



Taranath Shikshana Samsthe

Laxmi Venkatesh Desai College, Raichur

Affiliated to Raichur University, Raichur & Re-accredited by NAAC with B Grade



1.3: Curriculum Enrichment

1.3.1: Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability in transacting the Curriculum

S.No	Program	Course	Semester	Topic	Title of the crosscutting issue	Page no
1	BA	Education	IV	Entrepreneurship In Education	Professional Ethics	1
2	B.Sc	Biotechnology	VI	Vermi technology	Professional Ethics	2
3	B.Sc	Biotechnology	VI	Food and Dairy Technology	Professional Ethics	3
4	B.Sc	Biotechnology	V	Forensic Science & Environmental Monitoring	Professional Ethics	4
5	B.Sc	Biotechnology	VI	Industrial biotechnology	Professional Ethics	5
6	B.Sc	Biotechnology	IV	Intellectual property rights	Professional Ethics	6
7	B.Sc	Biotechnology	IV	Genetic engineering	Professional Ethics	7
8	B.Sc	Microbiology	IV	Food, diary and industrial microbiology	Professional Ethics	8
9	M.Sc	Physics/ Chemistry	II	Computer Fundamentals	Professional Ethics	10
10	M.Sc	Physics/ Chemistry	III	E-Commerce	Professional Ethics	11
11	B.Sc	Political Science	III	Indian Constitution	Professional Ethics	12
12	BA/B.Sc/ BCA	English	IV	Gender Studies	Gender	14

Coordinator



	BA	Education	IV	Women Education	Gender	15
14	BA	Political science	III	Gender and politics (NEP)	Gender	16
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6	BA,	Kannada	III	Madam curie, Salumarada Thimakka	Gender	18
17	BA	Kannada	III	Mary kom Boxer,	Gender	19
18	BSc	Kannada	I	Sanskriti Sanchay	Human Values	20
19	BA	Kannada	III	Jeevana kalay	Human Values	21
20	B.Sc/BCA /BA	Hindi	I	Hindi kahani sahitya	Human Values	22
21	BA	Sociology	IV	society in India	Human Values	25
22	BA	Sociology	IV	Changing social institutions in India	Human Values	26
23	BA	Political Science	IV	Indian Society's issues and problems	Human Values	27
24	BA	Political Science	II	Issues and Concerns	Human Values	28
25	BA	Political Science	I	Human rights	Human Values	29
26	BA	Political Science	III	Challenges before good governance in india	Human Values	31
27	BA	Political Science	III	Citizenship issues in india	Human Values	32
28	BA	Political Science	I	Understanding Dr.B.R Ambedkar	Human Values	33
29	BA	Political Science	III	Economic and political institutions	Human Values	34
30	BA	Political Science	III	Issues in India	Human Values	35



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31	BA	Economics	VI	Indian Economy	Human Values	36
32	BA	Economics	III	Microeconomics	Human Values	37
33	BA	Economics	IV	Statistics of economy	Human Values	39
34	BA	Economics		Characteristics of Karnataka Economy	Environment and Sustainability	41
35	B.Sc	microbiology	VI	Environmental Microbiology	Environment and sustainability	42
36	B.Sc	microbiology	VI	environmental and sanitary microbiology	Environment and sustainability	43
37	B.Sc	Zoology	VI	Ecology wildlife biology and animal behavior	Environment and sustainability	45
38	B.Sc/BA/BCA	Botany	I	Environmental Studies	Environment and sustainability	46
39	B.Sc	Botany	VI	Nursery and Gardening (CBCS)	Environment and sustainability	48
40	B.Sc	Botany	VI	Floriculture	Environment and Sustainability	49

[Signature]
Co-ordinator

Internal Quality Assurance Cell (IQAC)
Laxmi Venkatesh Desai College, RAICHUR-03.



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1.3.1 9
Syllab

BA Education ①



Government of Karnataka

Model Curriculum

PE

Name of the Degree Program	: BA (EDUCATION)	Discipline Core	: EDUCATION
Total Credits for the Program	: 25	Year of implementation	: 2021-22

BA-Semester IV

Course Title: ENTREPRENEURSHIP IN EDUCATION			
COURSE CODE	OE-4(3):EDU (OE):4		
TOTAL CONTACT HOURS	: 42hrs	COURSE CREDIT	: 3
FORMATIVE ASSESMENT MARKS	: 40	SUMMATIVE ASSESMENT MARKS	: 60
MODEL SYLLABUS AUTHORS	: KSHEC	DURATION OF SE EXAM	: 2hrs

Course Outcome/ LOCF

On completion of the course, the student teacher will be able to: ➤ Elucidates the concept of Entrepreneurship ➤ Differentiate between various types of entrepreneurs ➤ Explains the role of entrepreneurs as Appreciate the role of global and Indian ➤ Establishes /proves that entrepreneurs or innovators and problem solvers.	42 Hrs
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OE-4(3):EDU (OE):4

Unit-1 Meaning and Evolution of Entrepreneurship .

1.1. Meaning and Importance, Evolution of term 'Entrepreneurship' 1.2. Factors influencing entrepreneurship. A. Psychological factors, 1.3. B. Social factors, C. Economic factor, D. Environmental factors Entrepreneur as problem solvers and innovators.	14 Hrs
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BIOTECHNOLOGY V SEMESTER FROM ACADEMIC YEAR 2020-21.

SECBT - 2 VERMITECHNOLOGY (Total 30 hrs.)

Unit I: Introduction 12h

Introduction to vermiculture. Definition and scope of Vermiculture. Earthworm distribution - Habitat and food niches. Earthworm activity on soil fertility and major types (red soil, black soil, alluvial soil). Influence of soil organisms in vermiculture - Problems in vermiculture and remedial solutions and Economic importance of vermicompost.

Unit II 4h

Ecological classification of earthworms- epigeic, anecic and endogeic forms. Physical, chemical and biological changes caused by earthworms in soil drilospheres and vermicasts.

Unit III 4h

Types of earthworms: Endemic and exotic species of earthworms. Selection of earthworm species. Bio-resources for Vermicomposting. Methodology of Vermicomposting. Abiotic and biotic factors influencing the process of vermicomposting

UNIT IV 10h

Small scale and large-scale Factors affecting vermicomposting - pH, moisture, temperature. Vermiculture unit - materials required and maintenance. Harvesting of vermicompost - quality, properties and advantages over chemical fertilizers. Packaging and marketing- cost benefit analysis. Vermiwash and its applications. Natural enemies of earthworms: Pests, parasites and pathogens affecting earthworms. Uses of earthworms in food and medicine -

References:

1. "Role of Earthworms in Agriculture" Bhatt J.V. & S.R. Khambata (1959) Indian Council of Agricultural Research, New Delhi
2. "Biology of Earthworms" Edwards, C.A. and J.R. Lofty (1977) Chapman and Hall Ltd., London.
3. "Earthworms: Lee, K.E. (1985) Their ecology and Relationship with Soils and Land Use" Academic Press, Sydney.
4. "Earthworm Biology" Wallwork, J.A. (1983) Edward Arnold (Publishers) Ltd. London
5. "Vermitechnology" by M.Seetha Lekshymy, R.Shanthi Saras publication
6. "Vermitechnology" by A.Mary violet Christy .Mjp publishers
7. "Vermitechnology" BY Laxmi prabha and S. Priya LAP Lambert Academic Publishing
8. Radha D. Kale. Earthworm: Cindrella of organic farming. Prism book Pvt. Ltd. 2000.
9. Radha D Kale. Vermicompost- Crown Jewel of organic farming. N.D.Kale Publishers. 2006
10. C.A Edward & P Bohlen. Biology and ecology of earthworms. 3rd edition, Chapman & Hall, London.1986.

BIOTECHNOLOGY VI SEMESTER FROM ACADEMIC YEAR 2020-21.

SECBT- 4 FOOD AND DAIRY TECHNOLOGY (Total 30 hrs.)

Unit -1 Food as A Substrate for Microbial Growth 06hrs

Factors affecting microbial growth in food. Food contamination-sources, Microbial spoilage of food-milk, fruits & vegetables, cereal & cereal products, Meat & meat products, milk & milk products & canned foods.

Unit-2 Principles and Methods of Food Contamination Spoilage & Preservation. 10 hrs

Types of food contamination, Methods of spoilage, & methods of food preservation, Physical methods- high temperature, low temperature, irradiation, aseptic packaging, drying, removal of microbes,

Chemical methods -salts, sugar, benzoates, citric acid, ethylene oxide, nitrate and nitrite, Food sanitation and control -GMP & HACCP.

Unit-3 Bacterial Food Poisoning & Non-Bacterial Food Poisoning & Intoxication. 06 hrs

Color, taste, pH and buffering capacity, refractive index, viscosity, surface tension, freezing, boiling point, specific heat, OR, electrical conductivity. Food poisoning by *Clostridium botulinum*, *Staphylococcus aureus* food infection by *Salmonella* and *E. coli*.

Unit-4 Dairy Products, Probiotics and Prebiotic 08hrs

Fermented dairy products - yogurt, acidophilus milk, kefir, dahi and cheese, probiotics definition, examples and benefits. Food borne diseases.

Market milk industry and milk products. Butter, ghee, flavored milk, yoghurt, dahi, shrikhand, ice-cream, condensed milk, milk powder, channa, paneer, cheese (cheddar).

Recommended Readings

1. De Sukumar, Outlines of Dairy Technology, Oxford University Press, Oxford. 2007. 2. Hall GM, Fish Processing Technology, VCH Publishers Inc., NY, 1992
3. Sen DP, Advances in Fish Processing Technology, Allied Publishers Pvt.Limited 2005
4. Shahidi F and Botta JR, Seafoods: Chemistry, Processing, Technology and Quality, Blackie Academic & Professional, London, 1994

professional

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Recommended books

1. Gene Cloning and DNA Analysis. By Brown TA. 5th edition. Blackwell Publishing, Oxford, U.K.
2. Biotechnology-Appling the Genetic Revolution. By Clark DP and Pazdernik NJ. Elsevier Academic Press, USA.
3. Molecular Biotechnology- Principles and Applications of
4. recombinant DNA. By Glick, B.R., Pasternak, J.J. ASM Press, Washington
5. Principles of Gene Manipulation and Genomics. By Primrose SB and Twyman RM. 7th
6. edition. Blackwell Publishing, Oxford, U.K.
7. Molecular Cloning-A Laboratory Manual. By Sambrook J, Fritsch EF and Maniatis T. 3rd
8. edition. Cold Spring Harbor Laboratory Press.

V SEMESTER

SECBTT-I. Forensic science & Environmental monitoring

15 Hours

Part A. Forensic science

Unit 1.

- 1.1 Introduction and principles of forensic science, forensic science laboratory organization, Service, tools and techniques in forensic science, Branches of forensic science,
- 1.2 Causes of crime, Role of modus operandi in criminal investigation. Classification of injuries and their medico-legal aspects,
- 1.3 Method of assessing various types of deaths.
- 1.4 Classification of fire arms and explosives, Introduction to internal, external and terminal ballistics. Chemical evidence for explosives.

04 Hours

Unit 2.

- 2.1 General and individual characteristics of handwriting, Examination and comparison of handwritings and Analysis of ink various samples.
- 2.2 Role of the toxicologist, Significance of toxicological findings.
- 2.3 Fundamental principles of fingerprinting. Classification of fingerprints, Development of finger print as science for personal identification.
- 2.4 Principle of DNA fingerprinting. Application of DNA profiling in forensic medicine,
- 2.5 Investigation Tools, Evidence Preservation, Search and Seizure of Computers, Introduction to Cyber security.

04 Hours

Part B. Environmental monitoring

Unit 3.

- 3.1 Modern fuels and their environmental impact: Biogas, Biohydrogen gas & Bioethanol production.
- 3.2 Bioremediation of soil & water contaminated with oil spills, heavy metals and detergents.
- 3.3 Phyto-remediation. Degradation of pesticides and other toxic chemicals by micro-organisms (degradation chlorinates, hydrocarbons).
- 3.4 Solid waste disposal & monitoring methods (Composting, Vermicomposting)
- 3.5 Liquid waste disposals & sources. Treatment of municipal waste and Industrial effluents.
- 3.6 Biomining & extraction of pure metal by microbes

07 Hours

6. Van Vleck LD, Pollak EJ & Bltenău EAB. Genetics for Animal Sciences. WH Freeman
7. Crawford RD. Poultry Breeding and Genetics. Elsevier
8. Singh RP & Kumar J. Biometrical Methods in Poultry Breeding. Kalyani
9. Animal cell culture and technology: The basics. By Butler, M. II Edition. Bios scientific publishers.

VI semester

SECBTT-3. Industrial Biotechnology

15 Hrs

Unit 1.

- 1.1 Introduction to industrial Biotechnology, basic principles of fermentation technology
- 1.2 Screening and isolation of Microorganisms, maintenance of strains, strain improvement (Mutant selection, Recombinant DNA methods).
- 1.3 Fermentation media: Natural and Synthetic Media
- 1.4 Sterilization techniques: Physical & Chemical methods

04 Hrs.

Unit 2.

- 2.1 Fementor design: Process of Aeration, Agitation, Temperature regulation and Foam control. Types of Fermenters.
- 2.2 Type of Fermentation: Solid State, Submerged fomentation and continuous fermentation
- 2.3 Immobilized enzyme and cell bioreactors
- 2.4 Production of Microbial products: Alcohol, Alcoholic Beverage (Beer), Organic acid (Citric acid), Antibiotic (Penicillin), Amino acids (Glutamic acid), Vitamin (B12)
- 2.5 Brief account of steroid biotransformation.

05 Hrs

Unit 3

- 3.1 Technique: of mass culture of Algae-Spirulina
- 3.2 Microbial polysaccharides and polyesters.
- 3.4 Introduction to downstream processing, product recovery and purification.
- 3.5 Methods of Sewage & Effluent treatment.

06 Hrs

Practicals

1. Algal and fungal Culture-Spiraling, Agarics, Yeast and Aspergillums.
2. Estimation of citric acid from Aspergillums Culture.
3. Immobilization of Yeast cells.
4. Preparation of wine.
5. Immobilization of enzymes- (Inverses can be obtained from yeast cells and observed for production).
6. Production and analysis of ethanol by Specific gravity method.
7. Production and analysis of amylase.
8. Production and analysis of lactic acid.
9. Isolation of industrially important microorganism from natural resource.

Recommended books

1. General Microbiology. By Sullia S. B & Shantharam S., Oxford, & IBH Publishing Co. Pvt



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Model Curriculum

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Program Name	BSc Biotechnology	Semester	Fourth Sem
Course Title	Intellectual Property Rights		
Course Code	OE-4	No. of Theory Credits	3
Contact hours	Lecture	Duration of ESA/Exam	2.5 Hours
	Practical		
Formative Assessment Marks		Summative Assessment Marks	

Course Pre-requisite(s): Semester I and II of composite Home Science.

