informed about the modalities well in advance. The evaluated course assignments during component I (C1) and component II (C2) of the assessment are immediately provided to the candidates after obtaining acknowledgement in the register by the concerned teacher(s) and maintained by the Department. Before the commencement of the semester-end examination, the evaluated test, assignment etc., of C1 and C2 shall be obtained back to maintain them till the announcement of the results of the examination of the concerned semester.

g) The marks of the internal assessment shall be published on the notice board of the department/college for information of the students.

h) The internal assessment marks shall be communicated to the CoE at least 10 days before the commencement of the examinations and the CoE shall have access to the records of such periodical assessments.

i) There shall be no minimum in respect of internal assessment marks.

 j) Internal assessment marks may be recorded separately. A candidate who has failed or rejected the result shall retain the internal assessment.

Question Paper Pattern (DSC and OE)
B.A. Examination Month /Year
(Scheme NEP) Sociology
Title of the Paper

Time:2 Hrs 30 mins   **Max Marks:60**

Part-A

I. Answer all Questions: **5 X 2 = 10**

1.
2.
3.
4.
5.

Part-B

II. Answer any Four Questions: **4 X 5 = 20**

6.
7.
8.
9.
10.
11.

Part-C
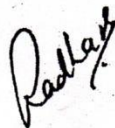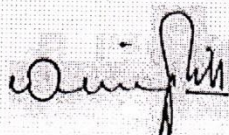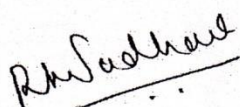
III. Answer any Three Questions: **3X 10 = 30**

12.
13.
14.
15.
16.

Department of Sociology

B.A. Sociology online BoS Meeting for I & II Sem held on 02.12.2021

Sl. No.	Name	Designation	Signature
1	**Radha M.S** HoD of Sociology SBRR Mahajana First Grade College (Autonomous) Jayalakashmipuram, Mysuru radhamfgc@gmail.com 9880473042	Chairman	
2	**Dr. Vinay Rajath** Chair Person & Professor Department of Sociology University of Mangalore vinayrajath@gmail.com 9448815520	Member	
3	**Dr. Rekha Jadhav** Associate Professor Department of Sociology Mahajana College, Mysuru rekhakushi6666@gmail.com 9986713964	Member	

SBRR Mahajana First Grade College (Autonomous), Mysuru

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DEPARTMENT OF NCC

UG ☑

PG ☐

NEP Syllabi for I/II/III/IV Semester SEC - NCC 2021-22

DEPARTMENT OF NCC

Motto

Unity and Discipline

Vision

To take up Career in the Armed Forces

Mission

To Provide leadership in all Walks of Life and always be available for the service of the nation

NCC -Programme Outcomes

PO 1	**Domain Knowledge**
PO 2	**Problem Analysis**
PO 3	**Design & Development of Solutions**
PO 4	**Research and Investigation**
PO 5	**Modern Techniques & Tools**
PO 6	**Impact on Society**
PO 7	**Environment & Sustainability**
PO 8	**Moral & Ethical Values**
PO 9	**Individual & Teamwork**
PO 10	**Communication**
PO 11	**Project Management & Finance**
PO 12	**Life Long Learning**

Course Structure (NEP)

Skill Enhancement Course (SEC) - NCC

<u>I/II Year</u>

Course Type, Code and Title		Hours/ Week		L:T:P (Credits)	Maximum Marks			Exam Duration (Practical)	Total Marks
		L	T/P		IA		Exam		
					C1	C2	C3		
NCC – I/II/III/IV Semester									
SEC	NCC 21NCC94	0	2	0:0:1 (1 Credit)	05	05	15	1 Hour	25

Semester-I/II/III/IV

Skill Enhancement Courses (SEC)

Course Code: 21NCC94	**Course Title:** NCC
Course Credits (L:T:P): 01 (0:0:1)	**Teaching Hours/Week:** 02 Hours
Total Contact Hours: 28 Hours	**Formative Assessment Marks:** 10
Exam Duration: 1 Hour (Practical)	**Semester End Examination Marks:** 15

Course Objective:

To develop Character, Comradeship, Discipline, Leadership, Secular Outlook, Spirit of Adventure and the Ideals of selfless Service among the youth of the Country.