Course Outcomes (COs): At the end of the course the student should be able to:

1. Knowledge about need and scope of Intellectual property rights
2. Acquire knowledge about filing patents, process, and infringement
3. Knowledge about trademarks, industrial designs, and copyright

Content	45 Hrs
Unit-I - Introduction to Intellectual property rights (IPR): Genesis and scope. Types of Intellectual property rights - Patent, Trademarks, Copyright, Design, Trade secret, Geographical indicators, Plant variety protection. National and International agencies - WIPO, World Trade Organization (WTO), Trade-Related Aspects of Intellectual Property Rights (TRIPS), General Agreement on Tariffs and Trade (GATT).	14 Hrs
Unit -II - Patenting, process, and infringement Basics of patents - Types of patents; Patentable and Non-Patentable inventions, Process and Product patent. Indian Patent Act 1970; Recent amendments; Patent Cooperation Treaty (PCT) and implications. Process of patenting. Types of patent applications: Provisional and complete specifications; Concept of "prior art", patent databases (USPTO, EPO, India). Financial assistance, schemes, and grants for patenting. Patent infringement- Case studies on patents (Basmati rice, Turmeric, Neem)	14 Hrs
Unit -III - Trademarks, Copy right, industrial Designs Trademarks- types, Purpose and function of trademarks, trademark registration, Protection of trademark. Copy right- Fundamentals of copyright law, Originality of material, rights of reproduction, industrial Designs: Protection, Kind of protection provided by industrial design.	14 Hrs

Pedagogy

Summative assessment = 40 marks theory paper, End semester Exam duration of exam 2 hours	
Formative Assessment Occasion / type	Weightage in Marks (100)
Assignment	10
Seminar	10
Case studies	10
Test	10
Total	40 marks

References

1	Manish Arora. 2007. Universal's Guide to Patents Law (English) 4th Edition) -Publisher: Universal Law Publishing House
2	Kalyan C. Kankanala. 2012. Fundamentals of Intellectual Property. Asia Law House
3	Ganguli P. 2001. Intellectual Property Rights: Unleashing the knowledge economy. New Delhi: Tata McGraw-Hill Pub

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B. Sc. IV Semester

CCBTT-4. Genetic Engineering

60 hrs

Unit 1.

1.1 Molecular tools and applications- restriction enzymes, ligases, polymerases, alkaline phosphatase. Types of cloning vectors & Shuttle vectors, Microinjection.

1.1 Electroporation, Ultrasonication.

1.2 Principle and applications of Polymerase chain reaction (PCR), RT- (Reverse transcription) PCR.

1.3 Southern and Northern hybridization.

16 hrs

Unit 2.

2.1 Preparation of Genomic and cDNA library, Screening of recombinants, Reverse

2.2 Transcription, Applications of Genetic Engineering

2.3 Therapeutic products produced by genetic engineering-blood proteins, human hormones, immune modulators and vaccines (one example each).

16 hrs

Unit 3.

3.1 Random and site-directed mutagenesis: Primer extension and PCR based methods of site directed mutagenesis, Random mutagenesis.

3.2 Gene shuffling, production of chimeric proteins, Protein engineering concepts and examples (any two).

10 hrs

Unit 4.

4.1 Introduction to Genomics, DNA sequencing methods: Maxam & Gilbert method, and Sangers method.

4.2 Introduction to Proteomics, Analysis of proteomes. 2D-PAGE. Sample preparation, solubilization, reduction, resolution.

4.3 Reproducibility of 2D-PAGE. Mass spectrometry based methods for protein identification. *De novo* sequencing using mass spectrometric data.

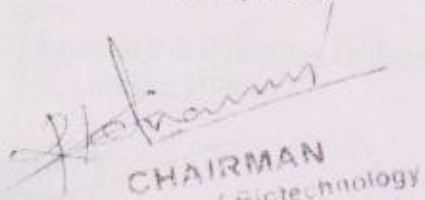
4.4 Human genome project, Human genetic engineering-problems & ethics

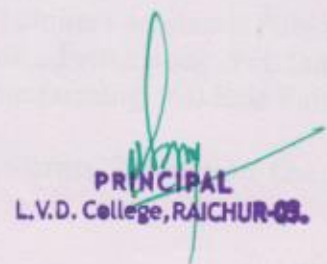
4.5 Biosensors & Nanotechnology and their applications.

18 hrs

PRACTICALS

1. Isolation of Chromosomal DNA from bacteria
2. Isolation of plasmid from bacteria
3. Restriction digestion of DNA
4. Ligation of DNA fragments
5. Making competent cells
6. Transformation of competent cells.
7. Demonstration of PCR using thermocycler
8. Demonstration Western blotting technique
9. Study of conjugation process


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Biotechnology


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(DISCIPLINE SPECIFIC ELECTIVE MICROBIOLOGY)**DSEM-1: FOOD, DAIRY & INDUSTRIAL MICROBIOLOGY**

8

CREDITS: 04**Total hrs: 60****PREAMBLES:**

- This paper would enable students to learn the epidemiology and food borne diseases and pathogens
- Various methods of pathogen detection, beneficial and harmful effects of microbes in food industry, food safety standards, spoilage by microorganisms, food preservation
- Screening of microorganisms strain improvement of micro organisms and their preservation
- Fermented microbial products, industrial applications of microorganisms.

UNIT 1: INTRODUCTION TO INDUSTRIAL MICROBIOLOGY**10hrs**

Brief history and developments in industrial microbiology, Types of fermentation processes - solid state, liquid state, batch, fed-batch and continuous. Types of fermenter - laboratory, pilot-scale and production fermenter, Components of a typical continuously stirred tank bioreactor.

UNIT 2: ISOLATION OF INDUSTRIAL STRAINS AND FERMENTATION MEDIUM**10hrs**

Primary and secondary screening, Preservation and maintenance of industrial strains
Raw materials- definition, types of Raw materials, chemical composition, uses of raw materials.

UNIT 3: MICROBIAL FERMENTATION PROCESSES:**10hrs**

Downstream processing - filtration, centrifugation, cell disruption, solvent extraction. Microbial production of industrial products - citric acid, ethanol and penicillin, Riboflavin, Acetone - butanol. Industrial production and uses of the enzymes - amylases, proteases.

UNIT 4: FOOD AS A SUBSTRATE FOR MICROBIAL GROWTH:**06hrs**

Factors affect microbial growth in food. Food contamination-sources, Microbial spoilage of food - milk, egg, bread and canned foods.

UNIT 5: PRINCIPLES AND METHODS OF FOOD PRESERVATION:**10hrs**

Physical methods - high temperature, low temperature, irradiation, aseptic packaging, drying, removal of microbes,
Chemical methods - salt, sugar, benzoates, citric acid, ethylene oxide, nitrate and nitrite, Food sanitation and control -GMP & HACCP.

P.T



UNIT 6: DAIRY PRODUCTS, PROBIOTICS AND FOOD-BORNE DISEASES: 14 hrs

Fermented dairy products - yogurt, acidophilus milk, kefir, dahi and cheese, Probiotics, definition, examples and benefits. Food intoxication by Clostridium botulinum and Staphylococcus aureus Food infection by Salmonella and E.coli

PRACTICAL:

- Isolation microbes from spoiled foods- fruits,vegetables,milk etc
- Isolation and screening of microbes from cereal and cereal products.
- Quality assessment of milk by methylene blue test and Breed count method
- Estimation of lactic acid
- Observation of industrially important micro organisms
- Microbial fermentations estimation of Organic acid (Citric acid), Alcohol (Ethanol)
- Isolation and screening of amylase and protease producing microbes
- A visit to any educational institute/industry to see an industrial fermenter, and other downstream processing operations

SUGGESTED READINGS:

1. Hui YH, Meunier- Goddik L, Josephsen J, Nip WK, Stanfield PS (2004) Handbook of food and fermentation technology, CRC Press
2. Holzapfel W (2014) Advances in Fermented Foods and Beverages, Woodhead Publishing.
3. Yadav JS, Grover, S and Batish VK (1993) A comprehensive dair
4. Jay JM, Loessner MJ, Golden DA (2005) Modern Food Microbiology, 7th edition. Springer
5. Patel A.H. (1996). Industrial Microbiology. 1st edition, Macmillan India Limited
6. Okafor N. (2007). Modern Industrial Microbiology and Biotechnology. 1st edition. Bios Scientific Publishers Limited. USA
7. Waites M.J., Morgan N.L., Rockey J.S. and Higton G. (2001). Industrial Microbiology: An Introduction. 1st edition. Wiley – Blackwell
8. Glaze A.N. and Nikaido H. (1995). Microbial Biotechnology: Fundamentals of Applied Microbiology. 1st edition. W.H. Freeman and Company
9. Casida LE. (1991). Industrial Microbiology. 1st edition. Wiley Eastern Limited.
10. Crueger W and Crueger A. (2000). Biotechnology: A textbook of Industrial Microbiology. 2nd edition. Panima Publishing Co. New Delhi.
11. Stanbury PF, Whitaker A and Hall SJ. (2006). Principles of Fermentation Technology. 2nd edition, Elsevier Science Ltd. .


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OET 2.2 : COMPUTER FUNDAMENTALS

M.Sc Physics & M.Sc Chemists

Teaching: 4 Hrs./ Week

Credits: 04

Max Marks: 80, Cont. Assessments: 20

Total Teaching Hrs: 64

Preamble:

- To explore of basics of Computer Science, including evolution of computers, basic anatomy of computers, applications of computers.
- To understand the need and purpose of software's.

UNIT I

16Hrs

Evolution of Computers - Generations, Types of computers, Computer system characteristics, Basic components of a Digital Computer - Control unit, ALU, Input/Output functions and memory, Memory addressing capability of a CPU, Word length of a computer, processing speed of a computer, Computer Classification.

UNIT II

16Hrs

Input/Output Units:- Keyboard, Mouse, Trackball, Joystick, Digitizing tablet, Scanners, Digital Camera, MICR, CR, OMR, Bar-code Reader, Voice Recognition, Light pen, Touch Screen, Monitors and types of monitor -Digital, Analog, Size, Resolution, Refresh Rate, Dot Pitch, Video Standard - VGA, SVGA, XGA etc, Printers and types - Daisy wheel, Dot Matrix, Inkjet, Laser, Line Printer, Plotter, Sound Card and Speakers.

UNIT III

16Hrs

Memory - RAM, ROM, EPROM, PROM and other types of memory, Storage fundamentals - Primary Vs Secondary Data Storage, Various Storage Devices - Magnetic Tape, Magnetic Disks, Cartridge Tape, Hard Disk Drives, Floppy Disks (Winchester Disk), Optical Disks, CD, VCD, CD-R, CD-RW, Zip Drive, flash drives Video Disk, Blue Ray Disc, SD/MMC Memory cards, Physical structure of floppy & hard disk, drive naming conventions in PC.DVD, DVD-RW, USB Pen drive.

UNIT IV

16Hrs

Software and its Need, Types of Software - System software, Application software, System Software - Operating System, Utility Program, Algorithms, Flow Charts - Symbols, Rules for making Flow chart, Programming languages, Assemblers, Compilers and Interpreter, Computer Applications in Business. Introduction to Internet, Connecting to the Internet Hardware, Software and ISPs, Search Engines, Web Portals, Online Shopping, Email - Types of email, Compose and send a message. Reply to a message, Working with emails.

References:

1. Computer Fundamentals - B. Ram - New Age International Publishers
2. S.K.Basandra, "Computers Today", Galgotia Publications.
3. Computer Fundamentals - P. K. Sinha - BPB Publication.
4. PC Software - Shree Sai Prakashan, Meerut.

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OET 3.1: E-COMMERCE

M.Sc Physics & Chemistry
III Semester.

Unit I

Introduction to e-Commerce: Introduction, An Overview of e-Commerce - Cutting edge, e-Commerce Framework, Evolution of e-Commerce: History of e-Commerce, Advantages and Disadvantage of e-Commerce, Roadmap of e-Commerce in India.

Unit II

Network Infrastructure: Introduction, Network Infrastructure- An Overview, The Internet Hierarchy, Basic Blocks of e-Commerce, Networks layers and TCP/IP protocols, The Advantages of Internet, World Wide Web, e-Commerce Infrastructure: Introduction, e-commerce Infrastructure-An Overview, Hardware, Server Operating System, Software, Network Website.

Unit III

Managing the e-Enterprise: Introduction to e-Enterprise, Managing the e-Enterprise, e-business Enterprise, Comparison between Conventional Design and e-organisation, Organisation of Business in an e-Enterprise e-Commerce Process Models: Introduction, Business Models, e-business Models Based on the Relationship of Transaction Parties, e-commerce Sales Life Cycle (ESLC) Model.

Unit IV

Electronic Payment Systems: Electronic Payment Systems, Electronic Cash, Smart Cards and Electronic Payment Systems, Credit Card Based Electronic Payment Systems, Risks and Electronic Payment Systems, Electronic Data Interchange(EDI): The Meaning of EDI, History of EDI, EDI Working Concept, Implementation difficulties of EDI, Financial EDI, EDI and Internet, e-Marketing: The scope of e-Marketing, Internet Marketing Techniques


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INDIA AND INDIAN CONSTITUTION

Ability Enhancement Compulsory Courses (AECC)	
Course Title: INDIA AND INDIAN CONSTITUTION	
Total Contact Hours: 45	Course Credits: 3
No. of Teaching Hours/Week: 3	Duration of ESA/Exam: 2 Hours
Formative Assessment Marks: 40	Summative Assessment Marks: 60+40=100

Course Objective

The purpose of the course is to help students to learn and explain the journey of India as a republic. They will, through this paper learn to contextualise the depth of India as a nation with its diverse socio-political culture, its philosophical traditions, values and Ideals. It will give them knowledge to expound the breadth of freedom struggle in various parts of India, its significance in nation building and the sacrifices made both by its leaders and followers. It will help them to demonstrate their knowledge regarding the efforts made at working towards a constitution as India's conscience cherishing the values of Justice, Liberty, Equality and Fraternity. Consequently it will enable students to contextualise the powers and functions of various offices under the Constitution. It will help them determine the role and responsibilities of citizens as enshrined in the Constitution, offering insights in to the contributions of personalities like Gandhiji, Dr B.R.Ambedkar and Jawahar Lal Nehru, Bal Gangadhar Tilak, the values tolerance, equality of treatment, scientific secularism and swarajya and the processes of policymaking keeping national wellbeing in the forefront. This paper will enable students to illustrate how vibrant our Constitution is, how farsighted were its makers and how efficient are the various institutions that are functioning under it.

Learning outcomes

Upon completion of this course students will be able to—

- Explain the philosophy and the structure of the Constitution.
- Measure the powers, functions and limitations of various offices under the Constitution.
- Demonstrate the values, ideals and the role of Constitution in a democratic India.