Course Outcomes:
CO1: Acquire the concept of NCC
CO2: Improvised Outlook and Turnout
CO3: Work for the Social Well Being

Unit 1: Introduction to NCC, Aims and Objectives, Organisation structure, Ranks, NCC song, Incentives, Code of ethics and Conduct.

Unit 2: Drill-improve bearing and smartness, Turnout, Obedience to Orders, Types of Drill.

Unit 3: National integration, Health and Hygiene, Personality development and leadership, Social awareness and Community development, Environment awareness and Conservation.

Course Articulation Matrix – 21NCC94

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	-	-	-	1	2	2	2	2	2	-	2
CO2	2	1	1	-	-	1	1	2	3	2	1	2
CO3	2	1	1	1	1	2	2	2	3	2	1	2
Wtd. Avg.	**2**	**1**	**1**	**1**	**1**	**1.6**	**1.6**	**2**	**2.6**	**2**	**1**	**2**

Evaluation Pattern:

Assessment Criteria	Marks
C 1 - Assignment	5
C 2 - Viva	5
C 3 – Semester End Examination (Practical)	15
Total	**25**

Mahajana Education Society (R.)

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College with Potential for Excellence

NATIONAL SERVICE SCHEME

UG ☑

PG ☐

NEP Syllabi for I/II/III/IV Semester SEC - NSS

2021-22

NATIONAL SERVICE SCHEME

MOTTO

Not me But You

VISION

To build the youth with the mind and spirit to serve the society
And work for the social uplift of the down-trodden masses of our
Nation as a movement

MISSION

To promote social, economic, technological, and political change in order
To expand civilization beyond Earth, to settle space and to use the resulting
resources to build a hopeful and prosperous future for humanity.

Program Outcomes (POs) for National Service Scheme

POs	Details of the Program Outcomes (POs)
PO1	Domain Knowledge
PO2	Problem Analysis
PO3	Design & Development of Solutions
PO4	Research & Investigation
PO5	Usage of Modern Tools and Techniques
PO6	Social Sciences & Society
PO7	Environment and Sustainability
PO8	Moral and Ethical Values
PO9	Individual and Teamwork.
PO10	Communication
PO11	Economics and Project Management
PO12	Lifelong Learning

Course Structure

I/II Year

Course Type, Code and Title		Hours/Week		L:T:P (Credits)	Maximum Marks			Total Marks
		L	T/P		IA		Exam	
					C1	C2	C3	
NSS – I/II/III/IV Semester								
SEC	21NSS94	0	2	0:0:1 (1 Credit)	05	05	15	25

Semester-I/II/III/IV Semester
Skill Enhancement Course

National Service Scheme

Course Code: 21NSS94	**Course Title:** National Service Scheme (NSS)
Course Credits (L:T:P): 01 (0:0:1)	**Teaching Hours/Week:** 02 Hours
Total Contact Hours: 28 Hours	**Formative Assessment:** 10 Marks
Exam Duration: 1 Hour (Practical)	**Semester End Examination:** 15 Marks

Course Outcomes:

CO1: Acquire the fundamentals concept of NSS

CO2: Understand the Volunteerism & Organization structure of NSS

CO3: Appreciate the culture of Campus Activities, Shramadhan and Awareness Program and its Benefits through working as a team or group.

CO4: Develop overall personality of volunteers, Off Campus Activities and make them as leaders and responsible Citizens of our nation.

Course Contents	Hours : 28
Unit – I : Fundamentals of NSS	
Introduction to NSS, Origin of NSS, Aims and Objectives of NSS, NSS Motto,NSS Emblem, NSS Badge, NSS Day, NSS Songs.	07
Unit - II : Volunteerism & Organization structure of NSS	
Volunteerism and NSS: Volunteerism– Meaning, definition, basic qualities of volunteers, need of volunteerism for National development. **Organization structure of NSS**- National level, State level, University andInstitutional Level.	07
Unit - III : Campus Activities	
Shramadhan – Plantation, Cleaning, Watering, Weeding, Any other activities. **Awareness Programmes –** Seminar, Workshops, Celebration of National and International days, Personality Development Programmes, Group Activities, etc.,	07
Unit - IV : Off Campus Activities	
Rally, Jatha, Visit to Adopted villages, Swatchatha Programme, Visit and Conserving Ancient monuments and heritage site, Socio Economic Survey of village/slum, Nature Camp, Environmental Education, JOB Card (APL, BPL, Social security schemes), Women Empowerment Programme, Health Camps, Blood grouping awareness and Blood donation, Legal awareness Programme, Literacy Programme, Water Conservation Programme, One Day Special Camp in avillage (preferably in adopted village).	07