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Unit	Contents of Course:	45 Hours
Unit-I	<p>Background to the study of Indian Constitution**</p> <p>Chapter 1: Philosophical and Political foundations of India: Dharma and Danda, Buddhist, liberal (Raja Rammohun Roy) and Subaltern (Ranajit Guha)* Colonial impact on Indian society,** Nationalist perspective (Swamy Vivekananda and Sri Aurobindo).</p> <p>Chapter 2: Political values and Ideals during freedom struggle: Non Violence, Tolerance, Satyagraha and Swadeshi (Gandhi), Swarajya (Tilak), Integral Humanism (Deen Dayal Upadhyay) and Voluntarism (Vinoba Bhave).</p> <p>Chapter 3: Political Contribution of Regional freedom struggle: Kittur Rani Chennamma, Hardekar Manjappa, Madikeri Peasants, Halagali Bedas.</p>	<p>6 Hours</p> <p>5 Hours</p> <p>4 Hours</p>
Unit-II	<p>Constitutional Development and its Philosophy</p> <p>Chapter- 4: Historical background of Constitutional development in India - Developments between 1857 to 1952 (only Acts during this period must be taught), Composition and debates of Constituent Assembly (in brief), working of committees.</p> <p>Chapter 5: Philosophy and features of Indian Constitution - Preamble*, Salient features**, Constitutionalism, Dr B.R. Ambedkar and Nehru's contribution in the making of the Constitution.</p> <p>Chapter- 6: Working of the Constitution - Fundamental Rights, Union-State and Inter-State Relations (Art. 263, Inter-State disputes and trade and commerce), important Amendments to the Constitution**, Parliamentary Committees* (Standing, Ad hoc and Departmental).</p>	<p>5 Hours</p> <p>5 Hours</p> <p>5 Hours</p>

Unit-III	Constitutional Institutions and Citizen's role	
	Chapter 7: Parliamentary and Constitutional Institutions: Legislature* (Upper and Lower house), Executive (composition and powers), Judiciary (High Court and Supreme Court, its composition and jurisdiction), Comptroller and Auditor General, Inter-State Council, Election Commission	6 Hours
	Chapter 8: Role and Responsibilities of Citizens under Indian Constitution: Concept of Citizenship, Citizenship Amendment Act, Fundamental Duties, Right to Information Act, Civil Society.*	4 Hours
	Chapter 9: Goals and Policies of National Development enshrined in the Constitution: Concept of National Development, Unity and Integrity of the nation, Goals of Educational Policies*, Role of teachers and students in Nation Building**.	5 Hours

(**Note-This is a compulsory, foundational and value additional course to be taught to students at the graduate level under NEP 2020. The paper is expected to impart the structure and functional aspects of constitution while giving them the background of a diverse country like India and the nuances of its social fabric and the why of such an elaborate constitution. The introductory chapter therefore is designed to familiarise students about their country and culture before they understand their constitution)

(Please note: The question paper pattern is indicative of the way a teacher needs to teach this paper. The pedagogical choice of a teacher helps to make an impact of his/her teaching on the student. Activity based and experiential teaching methods help student centric learning process - these are tips to make this paper more meaningful- the ultimate choice is left to the teacher)

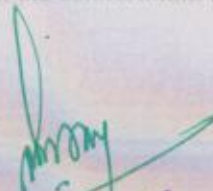
Exercise:

- Department can debate on the role of Constitution in the development of India.
- Students can empirically evidence the effectiveness of concepts like -Freedom, Equality, Justice, Rights and Duties by conducting empirical studies.
- Can invite experts to deliver special lectures on various provisions and amendments of the Constitution like the functioning of Election Commission, Article 246, 356 etc.

Important Notes:

Chapter 1:

- * These are introductory courses. Teachers should give a brief introduction to these for a better understanding of philosophical and political foundations of Indian society taking suggested thinkers as examples (Max 2hrs).
- ** Here teachers should briefly teach about the contributions and impact of British and Arabs as invaders, Mughal settlers (Max 2hrs).


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THE COURSE BA (ENGLISH) IN IV SEMESTER HAS TWO COURSES (COURSE 7&8) FOR 06 CREDITS: EACH COURSE HAS 03 CREDITS. BOTH THE COURSES ARE COMPULSORY.

COURSE-8 GENDER STUDIES (PART I)

Course	Type of Course	Theory /Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
08	DSCC	Theory	03	04	45hrs	2.30 hrs	40	60	100

COURSE OUTCOME (CO)

After completion of course, students will be able to:

1. Understand the concept of gender studies
2. Learn the basics of patriarchy, sex and gender and gynocentrism
3. Understand the significance of Gender as a discourse
4. Appreciate literature by women writers

COURSE 8: GENDER STUDIES (PART I)		Total Hrs:45
UNIT-I INTRODUCTION TO GENDER STUDIES		15hrs
Concepts and trends: Sex and Gender, Femininity, Body, Feminist Politics, Patriarchy, Masculinity, Discrimination, Gynocentrism, Dichotomy, Third Gender, Masculinity, Queer Studies etc.		
Two Essays <ul style="list-style-type: none"> • <i>Sexual Politics</i>-Kate Millet • <i>The Other Side of Silence</i>- Urvashi Butalia 		
UNIT-II REPRESENTATIVE WRITERS		15hrs
Four Short Stories of Representative Writers Savithri Bai Phule- <i>Savitribai and India's Conversation on Education</i> , Mahashweta Devi-- <i>Rudali</i> , Sudha Murthy- <i>Runa</i> , Sara Abubkar- <i>Breaking Ties</i> .		
UNIT-III REPRESENTATIVE TEXTS		15hrs

15.

Nine Indian Women Poets: An Anthology - Eunice D' Souza (Four Poems)

Kamala Das- *An Introduction*, MAMTA KALIA- *Positive Thinking*, TARA PATE- *Woman*, SUJATA BHATT- *A Different History*.

Novel/play/autobiography/biography/sketches/Diaries/Memoirs/Speeches

(Any One)

Down the Memory Lane by M Y Ghorpade

Dr. N. Ganapati
(Dr. N. Ganapati)

CHAIRMAN
Department of English
Sulbarga University
KALADHARA-385 186.

Principals
PRINCIPAL
L.V.D. College, RAICHUR-03.



Government of Karnataka
Model curriculum

Name of the Degree Program	: BA (EDUCATION)	Discipline Core	: EDUCATION
Total Credits for the Program	: 25	Year of implementation	: 2021-22

BA- Semester -IV

Course Title : WOMEN EDUCATION			
COURSE CODE	: OE-4(3) : EDU (OE): 4		
TOTAL CONTACT HOURS	: 42hrs	COURSE CREDIT	: 3
FORMATIVE ASSESMENT MARKS	: 40	SUMMATIVE ASSESMENT MARKS	: 60
MODEL SYLLABUS AUTHORS	: GUK : BOS	DURATION OF SE EXAM	: 2hrs

Course Outcome/LOCF	
On completion of the course, the student teacher will be able to :	42Hrs
<ul style="list-style-type: none">To know the Policy Perspectives and Committees and Commissions on Women EducationTo Explain the role of Indian thinkers towards Women EducationTo identify major constraints of Women Education and Women Empowerment	
OE-4(3) : EDU (OE) : 4	
Unit-I Policy Perspective, Committee and Commission on Women Education	14Hrs
<ul style="list-style-type: none">➤ Constitutional provision, NPE-1968, 1986, NEP-2020➤ Radhakrishnan, Mudaliar and Kothari Commission➤ Durgabai Deshmukh Committee, Hansraj Mehta Committee and Bhaktabatsalam Committee	
Unit-II Role of Indian Thinkers in Promoting Women Education	14Hrs
<ul style="list-style-type: none">➤ Rammohan Roy➤ Vidyasagar➤ M.K. Gandhi	
Unit-III Major Constraints of Women Education and Women Empowerment	14Hrs
<ul style="list-style-type: none">➤ Social – Psychological➤ Political –Economical➤ Role of Women empowerment in modern society in brief.	

Ca. Hls

Signature

GENDER AND POLITICS

Open Elective- OE- 3.1

Course Title: GENDER AND POLITICS	
Total Contact Hours: 45	Course Credits: 3
No. of Teaching Hours/Week: 3	Duration of ESA/Exam: 2 Hours
Formative Assessment Marks: 40	Summative Assessment Marks: 60+40=100

Course Objective:

The course provides an overview of political participation of women in general and specifically in India. It enables students to understand the issues related to women leadership, participation and governance and how they have progressively become integrated into political science to inform and shape contemporary social sciences. It helps in sensitizing the patriarchal society to improve the relationship between men and women removing the obstacles of exploitation, violation of her rights, bringing into focus the need for the education and empowerment.

Learning Outcomes:

At the end of the course the students shall -

- Answer how ideologies have shaped the women in politics
- Bring awareness of the relevance of gender issues in politics.
- Through discussions on women and governance understand the ground realities about politics in relation to women.

Unit	Contents of Course-OE-3.1	45 Hours
Unit-I	<p>Chapter-1: Defining Gender, Significance of Gender Studies, Difference between Gender Studies and Women Studies, Feminist Perspectives (with reference to India), Opportunities and Constraints (Party Choices of Candidates, Social Taboos and Stereotypes).</p> <p>Chapter-2: Gender Imbalance in Political Representation and Electoral Process, Gender Discrimination in Indian Politics -</p>	<p>15 Hours</p> <p><i>Gender</i></p>

	including LGBTQ, Feminist Critique of Politics. Chapter-3: Governance and Gender Structures, Gender Budgeting and Gender Issues in Governance.	Gender
Unit-II	Chapter-4: Gender and Empowerment Process: Education, Economic, Political and Socializing and sensitizing gender issues. Chapter-5: Gender Differentiation in Political Parties and Leadership, Challenging Gender Stereotypes in Socio-Political sphere. Chapter-6: Capacity Building and Role of Women in Karnataka Politics, Women Representation in Local Governments.	15 Hours
Unit- III	Chapter-7: Women and Poverty, Women and Health, Women and wealth creation, Violence against Women, Women and Armed Conflict. Chapter-8: Women and Literature, Women and the Media, Women and the Environment. Chapter-9: Women and Societal Challenges: Dowry, Domestic Violence, Girl Child - Programmes for Empowerment of Women, Educating children and socio-religious taboos including patriarchy.	15 Hours Gender.

Exercise:

- Conduct one day workshop and make an assessment of role of women in politics.
- Collage making, short films and video watching can be done by the students and measures can be discussed to minimise the gender gap.
- Students can make field visits to understand the persistent of patriarchal values and traditions.


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೪. ಧೂಮಿ ಕುರಿತ
• ಎಚ್. ಟಿ. ಪೋತೆ

೫. ದ್ಯಾವ ಪೃಥ್ವಿ
• ಜನಪದ ತ್ರಿಪದಿಗಳು

ಘಟಕ-೨
• ಗೋಕಾಕ

III

ವೈಜ್ಞಾನಿಕ ಮನೋಧರ್ಮ

೧. ವೈಯಕ್ತಿಕ ಆತ್ಮ : ವೈಯಕ್ತಿಕ ಕರ್ಮ
• ಡಾ. ಕೆ. ಶಿವರಾಮ ಕಾರಂತ

೨. ವಿಜ್ಞಾನ ಮತ್ತು ಅಧ್ಯಾತ್ಮ
• ಡಾ. ಎ.ಪಿ.ಜೆ. ಅಬ್ದುಲ್ ಕಲಾಂ

೩. ಮೇಲಿಕ್ಕೂರಿ
• ನೇಮಿಚಂದ್ರ

೪. ನಿಮ್ಮ ಆರೋಗ್ಯವನ್ನು ಕಾಪಾಡಿಕೊಳ್ಳಿ
• ಡಾ. ಪಿ.ಎಸ್. ಶಂಕರ

ಘಟಕ-೪

IV ಜೀವನ ಚರಿತ್ರೆ

೧. ಸಾಲುಮರದ ತಿಮ್ಮಕ್ಕ
• ಡಾ. ನೆಲಿಕಟ್ಟೆ ಎನ್. ಸಿದ್ದೇಶ್

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B.D.C - 1st Sem

ಘಟಕ-೧ : ಕನ್ನಡ ನಾಡು-ನುಡಿ ಚಿಂತನೆ

ಕನ್ನಡ ಡಿಂಡಿಮ

• ಕುವೆಂಪು

ಬಾರಿಸು ಕನ್ನಡ ಡಿಂಡಿಮವ
ಓ ಕರ್ನಾಟಕ ಹೃದಯ ಶಿವ!

ಸತ್ತಂತಿಹರನು ಬಡಿದೆಚ್ಚರಿಸು;
ಕಚ್ಚಾಡುವರನು ಕೂಡಿಸಿ ಒಲಿಸು.
ಹೊಟ್ಟೆಯ ಕಿಚ್ಚಿಗೆ ಕಣ್ಣೀರ ಸುರಿಸು;
ಒಟ್ಟಿಗೆ ಬಾಳುವ ತೆರದಲಿ ಹರಸು!

ಬಾರಿಸು ಕನ್ನಡ ಡಿಂಡಿಮವ
ಓ ಕರ್ನಾಟಕ ಹೃದಯ ಶಿವ!

ಕ್ಷಯನೆ ಶಿವೇತರ ಕೃತಿ ಕೃತಿಯಲ್ಲಿ
ಮೂಡಲಿ ಮಂಗಳ ಮತಿ ಮತಿಯಲ್ಲಿ;
ಕವಿ ಬುಷಿ ಸಂತರ ಆದರ್ಶದಲಿ
ಸರ್ವೋದಯವಾಗಲಿ ಸರ್ವರಲಿ!

ಬಾರಿಸು ಕನ್ನಡ ಡಿಂಡಿಮವ
ಓ ಕರ್ನಾಟಕ ಹೃದಯ ಶಿವ!

Handwritten signature

ನಾಡು ನುಡಿ ಸೇವೆ ಅಮೂಲ್ಯ. ತಿಮ್ಮಕ್ಕನ ಸಾಲುಮರದ ನೆಟ್ಟ ಬಗೆ ಆಕೆಯ ಜೀವನ -ಪರಿಸರ ಕುಟುಂಬ ಹೇಳುತ್ತಾರೆ- ಆಕೆಯ ಎಲ್ಲಾ ವಿವರ ದಾಖಲಾಗಿವೆ. ಪರಿಸರದ ಕೂಸು ಮರ ಇದಕ್ಕೆ ತಿಮ್ಮಕ್ಕ ಪೂರಕವೆಂದು ಇಲ್ಲಿ ದಾಖಲಿಸಿದ್ದಾರೆ.

ಈ 'ವಿಜ್ಞಾನ ಗಂಗಾ-೧' ಇದೊಂದು ಸಂಕೀರ್ಣವಾದ ಪಠ್ಯ. ಕಾವ್ಯ, ಕತೆ, ಲೇಖನ, ಜೀವಚರಿತ್ರೆಗಳ ಮೂಲಕ ನಾಲ್ಕು ಘಟಕಗಳು, ಪೂರಕವಾಗಿ ಕಾವ್ಯ ನಿರ್ವಹಿಸಿದೆ. ಅವನ್ನು ಇಲ್ಲಿ ದಾಖಲು ಮಾಡಲಾಗಿದೆ. ಈ ವೈಜ್ಞಾನಿಕ-ಸಂಸ್ಕೃತಿಯ ದ್ಯೋತಕತೆ ಪಠ್ಯ ನಿರೂಪಿತವಾಗಿದೆ.

ಡಾ. ಗವಿಸಿದ್ದಪ್ಪ ಎಚ್. ಪಾಟೀಲ



ಪರಿವಿಡಿ

ಪ್ರಕಾಶಕರ ಮಾತು
ನಿರ್ದೇಶಕರ ಮಾತು
ಮುನ್ನುಡಿ
ಸಂಪಾದಕರ ಮಾತು
ಪ್ರಸ್ತಾವನೆ
ಘಟಕ-೧

I ಕನ್ನಡ ನಾಡು-ನುಡಿ ಚಿಂತನೆ

- ೧ ಕನ್ನಡ ಡಿಂಡಿಮ
 - ಕುವೆಂಪು
- ೨ ಹೊತ್ತಿತೋ ಹೊತ್ತಿತು
 - ಕಾವ್ಯಾನಂದ
- ೩ ಕನ್ನಡದ ಸ್ತೂರ್ತಿ
 - ಪಿ. ಲಂಕೇಶ
- ೪ ಚನ್ನಬಸವಪಟ್ಟದೇವರ ಕನ್ನಡ ಕಟ್ಟುವ ಕೆಲಸಗಳು
 - ಡಾ. ಗವಿಸಿದ್ದಪ್ಪ ಎಚ್. ಪಾಟೀಲ
- ೫ ಕರ್ನಾಟಕ ವಿಕೀಕರಣ
 - ಡಾ. ರಾಜಶೇಖರ ಮಠವತಿ

ಘಟಕ-೨

II ಭೂಮಿ *Emilia*

- ೧ ಕುಂಕುಮ ಭೂಮಿ
 - ಕೆ.ಎಸ್.ಎನ್.
- ೨ ಇರುವುದೊಂದೇ ಭೂಮಿ
 - ನಾಗೇಶ ಹೆಗಡೆ



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ಸಂಪಾದಕರ ನುಡಿ ಮತ್ತು ಪ್ರಸ್ತಾವನೆ

ಈ ಹೊತ್ತಿನ ಜಾಗತೀಕರಣದ ಹೊಸ ವಿದ್ಯಮಾನಗಳು ನಮ್ಮ ತಿಳುವಳಿಕೆಯನ್ನು ಪರಿವರ್ತನೆಯ ಕಡೆಗೆ ಮಾಡಿದೆ. ಜೊತೆಗೆ ಹೊಸ ಜ್ಞಾನ ಶಿಕ್ಷಣದ ವಿವೇಕಪೂರ್ಣ ವಿನಿಯೋಗಕ್ಕೂ ಒತ್ತಾಯಿಸುತ್ತಿರುವುದು ಕೂಡ ಹೌದು. ಹೊಸ ಜ್ಞಾನದ ಬೆಳಕಿನಲ್ಲಿ ನಮ್ಮ ಬದುಕನ್ನು ರೂಪಿಸುವಂಥ ಶಿಕ್ಷಣ ಒದಗಿಸಿಕೊಡುವುದು ಸರ್ಕಾರ, ವಿಶ್ವವಿದ್ಯಾಲಯಗಳ ಹೊಣೆಯಾಗಿದೆ. ಅಂತೆಯೇ ಸರ್ಕಾರ ರೂಪಿಸಿದ ರಾಷ್ಟ್ರೀಯ ಹೊಸ ಶಿಕ್ಷಣ ನೀತಿ ೨೦೨೨ರ ಅನ್ವಯ ಪಠ್ಯವನ್ನು ನಿರ್ಮಿಸುವುದಕ್ಕೆ ಮುಂದಾಗಿರುವುದು. ಆದ್ದರಿಂದ ಭಾಷೆ, ಸಾಹಿತ್ಯವನ್ನು ಅನ್ಯ ಜ್ಞಾನ ಶಿಕ್ಷಣಗಳ ನೆಲೆಯಲ್ಲಿ ಪರಿಭಾಷಿಸುವ ಪಠ್ಯ ಇದಾಗಿರುವುದು.

ಪ್ರಮುಖವಾಗಿ ಪಠ್ಯವನ್ನು ನಾಲ್ಕು ಘಟಕಗಳಲ್ಲಿ ವರ್ಗೀಕರಿಸಿದ್ದು ಘಟಕ ಒಂದು ರಾಷ್ಟ್ರೀಯತೆ, ಘಟಕ ಎರಡು ಕೃಷಿ, ಘಟಕ ಮೂರು ಕ್ರೀಡೆ ಹಾಗೂ ಘಟಕ ನಾಲ್ಕು ಸಂಕೀರ್ಣವನ್ನು ಹೊಂದಿದೆ. ರಾಷ್ಟ್ರೀಯತೆಯಲ್ಲಿ ಜನಪದ ರಾವಣಿ ಹಲಗಲಿ ಬೇಡರು, ಕುವೆಂಪು ಅವರ ಸ್ವಾತಂತ್ರ್ಯೋತ್ಸವದ ಮಹಾಪ್ರಾಥಮ್ಯ, ಬೇಂದ್ರೆಯವರ ನರಬಲಿ, ಸಿದ್ಧಯ್ಯ ಮಠಾಣಿಕರ ರಾಷ್ಟ್ರ ರಾಜೀಕರಣ, ಸಿದ್ಧಲಿಂಗಯ್ಯನವರ ಡಾ. ಅಂಬೇಡ್ಕರ್ ಮತ್ತು ಡಾ. ಶಶಿಕಲಾ ವಸ್ತದೇ ಮತ್ತೆ ಪಂದರಾ ಬಂದಾಗ ಕವಿತೆಗಳನ್ನು ತೀಜ್ಯಿಯವರ ಸಹಜ ಕೃಷಿ, ದೇವನೂರರ ಬೇಸಾಯದಲಿ ಬದುಕುಳಿಯಲಿ, ಅನಂದ ತೀರ್ಥ ಜ್ಯಾಟಿಯವರ ಶೂನ್ಯ ಬಂಡವಾಳ ಕೃಷಿ ಮತ್ತು ಡಾ. ವಸುಂಧರಾ ಭೂಪತಿಯವರ ಸೊಪ್ಪಿನ ಔಷಧೀಯ ಗುಣಗಳು, ಘಟಕ ಎರಡು ಡಾ. ಹನಂತ ಜಂಗಿಯವರ ಜನಪದ ಕ್ರೀಡೆಗಳು, ಡಾ. ಎಸ್.ಎಸ್. ಮುಲಗಿಯವರ ಓಲಂಪಿಕ್ ಮತ್ತು ಕ್ಯಾರಾಟಲಂಪಿಕ್ ಕ್ರೀಡೆಗಳು, ಮುದೇನೂರರ ಭೀಮಾ ನದಿಯ ಸಂಸ್ಕೃತಿ, ಕಥನ, ಡಾ. ಶಾಂತರಾಜು ಎಚ್.ವಿ. ಅವರ ಸಂಸ್ಕೃತಿ ಒಂದು ಚಿಂತನೆ, ಪತ್ರಕರ್ತರಾದ ಪ್ರವೀಣ ಕುಲಕರ್ಣಿಯವರ ಛಾಂತ್ಯವೆಂದರೆ, ಅಲ್ಲದೆ, ಡಾ. ಜಿ.ಬಿ. ವಿನಾಯಕವರ ಮಲ್ಲಪ್ಪ ಹರಿ ಹರಿ ಹಗ್ಗದ, ಡಾ. ಜ್ಯೋತಿ ಕುಲಕರ್ಣಿಯವರ ಜಲದ ಮಂಟಪದ ಮೇಲೆ, ದಾದಾಚಾರ್ ಜೈಮನಾರ ನೀಲ ಕುರಿಂಜಿ, ಪದ್ಧಿನಿ ನಾಗರಾಜ ಅವರ ಮಲ್ಲಿಗೆ ಮತ್ತು ಕಸ ಸಣ್ಣ ಕಥೆಗಳು ಇದ್ದು ಇವು ನಮ್ಮ ಜ್ಞಾನ ವಿಸ್ತಾರಗೊಳಿಸುವಲ್ಲಿ ಪ್ರಮುಖವಾಗಿದ್ದು ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಉಪಯುಕ್ತವಾಗಬಲ್ಲವು ಎಂದು ಭಾವಿಸಿದ್ದೇನೆ.

ಸಕಾಲದಲ್ಲಿ ತಮ್ಮ ಮೌಲಿಕ ಲೇಖನಗಳನ್ನು ನೀಡಿದ ಎಲ್ಲಾ ಹಿರಿಯ ಲೇಖಕಿಗಳು, ವಿಶ್ವವಿದ್ಯಾಲಯಕ್ಕೆ ಶ್ರೀ ಸಿದ್ಧಲಿಂಗೇಶ್ವರ ಪ್ರಕಾಶನದ ಮಾಲಿಕರು ಶ್ರೀ ಬಸವರಾಜ ಕೊನೇಕ ಅವರಿಗೆ, ಸುಂದರವಾಗಿ ಡಿ.ಟಿ.ಪಿ. ಮಾಡಿದ ಶ್ರೀ ಪ್ರಕಾಶ ದೇಶಕಲ್ ಅವರಿಗೆ, ಎಲ್ಲ ಕನ್ನಡ ಅಧ್ಯಾಪಕರಿಗೆ, ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ನನ್ನ ಅನಂತ ಧನ್ಯವಾದಗಳು.

ಡಾ. ಶ್ರೀಶೈಲ ನಾಗರಾಜ



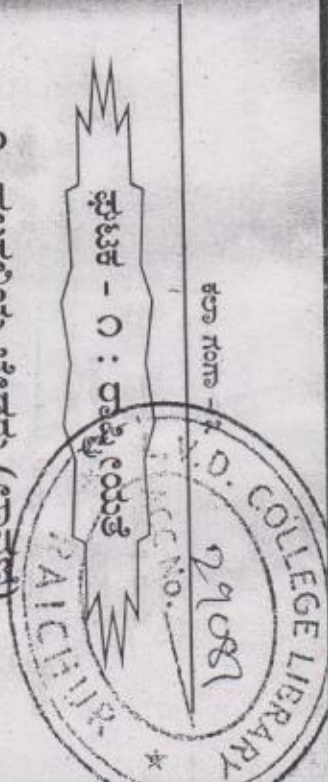
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 - ೨೭ ೦೧. ಶೂನ್ಯ ಬಂಡವಾಳದ ಕೃಷಿ (ಲೇಖನ) - ಆನಂದ ತೀರ್ಥ ಪ್ರಾಚಾರ್ಯ
 - ೨೮ ೦೨. ಸೊಪ್ಪಿನ ಔಷಧಿಯ ಗುಣಗಳು (ಲೇಖನ) - ಮನುಧರಣ ಭೂಪತಿ
- ಘಟಕ - ೨ : ಕ್ರೀಡೆ**
- ೨೯ ೦೩. ಜನಪದ ಕ್ರೀಡೆಗಳು (ಲೇಖನ) - ಹನುಮಂತ ಜಂಗಿ
 - ೩೦ ೦೪. ಓಲಂಪಿಕ್ ಕ್ರೀಡೆಗಳು ಮತ್ತು ಪ್ರಾಚೀನ ಓಲಂಪಿಕ್ ಕ್ರೀಡೆಗಳು (ಲೇಖನ) - ಪ್ರೊ. ಎಸ್.ಎನ್. ಮೂಲಗಿ
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- ಘಟಕ - ೪ : ಸಂಕೀರ್ಣ**
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 - ೩೩ ೦೭. ಮಲ್ಲಪ್ಪ ಓರಿ ಓರಿ ಹಗ್ಗದ (ಕಥೆ) - ಜಿ.ಬಿ. ವಿನಾಯಕ
 - ೩೪ ೦೮. ಜಲದ ಮಂಟಪದ ಮೇಲೆ (ಕಥೆ) - ಜ್ಯೋತಿ ಕುಲಕರ್ಣಿ
 - ೩೫ ೦೯. ನೀಲ ಕುರಿಂಜಿ (ಕಥೆ) - ದಾಸರಾಜ ಶೈಲಮನ್
 - ೩೬ ೧೦. ಸಂಸ್ಕೃತಿ : ಓಂದು ಚಿಂತನೆ (ಲೇಖನ) - (ಲೇ) ಶಾಂತರಾಜ ಎಚ್.ವಿ.
 - ೩೭ ೧೧. ಮಲ್ಲಿಗೆ ಮತ್ತು ಕಪ್ಪ (ಕಥೆ) - ಪದ್ಮಿನಿ ನಾಗರಾಜ
 - ೩೮ ೧೨. ಭಾರತವೆಂದರೆ (ಲೇಖನ) - ಪ್ರವೀಣ ಕುಲಕರ್ಣಿ



೧. ಹಲಗಲಿಯ ಬೇಡರು (ಲಾವಣಿ)

೧ನೇ ನುಡಿ
೨ (ಸಂ.) ಕ್ಯಾತನಪಳ್ಳಿ ರಾಮಣ್ಣಿ

ವಿಲಾಸಿಯಿಂದ ಹುಕುಮ ಕಳವಿದರ ಕುಂಪಣ ಸರಕಾರಾ ಎಲ್ಲ ಜನರನಾ ಕರಿಸಿ ಜೋರಿ ಮಾಡಿ ಕರಬೇಕೆ ಹತ್ತಾರಾ ಕೆತ್ತಿ ಕಟಾಂ ಕೈ-ಚೂರಿ ಬಾಕು ಗುರ್ಡಿ ಸುರಾಯಾ ಚಿತ್ರಾ ಬಾಲಿಯ ಬರ್ಚಿ ಬುಕ್ಕುಗತ್ತಿ ನೋಡ ಬಾಣಬಿಲ್ವಿನವರಾ ಪಟಾಕೆ ಒಬ್ಬ ಕರುಲಿ ತೇಗಾ ಬಾಪಗೊಡ್ಡಿ ಶನ್ಮು ತೋಪ್ಪು ತುಬಾಕಿ ಹೊಡಪ್ಪು ಮದ್ದು ಗುಂಡ ಬಡಬತ್ತಾಡಂ ಚೂರಾ ಮುಚ್ಚಿ ಇಟ್ಟವರಿಗೆ ಮೂರು ಮರ್ಪದ ಬೇಡಿ ಹಾಕಂ ಪೂರಾ ಕೂಡದ ದಿಟಾಯಿ ಮಾಡಿದವರನಾ ಕಡದ ಹಾಕಂ ತಾರಾ || ಚಾಲ ||