References:

a) Prof. B.K. Shivanna, "National Service Scheme" Printing Press KSOU, Mysore 2011

b) MadhuAhuja, Students Leaders in the National Service Scheme (NSSS) in Delhi : A case study 1986 (New Delhi : Dept. of Management and Extension, Lady Irwin College, University of Delhi, 1986)

c) Chattarjee, B., Social service opportunities for students in Slum Areas (reprint : Delhi : Delhi School of Social Work, University of Delhi 1973)

d) Desai Bharat. H, A Social Psychological Study of the effectiveness of the National Service Scheme in developing some aspects of the Student Personality – (Ph. D Thesis submitted to university of Pune 1982)

e) Dikxit. P Sanjeeva, National Service Scheme in Andhra Pradesh, (Andhra University Press Publications, 1994)

f) Dilshad. M.B National Service Scheme in Karnataka, (Ph. D Thesis submitted to Karnataka University Dharwad, 1997)

g) Balan K., (1985), Youth Power in the Modern World, Ajanta Publications, NewDelhi

h) Jones Gill, (2009), Youth, Polity Press,UK

i) Kehily Jane Mary (Etd.) (2007), Understanding Youth: Perspectives, Identities

and Practices, Sage Publication, London

j) Landis H. Paul, (2011), Adolescence and Youth: The Process of Maturing, Sarup Book Publishers Pvt. Ltd., New Delhi

Course Articulation Matrix- 21NSS94

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	2	-	1	3	3	2	3	2	1	3
CO2	1	2	1	1	-	3	3	3	3	2	1	2
CO3	2	2	2	1	-	3	3	3	3	2	1	3
CO4	2	3	1	1	1	3	3	3	3	3	2	3
Weighted Average	1.75	2.25	1.5	1	1	3	3	2.75	3	2.25	1.25	2.75

Scheme of Valuation

Assessment Criteria	Marks
C1 – Unit 1 & 2 Assignment / Test / Quiz	**05**
C2 – Campus / off campus Activities Assignment / Test / Quiz	**05**
C3 - Participation – 5 marks Leadership & Responsibility – 5 marks Report Submission – 5 marks	**15**
Total	**25**

DEPARTMENT OF PHYSICAL EDUCATION

MOTTO
Play, Perform and Excel

VISION
Develop physical culture among youth to create healthier society

MISSION
- To inculcate sportsman spirit that leads to team spirit and induce qualities of leadership among students.

- To organize programs aimed at promotions of sports.

- To ensure women participation in sports.

- To teach ancient Indian knowledge of Yoga and Self defence through experts.

- To spread sports culture in the society for sportive India.

Program Outcome (PO) Attributes

PO 1: Domain Knowledge

PO 2: Problem Analysis

PO 3: Design and Development of Solutions

PO 4: Investigation & Research

PO 5: Use of Modern Techniques/Tools

PO 6: Impact on Society

PO 7: Environment and Sustainability

PO 8: Moral and Ethical Values

PO 9: Individual and Team Work with Time Management

PO 10: Communication

PO 11: Project Management and Finance

PO 12: Life-long Learning

Course Structure (NEP)
Skill Enhancement Course (SEC)
I Year

Course Type, Code and Title		Hours/Week		L:T:P (Credits)	Maximum Marks			Exam Duration (Practical)	Total Marks
					IA		Exam		
		L	T/P		C1	C2	C3		
Physical Education – I/II Sem									
SEC	Physical Education and Sports **21SPO94**	0	2	0:0:1 (1 Credit)	05	05	15	1 Hour	25
SEC	Physical Education and Yoga **21YOG94**	0	2	0:0:1 (1 Credit)	05	05	15	1 Hour	25
SEC	Health and Wellness **21HNW94**	0	2	0:0:1 (1 Credit)	05	05	15	1 Hour	25