ಬೇಡಿದಾ ಕ್ಲೋಕೆ ತಾವು ತಂದು
ಕೊಡತಾರ ಓಡಿಹಿಡಿರ್ ಎಂದು
ವತ್ತೆ ಕೊಡತೇವಾ ಆನರೊ ವೊಂದ್ ಒಂದು
ತಂದು ಕೊಡತಾರ ತಮ್ಮ ಕುಸಲಂದು
ಬಂದಿತು ಹುಕುಮ ಹೋಗ್ ಎಂದು
ದಣ್ಣರ ಸಾರಿದರ ಮುಂದು

೧

PRINCIPAL
Y.D. College, Raichur-03

ಸಂಪಾದಕರ ಮಾತು

ಕಲಾ ಗಂಗಾ - ೨ ಬಿ.ಎ/ಬಿ.ಎಚ್.ಎ/ಬಿ.ಪಿ.ಎ/ಬಿ.ಎಸ್ಸಿ.ಎ/ಬಿ.ಎ. ಮ್ಯೂಜಿಕ್ ವಿರತನೆಯ ಸಮಿಸ್ಥಾನ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ನಿಗದಿಪಡಿಸಲಾದ ಸಾಮಾನ್ಯ (ಬೇಸಿಕ್) ಪಠ್ಯಪುಸ್ತಕ. ರಾಷ್ಟ್ರೀಯ-ಶಿಕ್ಷಣ ನೀತಿ-೨೦೨೦ರ ಅನುಗುಣವಾಗಿ ಇದನ್ನು ಸಿದ್ಧಪಡಿಸಲಾಗಿದೆ. ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಬೆರತನತೀಲತೆಗೆ ನೆರವಾಗುವಂತೆ ಪಠ್ಯಕ್ರಮದ ಸ್ವರೂಪವನ್ನು ರೂಪಿಸಲಾಗಿದೆ. ಇಲ್ಲಿನ ಪಠ್ಯಗಳನ್ನು ಓದುವ ಮೂಲಕ ಸ್ವತಂತ್ರ ಅಭಿಲೇಷೆ, ಪ್ರಜಾಂಕಿತ, ಸೂಕ್ತ ಒಳನೋಟಗಳನ್ನು ವಿದ್ಯಾರ್ಥಿಗಳು ಬೆಳೆಸಿಕೊಳ್ಳುತ್ತಾರೆಂಬುದು ಪಠ್ಯಪುಸ್ತಕ ರಚನಾ ಸಮಿತಿಯ ನಂಬಿಕೆ. ಕಲಿಕೆಯು ನಮ್ಮ ಲೋಕದ್ವಿಷ್ಟಿಗಳನ್ನು ವಿಸ್ತರಿಸುವಂತಿರಬೇಕು. ನಾವು ಕಾಣುತ್ತಿರುವ ಜಗತ್ತನ್ನು ಹೊಸ ನೆಲೆಯಲ್ಲಿ ಪರಿಚಯಿಸಬೇಕು. ಬದುಕಿನ ವಿವಿಧ ಆಯಾಮಗಳನ್ನು ಒಳಗೊಳ್ಳುವಲ್ಲಿ ನೆರವು ನೀಡಬೇಕು. ಇಲ್ಲಿನ ವಿವಿಧ ಲೇಖಕರ ಬರಹಗಳಿಗೆ ಅವನ್ನು ಆಗುವಂತಿರುವ ಶಕ್ತಿಯಿದೆ. ಒಟ್ಟು ನಾಲ್ಕು ಘಟಕಗಳಲ್ಲಿರುವ ಇಲ್ಲಿನ ಬರಹಗಳು ಜಾಗೃತಕರಣ, ಸಮಾಜ, ತ್ರೀತಿ ಮತ್ತು ಆತ್ಮಕಥೆಯ ಆಯ್ದು ಭಾಗಗಳನ್ನು ಒಳಗೊಂಡಿವೆ. ಮೊದಲನೇ ಘಟಕದಲ್ಲಿ ಲೇಖನಗಳನ್ನೂ, ಎರಡನೇ ಘಟಕದಲ್ಲಿ ಕಥೆಗಳನ್ನೂ, ಮೂರನೇ ಘಟಕದಲ್ಲಿ ಸಂಸ್ಕೃತಿ ಚಿಂತನೆಯ ಬರಹಗಳನ್ನೂ ಮತ್ತು ನಾಲ್ಕನೆಯ ಘಟಕದಲ್ಲಿ ಬಸವರಾಜ ಕಟ್ಟೀಮನಿ ಅವರ ಆತ್ಮಕಥೆಯ ಆಯ್ದು ಭಾಗಗಳನ್ನು ಇಡಲಾಗಿದೆ. ಈ ನಾಲ್ಕು ಘಟಕಗಳಲ್ಲಿಯೂ ಬರಹಗಳನ್ನು ಸೀಮಿತ ಜೋಡಿಸಲ್ಪಡುವ ಒಂದೇ ರೀತಿಯಲ್ಲಿ ಇಲ್ಲಿನ ಎಲ್ಲಾ ಲೇಖನಗಳ ಬರಹಗಾರರಿಗೆ ಮತ್ತು ಅನುವಾದಕರಿಗೆ ಕೃತಜ್ಞತೆಗಳು. ಈ ಬರಹಗಳು ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಸಂಕೋಷವನ್ನೂ ಮತ್ತು ತಿಳುವಳಿಯನ್ನೂ ಒಟ್ಟಿಗೆ ನೀಡಿದರೆ ನಮ್ಮ ಶ್ರಮ ಸಾರ್ಥಕ. ಇಂಥದ್ದಲ್ಲ ಎಂದು ಪಠ್ಯ ಪುಸ್ತಕವನ್ನು ರೂಪಿಸಲು ಕಾರಣರಾದ ಕನ್ನಡ ಅಧ್ಯಯನ ಸಂಸ್ಥೆಯ ನಿರ್ದೇಶಕರಾದ ಪ್ರೊ ಎಚ್.ಪಿ. ಪ್ಲೇತೆ ಅವರಿಗೂ ಮತ್ತು ಕನ್ನಡ ಅಧ್ಯಯನ ಮಂಡಳಿಯ ಇತರ ಸದಸ್ಯರಿಗೂ ಕೃತಜ್ಞನಾಗಿಯೇ. ಗುಲಬರ್ಗಾ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಪತಿಗಳಾದ ಪ್ರೊ.ದಯಾನಂದ ಅಗಸರ, ಕುಲಸಚಿವರಾದ ಶ್ರೀ ಶರಣಬಸಪ್ಪ ಕೋಟಪ್ಪಿಗೋಳ ಅವರ ಸಹಕಾರಕ್ಕೆ ವಂದನೆ. ಪ್ರಕಾಶಕರಾದ ಶ್ರೀ ಬಸವರಾಜ ಕೋನಕೆ ಅವರ ಕಾರ್ಯವನ್ನು ಮರೆಯಲಾಗದು. ಇಲ್ಲಿನ ಲೇಖನಗಳನ್ನು ಪುಟಕೊಟ್ಟ ಪ್ರಿಯ ವಿದ್ಯಾರ್ಥಿ ಮಿತ್ರರಾದ ಮಹಾಂತೇಶ್ ಪಾಟೀಲ್, ಸಂಗನಗೌಡ ಹಿರೇಗೌಡ, ಸಂಗಪ್ಪ ತೊಡಿ, ಪ್ರದೀಪ್ ಆರ್. ರವೀಂದ್ರ ಕತ್ತಿ ಅವರಿಗೆ ವಿಶೇಷ ತ್ರಿಶಿತಿಯನ್ನು ಹೇಳುವುದು ನನ್ನ ಕರ್ತವ್ಯ.

ಡಾ. ವಿಕ್ರಮ ವಿಶಾಜಿ
ಕನ್ನಡ ವಿಭಾಗ, ಕರ್ನಾಟಕ ಕೇಂದ್ರೀಯ ವಿಶ್ವವಿದ್ಯಾಲಯ
ಕಲಬುರಗಿ

B.A. H. N. SEM
Kannara



ಸಂಪಾದಕರ ಮಾತು

- ಘಟಕ - ಒಂದು: ಜಾಗೃತಕರಣ (ಲೇಖನ ರಚನೆಯ)
1. ಜಾಗೃತಕರಣದ ಪಾಠ್ಯಪುಸ್ತಕ - ಬರಗೊಳ್ಳುವ ಬೆಂಗಳೂರು
 2. ಜಾನಪದ ಮತ್ತು ಜಾಗೃತಕರಣ - ಮೊಗ್ಗೇ ಗಣೇಶ್
 3. ಜಾಗೃತಕರಣ ಮತ್ತು ಮಹಿಳೆ - ಅಮೃತಾ ಕಟ್ಟಿಕೆ
 4. ಜಾಗೃತಕರಣ ಮತ್ತು ಕೆ.ಗೌಡ ಯಾರು? - ದರ್ಶನಾಜಿ ನನದುರ್ಗ

ಘಟಕ - ಎರಡು: ಸಮಾಜ (ಕಥಾ ಸಂಚಯ) :

1. ನೀಲೋಗ್ಗಾ ಗುರುಪಾದ ಮತ್ತು ಒಂದು ದೋಷಿಯ - ಶಾಂತರಸ
2. ಶಿವ ಮತ್ತು ರಿಕ್ತಾ - ನೀತಾ ನಾಗಭೋಷಣ
3. ಜಾಂಬುರು ಬಂದುದು - ದೇವನೂರು ಮಹಾದೇವ
4. ಎಲುಗನಂಬ ಕೊಡಚನೂ ಚಪ್ಪಡನಂಬ ಪಂದಿಯೂ -ಕುಂ.ವೀರಭದ್ರಪ್ಪ
5. ತಮಧಂದ ಕೇಡು - ಅಮರೇಶ ನುಗಡೋಣಿ

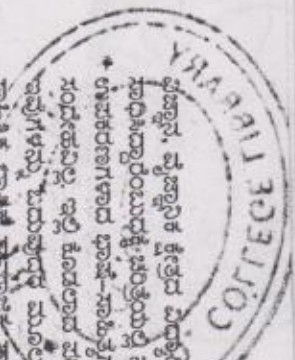
ಘಟಕ - ಮೂರು: ತ್ರೀತಿ (ಸಂಸ್ಕೃತಿ ಸಂಚಯ) :

1. ಬುದ್ಧನ ಜೀವನ ಮಾರ್ಗ - ಬಿ.ಆರ್.ಅಂಜೇದ್ದಾರ್. 00೨
- ಅನು: ಜಗದೀಶ್ ಕೋಪ್ಪ
2. ಕೌಂಟ್ ಲಿಯೋ ಟಾಲ್ಸ್ತಾಯ್ - ಮಹಾತ್ಮಾ ಗಾಂಧೀಜಿ. 00೯
- ಅನು: ಎಸ್. ಸೇತೂರಾವ್ 00೬
3. ಮೋಕ್ಷೆ ಹುಡುಕುತ್ತ ತ್ರೀತಿಯ ಬಂಧನದಲ್ಲಿ - ಒ.ಲಂಕೇಶ್ 0೨೦
4. ತ್ರೀತಿ ಒಂದು ಕಲೆಯು? - ಎರಿಕ್ ಫ್ರಾಂ. 0೨೦
- ಅನು: ಕೆ.ವಿ. ನಾರಾಯಣ, ಎಚ್.ಎಸ್. ರಾಘವೇಂದ್ರರಾವ್
5. ಅಕ್ಕಮಹಾದೇವಿ 'ಪ್ರೇಮ ಮತ್ತು ಕಾಮದ ಸಂಘರ್ಷ' ಹಾಗೂ ಅನುಭಾವದ ಆಶಯ' - ಬಸವರಾಜ ಕಟ್ಟೀಮನಿ 0೨೫

ಘಟಕ - ನಾಲ್ಕು: ಸಂಕೀರ್ಣ (ಆತ್ಮಕಥಾ ಸಂಚಯ)

1. ಕಾದಂಬರಿಕಾರನ ಕಥೆ (ಆಯ್ದು ಭಾಗ) - ಬಸವರಾಜ ಕಟ್ಟೀಮನಿ 0೩೯
- ಅನುಬಂಧ 0೯೮
- * ಲೇಖಕರ ಮತ್ತು ಪಠ್ಯ ಪಂಚಯ

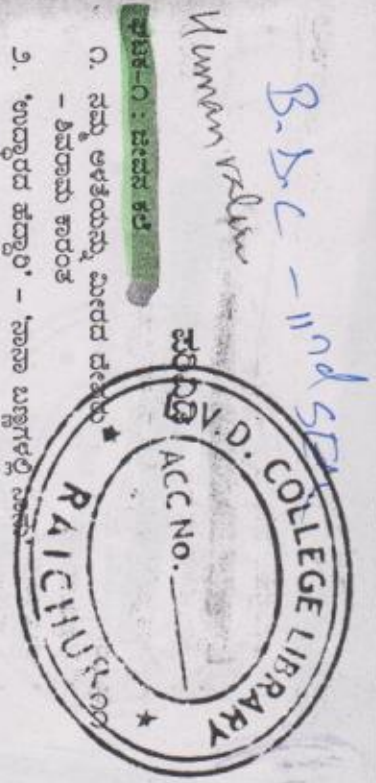
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ವಿಜ್ಞಾನ, ವೈಜ್ಞಾನಿಕ ಕ್ಷೇತ್ರದ ವಿದ್ಯಾರ್ಥಿಗಳು ಆಯಾ ರಂಗಗಳಲ್ಲಿ ಕಾರ್ಯಕ್ರಮಗಳನ್ನು ಯಶಸ್ವಿಯಾಗಿ ನಡೆಸುವುದರಲ್ಲಿ ಸಹಾಯಕವಾಗಿ ನಿಲ್ಲುವುದು ಉದ್ದೇಶವಾಗಿದೆ. ಅಧ್ಯಯನ-ಸಂವಹನದ ಉದ್ದೇಶಗಳಾದ ಭಾಷೆ-ಸಾಹಿತ್ಯಗಳು ಪ್ರಾಂಶುಪಾಲರು ಉನ್ನತೀಕರಿಸುವುದರಲ್ಲಿ ಸಂದೇಹವಿಲ್ಲ. ಇಲ್ಲಿ ಕೊಡಲಾದ ಪಠ್ಯಗಳನ್ನೂ ಕೆಲವು ಕೆಲವು ಪುಸ್ತಕಗಳ ತುಣುಕುಗಳನ್ನು ಇವುಗಳನ್ನು ಓದುವುದರ ಮೂಲಕ ವಿಜ್ಞಾನದ ವಿದ್ಯಾರ್ಥಿಗಳು ಮುಂದಿನ ದಿನಗಳಲ್ಲಿ ಸಾಹಿತ್ಯ, ಭಾಷೆ, ಸಮಾಜಿಕ, ಸಾಂಸ್ಕೃತಿಕ, ಸೈದ್ಧಾಂತಿಕ, ಆಧುನಿಕಗಳನ್ನು ಬೆಳೆಸಿಕೊಂಡು ಪಠ್ಯಕ್ರಮದ ಮಹತ್ವವಾಗಿಯೂ ಕನ್ನಡ ಸಾಹಿತ್ಯವನ್ನು ಓದಲಿ ಎಂಬ ಬಲವಾದ ಅಭಿಪ್ರಾಯ ಇಲ್ಲಿದೆ.

ಮೇಲ್ಕಂಡವು ಎಲ್ಲ ಪಠ್ಯಗಳನ್ನು ಸೂಚಿಸಿದವರು ಈಗಿನ ಮುಖ್ಯಸ್ಥರು ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಮಂಡಳಿಯ ಅಧ್ಯಕ್ಷರು ಆದ ಪ್ರೊ. ಎಚ್.ಟಿ. ಪೋತೆಯವರು ಮತ್ತು ಅದರ ಸದಸ್ಯರು, ಇವರಲ್ಲೊಬ್ಬರೂ ನನ್ನ ಅನಂತ ವಂದನೆಗಳು. ಜೊತೆಗೆ ಇಂತಹ ಉತ್ತಮ ಕೆಲಸದಲ್ಲಿ ನನ್ನನ್ನು ಭಾಗಿಯಾಗಿಸಿದ್ದಕ್ಕಾಗಿ ನಾನು ಅವರಿಗೆ ಕೃತಜ್ಞತೆಗಳನ್ನು ಸಲ್ಲಿಸುತ್ತೇನೆ. ಅದೇ ರೀತಿ ಗೌರವಾರ್ಥಿ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಗೌರವಾನ್ವಿತ ಉಪಕುಲಪತಿಗಳಾದ ಪ್ರೊ. ದಯಾನಂದ ಅಗಸರ ಇವರಿಗೂ ಮತ್ತು ಕುಲಸಚಿವರಾದ ಶ್ರೀ ಶರಣಬಸವ ಕೋಟಪ್ಪಗೋಳ ಇವರಿಗೂ ನನ್ನ ಅನಂತವಂದನೆಗಳು.

೨೦೨೨
 ಡಾ. ಕೆ. ಶಾರದಾ



- ಘಟಕ-೧ : ಬೆವನ ಕೆಲೆ
೧. ನಮ್ಮ ಅಳತೆಯನ್ನು ಏಕದ ದೇಹ - ಶಿವರಾಮ ಕಾರಂತ
 ೨. 'ಉದ್ಧಾರದ ಹೆಜ್ಜೆ' - 'ನಾನಾ ಬಣ್ಣಗಳಲ್ಲಿ ನಾನು' - ಸ್ವಾಮಿ ಜಗದಾತ್ಮಾನಂದ
 ೩. ನಿಮ್ಮ ಪಾದದಿಂದ ನನ್ನ ಕಲೆಯನ್ನು ಮೆಟ್ಟಿವಡಿ ನನ್ನ ಅಪಕಾರ ಆಳಿಯಲಿ - ಬೆಳಗರೆ ಕೃಷ್ಣಶಾಸ್ತ್ರಿ
 ೪. ಜೀವನದ ಅಗಾಧತೆ ಕಂಠಾಂಗ - ಬಿ.ಜಯಶ್ರೀ.
 ೫. ಮನದೊಳಗೆ ಇಳಿಯತೊಡಗಿದ ಹಲ್ಲು ಮೂಗು ಬಣ್ಣ - ದು.ಸರಸ್ವತಿ ೪೫

- ಘಟಕ-೨ : ಕನಸು
೧. ಇತ್ತಯ್ಯನ ಸ್ವಪ್ನವಿಧ್ಯಾಂತ - ಎಂ.ಬಸವಣ್ಣ ೫೪
 ೨. ಅಕ್ಕ ಕೇಳುವ ನಾನೊಂದು ಕನಸ ಕಂಡೆ - ಅಕ್ಕಮಹಾದೇವಿ ೫೯
 ೩. ಕೆಲೆ - ಕುವೆಂಪು ೬೦
 ೪. ಕನಸಿನೋಳಗೊಂದು ಕಣಸು - ದ.ರಾಜೇಂದ್ರ ೬೫
 ೫. ನನ್ನದೊಂದು ಕನಸಿದ - ಮಾರ್ಟಿನ್ ಲಿಥರ್ ಕಿಂಗ್ (ಜೂನಿಯರ್) ಅನು: ಕೆ.ಪುಟ್ಟಸ್ವಾಮಿ ೬೫

- ಘಟಕ-೩ : ಮಳೆ
೧. ಬಣ್ಣದ ಗುಬ್ಬಾರು ಮಳೆರಾಜ - ಜನಪದ ಪಾಠು ೭೪
 ೨. ಮತ್ತೆ ಮಳೆ ಹೋಯುತ್ತಿದೆ..... - ಯು.ಆರ್. ಅನಂತಮೂರ್ತಿ ೭೬
 ೩. ಯಾತಕ್ಕೆ ಮಳೆ ಹೋದವೋ... - ಜಿ.ನಾಯನಾಥ. ಅನು: ಜಿ.ಎನ್. ಮೋಹನ್ ೭೮

ಘಟಕ-೪ : ಸಂತೋಷ

೧. ಬದುಕಿಗೆ ಬೇಕು ಸಂಗೀತದ ನವಿರು - ರಾಜೇವ ತಾರಾನಾಥ್ ೮೩

ನಿರೂಪಣೆಗಳೇ ಅಮೀನಗಡ

Smt. Anuradha

➤ Detailed Syllabus :

Marks 60 (5 units of 12 marks each)

Unit 1: हिन्दी कथा साहित्य: - परंपरा एवं विकास, स्वरूप एवं विधान
- विभिन्न वाद एवं विचारधाराएँ

Unit 2: हिन्दी कहानी : उद्भव एवं विकास, कहानी के तत्व एवं कहानी के प्रकार

Unit 3: हिन्दी उपन्यास: उद्भव एवं विकास, उपन्यास के तत्व एवं उपन्यास के प्रकार

Unit 4: कहानियों का अभ्यास: निर्धारित कहानियों
उसने कहा था, कफ़न, आकाश दीप, पुरदा, पाजेब,
टेस, दोपहर का भोजन, पंचपरमेश्वर, हरी बिंदी, सलाम .

Unit 5: उपन्यास का अभ्यास: निर्धारित उपन्यास
गुनाहों का देवता : धर्मवीर भारती

Parameters for the evaluation

- Continuous Internal Evaluation (CIE) IA : total 40 Marks
C1 (two tests of 10 marks each) 20 Marks
C2 (one assignment work based on Course content) 10 marks
(one seminar presentation based on Course content) 10 marks
- C3 (Semester End Examination (SEE) 3 hrs duration total 60 Marks
I total five analytical or descriptive questions
from each unit (with internal choice) 12x5= 60

References :

- 1 हिन्दी कहानी का इतिहास/गोपाल राय/राजकमल प्रकाशन, दिल्ली- 06
- 2 हिन्दी उपन्यास:पहचान और परख/इंदनाथ मदान/लिपि प्रकाशन,नई दिल्ली
- 3 कहानी:स्वरूप और संवेदना/राजेन्द्र यादव/वाणी प्रकाशन, नई दिल्ली-02
- 4 हिन्दी उपन्यास: स्वरूप और संवेदना/राजेन्द्र यादव/वाणी प्रकाशन, नई दिल्ली-02
- 5 आधुनिक हिन्दी कहानी/लक्ष्मीनारायण लाल/वाणी प्रकाशन, नई दिल्ली-02

2
Prof. H.T. POTE
Dean, Faculty of Arts

Prof. Parimala Ambekar
Chairperson
Dept. of PG Studies & Research in Hindi
Gulbarga University, Kalaburagi-585 106.
Karnataka.

क: हिन्दी कहानी साहित्य

- Unit 1: गुल्ली डंडा : मुंशी प्रेमचंद
पुरस्कार: जयशंकर प्रसाद
- Unit 2: पंच परमेश्वर : रांगेय राघव
छप्पन तोले का करघन: उदय प्रकाश
- Unit 3: राजा निरबसिया : कमलेश्वर
काकी : सियारामशरण गुप्त
- Unit 4: गुलकी बन्नो: धर्मवीर भारती
मेहमान : राजेन्द्र यादव
- Unit 5: ज्वार भाटा : अभिमन्यु अनंत
ठीकरे की मंगनी : नासिरा शर्मा

ख: प्रयोजनमूलक हिन्दी

- Unit 1 कार्यालयी हिन्दी : परिभाषा स्वरूप एवं प्रकार्य
प्रारूपण, पत्रलेखन, संक्षेपण, पल्लवन, टिप्पण,
- Unit 2 पारिभाषिक शब्दावली: स्वरूप एवं महत्त्व, निर्माण के सिद्धांत,
ज्ञान विज्ञान के विभिन्न क्षेत्रों की पारिभाषिक शब्दावली

Parameters for the evaluation

- Continuous Internal Evaluation (CIE) IA : total 40 Marks
C1 (two tests of 10 marks each) 20 Marks
C2 (one assignment work based on Course content) 10 marks
(one seminar presentation based on Course content) 10 marks
- C3 (Semester End Examination (SEE) 3 hrs duration total 60 Marks
I total five analytical or descriptive questions
from each unit of section A (with internal choice) 10x5= 50
II total two short answer or short note questions
from each unit of section B(with internal choice) 05x2= 10

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क: हिन्दी कहानी साहित्य

- Unit 1: कजाकी : मुंशी प्रेमचंद
गुंडा : जयशंकर प्रसाद
- Unit 2: खून का रिश्ता : भीष्म साहनी
आर्दा : मोहन राकेश
- Unit 3: तीसरी कसम: फणीश्वर नाथ रेणू
राजा निरबंसिया: कमलेश्वर
- Unit 4: पोस्ट मैन: शैलेश मटियानी
अपत्ता गाँव : मोहनदास नैमिषराय
- Unit 5: मुखौटा : ममता कालिया
सुनंदा का दरवाजा : डॉ परिमला अंबेकर

ख: हिन्दी व्याकरण

- Unit 1 रूप-विचार : विकारी और अविकारी शब्द और उनके प्रकार
Unit 2 वाक्य-विचार: वाक्य की समर्थता, वाक्य के अंग, वाक्य के भेद,

Parameters for the evaluation

- Continuous Internal Evaluation (CIE) IA : total 40 Marks
 - C1 (two tests of 10 marks each) 20 Marks
 - C2 (one assignment work based on Course content) 10 marks
 - (one seminar (presentation based on Course content) 10 marks
- C3 (Semester End Examination (SEE) 3 hrs duration total 60 Marks
 - I total five analytical or descriptive questions
 - from each unit of section A (with internal choice) 10x5= 50
 - II total two short answer or short note questions
 - from each unit of section B(with internal choice) 05x2= 10

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Karnataka.

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SEMESTER -IV
GE 2: SOCIETY IN INDIA

Objectives:

- The connectivity between the present and the past is an evident feature of Indian society
- The continuity reflects in the social structure on the contemporary Indian society.
- To enable the students to gain a better understanding of their region and situation

Unit -I: Introduction

- A) The Structure and Composition of Indian Society
- B) Villages, Towns, Cities and Rural-Urban Linkages;
- C) Tribes, Weaker Section, Dalits, Women and Minorities, Theirs Problems, Challenges & Constructional Safeguards

Unit -II: Cultural and Ethnic Diversity

- A) Meaning Definition & Significance of Unity & Diversity of Indian Society
- B) Diversities in respect of Languages Caste & Religion
- C) Merits & Demerits of Religious Beliefs & Practices

Unit-III: Basic Institutions of Indian Society

- A) Meaning, Definition & Importance - Kinship, Family, Marriage
- B) Meaning, Definition & Importance - Religion Caste and Class
- C) Changing Dimensions

References:

1. Bose, N.K. 1967: Culture and Society in India. Bombay : Asia Publishing House.
2. Bose, N.K. 1975: Structure of Hindu Society. New Delhi.
3. Dube, S.C. 1990 : Society in India (New Delhi : National Book Trust)
4. Dube, S.C. 1995 : Indian Village (London : Routledge)
5. Dube, S.C. 1958 : India's Changing Villages (London : Routledge and Kegan Paul)
6. Karve, Irawati, 1961 : Hindu Society : An Interpretation (Poona : Deccan College)


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Sociology.

Content of Course 2: Changing Social Institutions in India	42 Hrs
Unit-1 Family and Marriage <i>Gender</i>	16
Chapter No. 1 Family - Definitions of Family and Household; Changing structure of family; changes in size and composition	
Chapter No. 2 Weakening of gender and age stratification - democratization of relationships: between spouses, parent-children; step-parenting	
Chapter No. 3 Changes in care giving of children and elderly	
Chapter No. 4 Marriage - Definition; changing patterns of marital relations - cohabitation, separation, divorce and remarriage	
Chapter No. 5 Changes in age of marriage, marriage decision making and regional variations	
Chapter No. 6 Decrease in number of children and voluntary childlessness	
Unit - 2 Religion and Education	13
Chapter No. 4. Definition; secularization vs resurgence of religion in modern world	
Chapter No. 5. Challenge of diversity - religious freedom vs state laws	
Chapter No. 6. Education: Definition; education as socialization; types of education - formal and informal	
Chapter No. 6 Functional view - manifest and latent functions; Conflict view - education as tool for perpetuating inequality	
Chapter No. 7 Schooling and Life Chances (Max Weber's views) - increasing enrolment ratio	
Chapter No. 8 Education and Employability - Technology and Digital Divide	


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SEMESTER -IV
DSC ID: INDIAN SOCIETY ISSUES & PROBLEMS

Objectives:

- > To sensitize the students to the emerging social issues and problems of contemporary India,
- > To enable them to acquire sociological understanding over the issues and problems of commonsense & understanding
- > To empower them to deal with these issues and problems and serve as a change agents both in governmental and non-governmental organizations

Unit -I: Introduction

- A) Meaning & Definitions of Social Problems
- B) Disharmony – Religious, Ethnic and Regional Problems
- C) Intra & Inter Generational Conflict

Unit-II: Familial Problems

- A) Causes, Consequences & Remedies - Dowry
- B) Causes, Consequences & Remedies - Divorce
- C) Causes, Consequences & Remedies - Domestic Violence

Unit -III: Developmental Issues

- A) Regional Disparities, Development Induced Displacement
- B) Ecological Degradation and Environmental Pollution
- C) Consumers Crisis of Values

Unit-IV: Social Disorganization

- A) Causes, Consequences & Remedies - White Collar Crime
- B) Causes, Consequences & Remedies - Corruption
- C) Causes, Consequences & Remedies - Drug Addiction & Suicide

Unit-V: Violence Against Women

- A) Meaning and Definition of Violence
- B) Nature and Extent of Violence
- C) Remedial Programmes

Unit VI: Intolerance

- A) Meaning, Definition & Importance of Intolerance
- B) Causes and Consequences
- C) Remedial Measures

References:

1. Beteille, Andre. 1974. Social Inequality, New Delhi: OUP
2. Beteille, Andre. 1992. Backward Classes in Contemporary India., New Delhi: OUP
3. Berreman, G.D. 1979. Caste and Other Inequalities: Essays in Inequality. Meerut:Folklore Institute.
4. Dube, Leela. 1997. Women and Kinship. Comparative Perspectives on Gender in South and Southeast Asia. New Delhi: Sage Publications.
5. Gadgil, Madhav and Guha, Ramchandra. 1996. Ecology and Equity : The use and Abuse of Nature in Contemporary India., New Delhi.: OUP

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INDIAN POLITY: ISSUES AND CONCERNS

Open Elective OE-2

Course Title: INDIAN POLITY AND CONCERNS	
Total Contact Hours: 45	Course Credits: 3
No. of Teaching Hours/Week:3	Duration of ESA/Exam: 3Hours
Formative Assessment Marks: 30	Summative Assessment Marks: 70+30=100

Course Objective: To make the students aware on different issues that exists in Indian polity. Through this paper students need to understand the emerging issues and their causes to the Indian Democracy.