Semester-I/II
Skill Enhancement Courses (SEC-1)

Course Code: 21SPO94	**Course Title:** Physical Education and Sports
Course Credits (L:T:P): 01 (0:0:1)	**Teaching Hours/Week:** 02 Hours
Total Contact Hours: 28 Hours	**Formative Assessment Marks:** 10
Exam Duration: 1 Hour (Practical)	**Semester End Examination Marks:** 15

Course Outcome (CO): Plan, organize and execute sports events.

Content of Theory & Practical Course	Hours
Unit 1: Physical Education & Sports • Conditioning exercises • Aerobics & Calisthenics • One Major Game and One Indigenous Game (Basic Skills) • One Track/Field Event • Intramural Competitions	**28**

Course Articulation Matrix – 21SPO94

CO/ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	1	1	1	1	2	1	1	2	1	2	1	2
Wt. Avg.	1	1	1	1	2	1	1	2	1	2	1	2

Semester- I/II
Skill Enhancement Courses (SEC-2)

Course Code: 21YOG94	**Course Title:** Physical Education and Yoga
Course Credits (L:T:P): 01 (0:0:1)	**Teaching Hours/Week:** 02 Hours
Total Contact Hours: 28 Hours	**Formative Assessment Marks:** 10
Exam Duration: 1 Hour (Practical)	**Semester End Examination Marks:** 15

Course Outcomes:

CO1- Inculcate the habit of fitness through exercises and recreation.

CO2- Assimilate the knowledge of Physical Education and Yoga.

Content of Practical Course	Hours
Unit 1: Physical Education • General & Specific warm up exercises • Recreation Games and Fitness • Any 2 Major Game and one minor game **Unit 2: Yoga** • Shitalikarna Vyayama • Suryanamaskara • Basic Set of Yoga Asanas • Basic Set of Pranayama & Meditation	**28**

Course Articulation Matrix – 21YOG94

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	3	1	1	2	3	3	1	2	3	3	1	2
CO2	1	1	1	2	1	3	1	2	2	3	1	2
Wt. Avg.	2	1	1	2	2	3	1	2	2.5	3	1	2

Semester- I/II
Skill Enhancement Courses (SEC-3)

Course Code: 21HNW94	**Course Title:** Health and Wellness
Course Credits (L:T:P): 01 (0:0:1)	**Teaching Hours/Week:** 02 Hours
Total Contact Hours: 28 Hours	**Formative Assessment Marks:** 10
Exam Duration: 1 Hour (Practical)	**Semester End Examination Marks:** 15

Course Outcomes:

CO1 – Enhance the dimensions of health and wellness in coping with stress.

CO2 – Inculcate the knowledge of various exercises.

Number of Credits	Number of lecture hours/semester
1	Theory = 14 Hours
	Practicals = 14 Hours

Content of Course (1+0+1)	
Unit 1: Theory	
a. Meaning, Definition and Importance of Health & Wellness	
b. Dimensions of Health and Wellness	**14**
c. Role of Exercise in maintaining Health & Wellness	
d. Causes of Stress and Stress relief through Exercise	
e. Nutrition for Health and Wellness	
Unit 2: Practicals – Exercises for Health and Wellness	
a. Warming-Up	**14**
b. Stretching Exercises	
c. Strengthening Exercises	
d. Cardiovascular Exercises	
e. Flexibility and Agility Exercises	
f. Relaxation techniques	
Note: The Program shall be designed at college level for Specially Challenged Students	

Course Articulation Matrix - 21HNW94

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	3	1	1	2	3	3	1	2	3	3	1	2
CO2	1	1	1	2	1	3	1	2	2	3	1	2
Wt. Avg.	2	1	1	2	2	3	1	2	2.5	3	1	2

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DEPARTMENT OF RANGERS AND ROVERS

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P ☐

NEP Syllabi for I/II/III/IV Semester Rangers and Rovers (SEC)

2021-2022

DEPARTMENT OF RANGERS AND ROVERS

Motto

Service

Vision

To bring over all development in one's personality

Mission

To provide a value system based leadership building a better world and to play a constructive role in society.

Program Outcome (PO) Attributes

PO 1	Domain Knowledge
PO 2	Problem Analysis
PO 3	Design & Development of Solutions
PO 4	Research and Investigation
PO 5	Modern Techniques & Tools
PO 6	Impact on Society
PO 7	Environment & Sustainability
PO 8	Moral & Ethical Values
PO 9	Individual & Teamwork
PO 10	Communication
PO 11	Project Management & Finance
PO 12	Life Long Learning

Course Structure (NEP)

Skill Enhancement Course (SEC)

Course Type, Code and Title		Hours/ Week		L:T:P (Credits)	Maximum Marks			Exam Duration (Practical)	Total Marks
					IA		Exam		
		L	T/P		C1	C2	C3		
Rangers and Rovers – I/II/III/IV Semester									
SEC	**RR** BA/BCA/BSc/BCom/BBA **21RNR94**	-	2	0:0:1	05	05	15	1 Hour	25

Skill Enhancement Courses (SEC): for semester I/II/III/IV

SEC Module

Course Code: 21RNR94	**Course Title:** Rangers and Rovers
Course Credits: 01 (0:0:1)	**Hours of Teaching/Week:** 2 Hour (Practical)
Total Contact Hours: 28 Hours	**Formative Assessment Marks:** 10
Exam Duration: 1 Hour (Practical)	**Semester End Examination Marks:** 15

Course Objective:
1. To practice national integration.
2. To develop personality through community services.
3. To work with and among people.
4. To gain leadership skills.
5. To enable students to have ethical sense.

Course Outcomes:
CO1: Assimilate the knowledge and inculcate the Leadership, good manners and ideals of disciplined responsible young citizens.

Content of the Course		**Hours**
Unit- I	**Introduction and Knowledge** - Rovering and Rangering, Prayer & Flag Song, Flags, Promise and Law, Discipline and Uniform, First Aid, Knots, Make a scarf using the material available at your home.	8
Unit- II	**Skills :** Team building and leadership skills- Campfire/ Local Handicraft/ College level cleanliness drive/ rope work/ cooking/ first aid/ signaling/ skill oriented Games- In-door and Outdoor Games ,etc	10
Unit- III	**Group activities**: Community service-sustainable development/Bore well recharge / Food save warriors / Organize science exhibition / Road Safety awareness/Rain Water Harvesting/Local Festivals service/Prepare Seed Balls/Teaching Game etc.	10

Reference Books
1. Scouting for Boys
2. Rovering to Success
3. Girl Guiding in India
4. Ranger Handbook
5. Ranger Leader Handbook
6. Rover Scouting
7. All faith prayer
8. Pioneering Hand Book
9. B.P. Six Exercise
10. Camp Fire Book
11. Camping and Hiking
12. Drill and Marchpast
13. Knots and Pioneering
14. APRO – II
15. APRO – III
16. http://sdgs.scout.org

Note: Reference books and materials available at http://shop.bsgkarnatka.org
Address: The Bharat Scouts and Guides, KarnatakaState Headquarters
#39, Shanthi Gruha, Palace RoadBangalore - 560001

Course Articulation Matrix – 21RNR94

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1	1	1	1	2	3	3	2	2	1	2
Wtd. Avg.	2	1	1	1	1	2	3	3	2	2	1	2

ASSESSMENT:

Assessment Criteria	Marks
C1: Assignment	05
C2: Activities	05
C3: Semester End Examination (Practical)	15
TOTAL	**25**

EVALUATION PATTERN

C1	05 Marks (Assignment)
C2	05 Marks (Team building and leadership skills- Campfire/ Local Handicraft/ College level cleanliness drive/ rope work/ cooking/ first aid/ signaling/ skill oriented Games- In-door and Outdoor Games/ Community service- sustainable development/Bore well recharge / Food save warriors / Organize science exhibition /Road Safety awareness/Rain Water Harvesting/Local Festivals service/Prepare Seed Balls/Teaching Game etc.)
C3	15 Marks (Semester End Examination (Practical)
Total	25 Marks