Learning Outcome:

At the end of the course the students shall -

- Understand the reasons behind the causes of these issues and also the constitutional provisions that existed.
- Familiarize with the debates that emerged.
- Be able to suggest the measures to control such issues.

Unit	Contents of Course-OE-2	45 Hours
Unit-I	<p>Chapter-1 National Integration and Social Harmony - Meaning and Need of National Integration and Suggestions for securing National Integration</p> <p>Chapter-2 Society and Politics in India: Caste and Its Impact, Problems in understanding caste system as a social system in India, and Role of Caste and its Impact on Indian Polity.</p> <p>Chapter-3 Language - Role and Constitutional Provisions, Issues</p>	<p>15 Hours</p> <p>Human Values</p>

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GULBARGA-508106

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Department of Studies & Research In Political

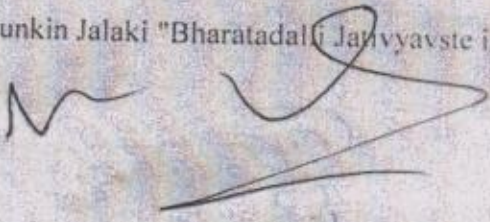
Unit-II	<p>Chapter-4 Religion and Local Traditions - Role and Constitutional Provisions</p> <p>Chapter-5 Development and Inclusiveness: Issues and Concerns</p> <p>Chapter-6 Regionalism and Regional Imbalance – Reasons for the Growth, Forms and Measures. (Nanjundappa Committee Recommendations).</p>	15 Hours
Unit- III	<p>Chapter-7 Corruptions- Causes and Measures</p> <p>Chapter-8 Terrorism- Types, Causes and Measures</p> <p>Chapter-9 Unity in Diversity – Consensus and Challenges</p>	15 Hours <i>Human</i>

Exercise:

- Classify the major factors which are an impediment to National Integration and give your suggestions
- Identify the terrorist's group in the world
- Make a point on 2011 Anti- Corruption movement in India

Suggested Readings:

1. M. Galanter, 'The Long Half-Life of Reservations', in Z. Hasan, E. Sridharan and R. Sudarshan (eds.) India's Living Constitution: Ideas, Practices, Controversies, New Delhi: Permanent Black, 2002.
2. C. Jaffrelot, 'The Politics of the OBCs', in Seminar, Issue, 2005.
3. Singh, M.P. & Saxena, R, Indian Politics: Contemporary Issues and Concerns, New Delhi: PHI Learning, 2008.
4. Vanaik, A. & Bhargava, R. (eds.) Understanding Contemporary India: Critical Perspectives, New Delhi: Orient Blackswan, 2010.
5. Dunkin Jalaki "Bharatadali Janvyavste ideye?", Malladahalli Publication, Malladahalli.



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HUMAN RIGHTS

Open Elective OE-1

Human values.

Course Title: HUMAN RIGHTS	
Total Contact Hours: 45	Course Credits: 3
No. of Teaching Hours/Week: 3	Duration of ESA/Exam: 3Hours
Formative Assessment Marks: 30	Summative Assessment Marks: 70+30=100

Course Objective:

This course aims to introduce the students to basic concepts and practices of Human Rights in the global and local domain. This course also exposes them to certain recent issues confronting the Human Rights debates.

Learning Outcomes:

After completing this course students will be able to-

- Explain the basic concept of Human Rights and its various formulations.
- Have necessary knowledge and skills for analyzing, interpreting, and applying the Human Rights standards and sensitize them to the issues.
- Develop ability to critically analyse Human Rights situations around them.

Unit	Contents of Course- OE-1	45 Hours
Unit-I	Chapter-1 Meaning, nature, scope and Classification of Human Rights	15 Hours
	Chapter-2 The Human Rights of First generation (Civil and Political Rights), Second generation (Economic, Social and Cultural Rights), Third generation (Collective Rights) and Fourth generation (Subjective Rights)	
	Chapter-3 Universal Declaration of Human Rights	
Unit-II	Chapter-4 Human Rights and Fundamental Rights. Fundamental Rights and Fundamental Duties in India	15 Hours
	Chapter-5 National Human Rights Commission (NHRC)	

	Composition and its function Chapter-6 Karnataka State Human Rights Commissions (KSHRCs) – Composition and its functions	
Unit- III	Chapter -7 National Commission and Committees for SCs/STs, Minorities' Commission, Women' Commission Chapter-8 Major issues and concerns of Human Rights- Discrimination and violation of rights of women, children, Dalits and Minorities, Trafficking, Child Labour and Bonded Labour Chapter-9 Challenges to Human Rights	15 Hours

Exercise:

- Group Discussion on Human Rights and its types (comparison of Western and Eastern concept of Human Rights).
- Students can be asked to do collage making and present the same.
- Find out the different types of complaints received by NHRC and bring out the end results on any one of such case.
- In order to make it more participatory learning, the students are required to visit the website of NHRC (www.nhrc.nic.in), wherein at the left-hand side, a link is provided to the 'instructions. After going through the guidelines issued by NHRC's, briefly explain the guidelines on – Custodial death/rape, Encounter death, and Guidelines on arrest.

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Professor & Chairman

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Science, Gulbarga University Kalaburagi,
Karnataka-585106

	Globalization.	
	Chapter-3 Corporate Governance- Networking and collaborative Governance.	
Unit-II	Chapter-4 Public Service Guarantee Act 2011: Features, Provisions and Impact, Right to Information Act- Meaning, Characteristics and Importance. Chapter-5 E-Governance - Meaning, Characteristics, Importance and E Governance Policy, ICT and Governance. Chapter-6 Citizens Charter, Digital India, Gender and Governance.	15 Hours
Unit- III	Chapter-7 Sakala Project, Bhoomi Yojana, SWAYAM and eKissan, eCourt. Chapter-8 People's Participation and Role of Civil Society, Ethics and Accountability in Governance. Chapter-9 Challenges before good governance in India.	15 Hours

Exercise:

- Students and the department can undertake survey regarding causes and consequences of failed administration.
- Through activities they can visit their respective villages and prepare papers regarding the working of programmes like Sakala, Bhoomi etc.,
- The department may invite officers connected to Governance projects and have interaction with the students.

Suggested Readings

1. Kanak Kanti Bagchi, Good Governance and Development, Abhijeet Publications, New Delhi, 2009,
2. C.P Bharthwal Ed. Good Governance in India, Deep and Deep, New Delhi, 2003.
3. Dhameja Alka Ed, Contemporary Debates in Public Administration, Prentice Hall of India, New Delhi, 2003.
4. World Bank, Governance and Development, Washington, DC, 1992.
5. Niraja Gopal Jayal, Ed, Democratic Governance in India, Sage, New Delhi, 2003.

Human
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	Rights.	
Unit-II	<p>Chapter-4: Citizenship Issues in India: Laws for Immigrants, Laws for Migrants and Asylum seekers, Process of acquiring Citizenship.</p> <p>Chapter-5: Dual Citizenship: Needs and Demands- Impact of Globalization, Advantages of Dual Citizenship.</p> <p>Chapter-6: IPC and Citizens Rights: First Information Report, Arrest, Detention, Bail Provisions, Sedition Act, Citizen and Civic Culture.</p>	15 Hours
Unit- III	<p>Chapter-7: Citizen and His Responsibility: Constitutional Provisions, Local Acts, Right to Privacy, Role of NGO's.</p> <p>Chapter-8: Citizen and Discrimination: Caste, Gender (LGBTQ), language, Race, Color, Place of Origin.</p> <p>Chapter-9: Protection of Citizens: Women and Property Rights, Rights of Forest Dwellers, and Displaced People (War, Natural Calamities and Rehabilitation) and Universal Declaration of Human Rights.</p>	15 Hours

Exercise:

- Students and teachers collectively work towards building communication network among vulnerable citizens who have no knowledge about their own rights.
- Through activities they may form empowering groups and support immigrants/ migrants resolve their legal issues with authorities like police and government.
- They may visit courts, police stations, regional passport offices and spread the laws relating to migrants, immigrants regarding their rights.


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	Chapter-6 Libertarianism: Nozick	
Unit- III	<p>Chapter-7 Communitarianism and Multiculturalism: Indian perspective, Colonial Discourse and Post Colonialism, Post Colonial Response and its Limitations</p> <p>Chapter-8 Proponents of Secularism – Nehru, Gandhi, Rajiv Bhargav.</p> <p>Chapter-9. Theory of Social Justice-Basaveshwara and Dr.B.R.Ambedkar</p>	15 Hours

Exercise:

- Write about the Myth and Reality on Communitarianism in India
- Compare the concept of Liberty, Equality and Justice to the Modern world
- Write the understanding of secularism in India

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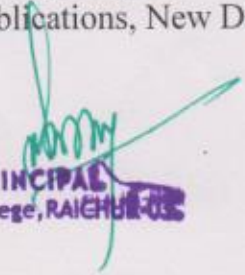
Gender

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Unit – 3	Economic and Political Institutions	13
Chapter No. 9 Definitions of Economy and Work		
Chapter No.10 Gender stratification in work and its feminization		
Chapter No. 11 Job insecurity, Unemployment; Outsourcing - opportunities and threats; automation and advancement of technology		
Chapter No. 12 Definitions of Political Institution, Government, Governance and State		
Chapter No. 13 Status of Democracy in India		
Chapter No. 14 Challenges: Militancy, Fundamentalism, Regionalism		
Chapter No. 15 Globalization and Social Welfare		

Text Books

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. Davis, Kingsley 1949, Human Society, Macmillan, Delhi
4. Giddens, Anthony and Philip W Sutton, 2013, Sociology, 7th edition, Wiley India Pvt. Ltd. New Delhi
5. Gouda, M Sateesh, Khan, A G and Hiremath, S L 2019, Spouse Abusal in India: A Regional Scenario, GRIN Publishing, Munich
6. Harlambos, M and R M Heald, 1980, Sociology: Themes and Perspectives, Oxford University Press, Delhi
7. Indira R 2011, Themes in Sociology of Indian Education, Sage Publications, Delhi
8. Inkeles, Alex 1987, What is Sociology? Prentice-Hall of India, New Delhi
8. Jayaram, N 1989, Sociology - Methods and Theories, Macmillan India Ltd. Bangalore
9. Johnson, H M 1995, Sociology: A Systematic Introduction, Allied Publishers, New Delhi
10. Mulagund, I C 2008 Readings in General Sociology, Srushti Prakashana, Dharwad
10. Mulagund, I C 2008 Readings in Indian Sociology, Srushti Prakashana, Dharwad
11. Ritzer, George and W W Murphy, 2020, Introduction to Sociology, 5th edition, Sage Publications, New Delhi


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Unit-II	<p>Chapter-4: The Union Executive: The President, Vice-President, Prime Minister and the Council of Ministers.</p> <p>Chapter-5:Parliament: Powers and Functions of Lok Sabha and Rajya Sabha, Relationship between the two Chambers, Amendment Process and Major Amendments (42nd, 73rd, 74th, 86th, 101st).</p> <p>Chapter-6: Judiciary and Judicial Review, Appellate Authority. Basic Structure of the Indian Constitution and debates.</p>	15 Hours
Unit- III	<p>Chapter-7: Nature of Indian Political System, Union-State Relations (Commissions and Committees), President's Rule: Processes and politics.</p> <p>Chapter-8:Ideology of - National Political Parties, Regional Political Parties, Coalition Politics and Elections in Indian Politics.</p> <p>Chapter-9: Issues in Indian Democracy: Caste, Religion, Communalism, Regionalism, Criminalization, Terrorism, Social and Distributive Justice.</p>	15 Hours

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Exercise:

- Debate on the 'basic structure of Indian Constitution' and the need for changes in the constitution, functioning of the Constitution-Cases regard to Governor and President's Rule.
- List out the major amendments to the constitution, Commission and committee to review power sharing.
- Examine the functioning of various political parties, its inclusive approaches, influence of dynasties on their performance.

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B. A. VI Semester (DSE Paper-A)

INDIAN ECONOMY -II

Teaching hrs/week: 06

No. of Credits: 06

Objective:

This paper introduces students to basic feature of Indian economy and its structure. It also highlights recent developments in Indian economic structure.

Module-I: Banking Industry in India:

Commercial Banking- History, Nationalization of Banks, Problems of Public Sector Banks, Emergency of Private Sector Banks, Banking Sector Reforms, Reserve Bank of India- Functions and Role in India's development, demonetization.

Module-II: India's Foreign Trade:

Size, Composition and Directions of India's Foreign Trade, Balance of Payment, Problem-causes, consequences and remedies

Module-III: Public Finance-I:

Sources of Revenues of Central and State Governments, Direct and Indirect Taxes in India- Merits and Demerits, Tax reforms, VAT, GST

Module-IV: Public Finance-II:

Public Expenditure- structure and growth, causes, Public debt- growth, causes, effects, debt of state governments, Finance commission- Functions, Recent finance commission

Module-V: Planning and Economic Development:

Five year Plans- Objectives, Achievements and Failures, XII Five year plan, NITI, Ayog, Poverty and Unemployment, Removal Programmes- MGNREGA

Module-VI: Economic Reforms:

1991 BOP crisis, New Economic Policy- LPG, WTO and India

References:

1. Rudder Dutt: Indian Economy
2. Mishra and Puri: Indian Economy
3. Agarwal . A N: Indian economy- problems in development and planning
4. Dhingra: L C: Indian Economy
5. Uma Kapila: An Overview of Indian Economy Vol-I-IV.



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ವಿಭಾಗ ನಿರೀಕ್ಷಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಕಲಬುರಗಿ



Government of Karnataka
Model Curriculum

2) Human values (37)
Humanity

Program Name	BA in Economics	Semester	Third Semester
Course Title	Microeconomics		
Course Code:	DSC-3.1	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand introductory economic concepts.
- CO2. Recognize basic supply and demand analysis.
- CO3. Recognize the structure and the role of costs in the economy.
- CO4. Describe, using graphs, the various market models: perfect competition, monopoly, monopolistic competition, and oligopoly.
- CO5. Explain how equilibrium is achieved in the various market models.
- CO6. Identify problem areas in the economy, and possible solutions, using the analytical tools developed in the course.

Contents	42 Hrs
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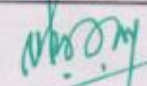
Unit-1: Basics of Microeconomics

Chapter:1 Exploring Microeconomics: Nature and scope of economics – opportunity cost, scarcity, production possibility frontier - Market system as a way to organise economic activities, welfare state	3
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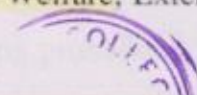
Chapter:2 Supply and Demand: Determinants of demand and supply; demand and supply schedules and; individual and market demand and supply; shifts in the demand and supply curves; Interaction of demand and supply; Equilibrium price and quantity	3
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Practicum:

- Reading and working with graphs
- Estimation of elasticity and discussing its applications; solving problems to estimate the equilibrium price and quantity


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Unit -2: Consumption Decisions	
Chapter 3	5
The Households: Diminishing Marginal Utility; Indifference curves – Meaning and Properties; budget constraint; Satisfaction Maximization; income and substitution effects; choice between leisure and consumption.	
Practicum: Conducting a consumer survey to understand their tastes and preferences	
Unit -3: Production and Costs	
Chapter 4: The Firms: Concept of firm and Industry; Production Function; Law of Variable Proportions; isoquant and isocost lines, cost minimizing equilibrium condition; Returns to Scale; Features of Cobb-Douglas Production Function	5
Chapter 5: Cost of Production: Short run and long run costs; Returns to Scale.	3
Practicum:	
<ul style="list-style-type: none"> ➤ Analysing reasons for diminishing marginal returns ➤ Examining the relationship between cost and output/ Deriving cost functions from output functions 	
Unit -4: Pricing	
Chapter 6: The Markets: Meaning of Market Structure and Types; Pricing under perfect competition; Monopoly pricing and price discrimination; Monopolistic Competition – Features and Pricing; Oligopoly – Interdependence, Collusive and non-collusive oligopoly; Elements of Game theory	7
Chapter 7: The Inputs (Factors): Functional and Personal Income; Demand for and supply of factors; Marginal Productivity Theory of Distribution; Meaning and determinants of Rent, Wages, Interest and Profits	6
Practicum:	
<ul style="list-style-type: none"> ➤ Conducting Market Survey to identify the nature and features of markets for different goods/services ➤ Understanding distribution of national income as factor incomes 	
Unit -5: Welfare Economics	
Chapter 8: Welfare Economics: Meaning of Welfare; Pigou's Welfare Economics; Compensation principle; Impediments to attain Maximum Social Welfare; Externalities, Market Failure	6



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Professional Ethics

Government of Karnataka

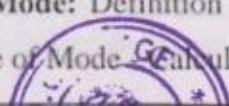
Model Curriculum

Program Name	BA in Economics	Semester	Fourth Semester
Course Title	Statistics for Economics		
Course Code:	DSC-4.2	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the nature of Data and their presentation
- CO2. Calculate Descriptive statistics like measures of central tendency and dispersion
- CO3. Apply statistical techniques like correlation and regression in Economic analysis

Content of Theory	42 Hrs
Unit-1: Preliminaries	12 Hrs
Chapter:1 Introduction to Statistics: Meaning and Importance of Statistics, Functions of Statistics, Types of Statistics: Descriptive Statistics and Inferential Statistics-Variables; Qualitative Variable and Quantitative Variable	4
Chapter-2: Datatypes, Sources and Collection of Data: Qualitative and Quantitative Data - Cross Section Data, Time Series Data and Panel Data - Primary and Secondary sources of Data - Methods of Collecting Primary Data	4
Chapter-3: Tabulation and Presentation of Data: Classification and tabulation of data - Frequency distributions - Continuous and Discrete frequency distribution. Graphical presentation- Histogram- frequency polygon - Ogive Curves -Bar Diagram, Pie Chart	4
Unit -2: Measures of Central Tendency and Dispersion	14 Hrs
Chapter-4: Arithmetic Average: Definition of Central Tendency, Types of Central Tendency: Arithmetic Mean: Meaning and Properties of Arithmetic Mean - Computation of Arithmetic Mean	5
Chapter-5: Positional Averages-Median and Mode: Definition and importance of Median- Calculation of Median- Definition and importance of Mode- Calculation of Mode.	4



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Chapter-6: Dispersion: Meaning of Dispersion- Measures of Dispersion- Range- Quartile deviation- mean deviation - Standard deviation - Coefficient of Variation and Their Computation	5
Unit -3: Correlation, Regression and Time Series Analysis	16 Hrs
Chapter-7: Correlation: Meaning of Correlation - Types of correlation - Methods of measuring Correlation- Karl Pearson's correlation coefficients	5
Chapter-8: Regression: Meaning and Importance of Regression - Regression Equation - Estimation of regression equation - Applications of regression equation in Economics	6
Chapter-9: Time Series Analysis: Definition of Time Series – Components of Time Series – Estimation and Forecasting of Trend	5

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

Formative Assessment for C1 & C2		
Assessment Occasion/ type	Marks	
	C1	C2
Internal Test	10	10
Assignment/Seminar	05	
Quiz	05	
Case study / Field work / Project work/ Industrial Visit and Prepare a report	-	10
Total	40 Marks	
<i>Formative Assessment as per NEP guidelines are compulsory</i>		

References	
1	Gupta S P. (2012) Statistical Methods, S. Chand and Company, New Delhi.
2	S. C. Gupta, (New edition) Fundamentals of Statistics, Himalaya publishing house, Mumbai.
3	S. N. Yogish, Statistical methods for Economists- Mangaldeep publications, Jaipur.
4	Anderson, Sweeney & Williams, (2002) Statistics for Business & Economics, Thomson South-Western, Bangalore.
5	Daniel and Terrel: Business Statistics for Management and Economics; oaghton Mifflin Co., Boston, Toronts, 7th Edition, 1995, PP 1 to 972 + 6 Appendices
6	Medhi, J., Statistical Methods: An Introductory Text, Wiley, 1992
7	Morris H. Degroot and Mark J. Schervish, "Probability and Statistics", 4th edition, 2012.
8	Teresa Bradley, Essential Statistics for Economists Business and Management, John Willey Publisher, 2007

Unit	Description	Hours
I	Characteristics of Karnataka Economy	12
	Chapter 1: State Income	2
	<ul style="list-style-type: none"> • State Domestic Product and PCI • Measures to redress regional imbalances 	
	Chapter 2: Human and Natural Resources	6
	<ul style="list-style-type: none"> • Population • Human Development Index • Poverty and Unemployment- Anti-Poverty and Employment generation Programmes • Functioning of Panchayat Raj Institutions 	
	Chapter 3: Natural Resources in Karnataka	4
	<ul style="list-style-type: none"> • Land, Water, Forest and mineral resources in Karnataka Karnataka Sustainable Development Goals • Karnataka environmental Policy 	
	Practicum:	
II	Agriculture and Industries in Karnataka	18
	Chapter 4: Agriculture in Karnataka	9
	<ul style="list-style-type: none"> • Importance of Agriculture • Problems in Agriculture • Land Reforms • Cropping Pattern • Irrigation • Watershed Development • Dry Land Farming • Farmers Suicide – causes and solutions 	
	Chapter 5: Rural Development	3
	<ul style="list-style-type: none"> • Public Distribution System • Rural Development Programmes. 	6
	Chapter 6: Industries in Karnataka	

	<ul style="list-style-type: none"> • Major Industries in Karnataka - Problems and Prospects • MSMEs - Problems and Measures • IT Industries in Karnataka • Industrial Finance in Karnataka • Industrial Policy of Karnataka 	
	Practicum:	
III	Infrastructure and Finances	12
	Chapter 7: Infrastructure in Karnataka	3
	<ul style="list-style-type: none"> • Transportation: Road, Rail, Water and Air Transport • Information and Communication Technology facilities; 	
	Chapter 8: Social Infrastructure	4
	<ul style="list-style-type: none"> • Drinking Water, Sanitation • Housing • Health and Education • Social Security in Karnataka 	
	Chapter 9: State Finance	5

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42

SEMESTER - VI
SECM 3: ENVIRONMENTAL MICROBIOLOGY

CREDITS: 02

Total Hrs: 30

PREAMBLE:

- This Paper involves the concept of environment, origin Development of Environmental Microbiology.
- They also learn about microbial community and the microbial diversity of microorganisms from various environment.
- They study about Water Pollution, Air Pollution & Soil pollution.

UNIT 1: INTRODUCTION

Introduction: Origin, Concept and Development of Environmental Microbiology **02hrs**

UNIT 2: MICROBIAL COMMUNITY

Microbial Community: Ecosystem, habitat and niche. Concept and dynamics of microbial population and community. Structure and functions of microbial communities. Ecological succession. **06hrs**

UNIT 3: MICROBIAL DIVERSITY

Microbial diversity: Diversity of microorganisms in different environments. Microbes in extreme environments. Extremophiles - Psychrophilic, thermophilic, acidophilic, alkalophilic, halophilic and barophilic. Mechanism of adaptation in extremophilic microorganism. **06 hrs**

UNIT 4: WATER POLLUTION

Water Pollution: Sources, Characteristics of water pollutants, health hazards due to water pollution. Standard water quality criteria, Water quality testing (MPN technique). Eutrophication Waste water treatment; singledwelling unit-septic tank, imhoff tank, municipal waste water treatment-primary,secondary and tertiary treatment. Solid waste management. **08hrs**

UNIT 5: AIR POLLUTION

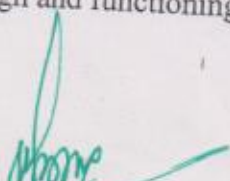
Air pollution and Radiation hazards: Sources and characteristics of air pollutants; Health hazards due to air pollution; Green house gases and green house effect. Ozone hole and acid rain. Radiation hazards and safety measures – sources, effect of radiations and safety measures. **04hrs**

UNIT 6: SOIL POLLUTION

Soil pollution: Sources and characteristics of soil pollutants. Effects of soil pollution on human health and crop productivity **04hrs**

PRACTICAL

- Isolation of microorganisms from aquatic, terrestrial and atmospheric ecosystems
- Demonstration of MPN index
- Determination of DO and BOD of waste water
- Study of soil profile
- Design and functioning of biogas plant


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Text Books / References

1. Felix Franks, 1993; Protein Biotechnology, Humana Press, New Jersey.
2. Stryer L, 1995; Biochemistry, Freeman and Company, New York.
3. Voet & Voet, 1995; Biochemistry, John Wiley and Sons, New York.
4. Nelson and Cox, 2000; Lehninger Principles of Biochemistry, Elsevier Publ.
5. Harper, 1999; Biochemistry, McGraw Hill, New York.
6. Palmer T. (2001), Biochemistry, Biotechnology and Clinical Chemistry, Harwood Publication, Chichester.
7. Boyer R. (2002), Concepts in Biochemistry 2nd Edition, Brook/ Cole, Australia.
8. Moat A. G., Foster J.W. Spector. (2004), Microbial Physiology 4th Edition Panama Book Distributors.
9. Caldwell, D. R. (1995) – Microbial Physiology and Metabolism. Brown Publishers.
10. Lodish H, T. Baltimore, A. Berck B.L. Zipursky, P. Mastsydaire and J. Darnell. (2004) – Molecular Cell Biology, Scientific American Books, Inc. Newyork.

**Course 2 :Theory: OE- 2T, MBL 302,
Environmental and Sanitary
microbiology**

Course 2 :Theory: OE- 2T, MBL 302, Environmental and Sanitary Microbiology	42 Hrs
Unit – 1: Soil and Air Microbiology	14 Hrs
Soil and Air as a major component of environment. Types, properties and uses of soil and air. Distribution of microorganisms in soil and air. Major types of beneficial microorganisms in soil and air. Major types of harmful microorganisms in soil and air.	
Unit – 2: Water Microbiology	14 Hrs
Water as a major component of environment. Types, properties and uses of water. Microorganisms of different water bodies. Standard qualities of drinking water	
Unit – 3: Sanitary Microbiology	14 Hrs
Public health hygiene and communicable diseases. Survey and surveillance of microbial infections. Airborne microbial infections, waterborne microbial infections, Food borne microbial infections. Epidemiology of microbial infections, their detection and control.	

Text Books / 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. Alexopoulos, C.J., Mims, C.W., and Blackwell, M. 2002. Introductory Mycology. John Wiley and Sons (Asia) Pvt. Ltd. Singapore. 869 pp.
9. Atlas, R.M. 1984. Basic and practical microbiology. Mac Millan Publishers, USA. 987pp.
10. Black, J.G. 2008. Microbiology principles and explorations. 7edn. John Wiley and Sons Inc., New Jersey 846 pp.
11. Pommerville, J.C. Alcamo's Fundamentals of Microbiology. Jones and Bartlett Pub..Sudbury, 835 pp.
12. Schlegel, H.G. 1995.General Microbiology. Cambridge University Press, Cambridge, 655 pp.
13. Toratora, G.J., Funke, B.R. and Case, C.L. 2007. Microbiology 9th ed. Pearson Education Pte. Ltd., San Francisco. 958pp.

Pedagogy :

The general pedagogy to be followed for theory and practicals are as under.
Lecturing, Tutorials, Group/Individual Discussions, Seminars, Assignments, Counseling, Remedial Coaching. Field/Institution/Industrial visits, Hands on training, Case observations, Models/charts preparations, Problem solving mechanism, Demonstrations, Project presentations, Experiential documentation and Innovative methods.

Formative Assessment : 40%	
Assessment Occasion/ type	Weightage in Marks
IA (2 Tests)	20% : 20 Marks
Assignments / Visits	10% : 10 Marks
Seminars / Group Discussion	10% : 10 Marks
Total	40% : 40 Marks

Date
14.09.2021

Course Co-ordinator
Special Officer, KSHEC

(Dr. Prasannakumar)

Subject Committee Chairperson
Vice Chancellor, Gulbarga
University
(Prof. Dayanand Agsar)

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Time: 2hrs

Max. Marks 40

Q.I. Answer any FIVE of the following .

5x2=10 Marks

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

Q.II. Answer any TWO of the following in brief.

2x5=10 Marks

- 7.
- 8.
- 9.

Q.III.Explain/Describe any TWO of the following.

2x10=20 Marks

- 10.
- 11.
- 12.

1-3 .
Environment Sustainability

VI Semester

DSE-3

ECOLOGY, WILDLIFE BIOLOGY & ANIMAL BEHAVIOUR

THEORY (04 Credits)

(60h)

Unit-I : Ecology

20

Ecosystem structure and functions.

Types of Ecosystems – Aquatic and Terrestrial.

Biogeochemical cycles- Nitrogen, Carbon, Phosphorus and Water.

Energy flow in ecosystem; Food chain, food web and ecological pyramids.

Animal Associations – Mutualism, commensalism, parasitism, competition, predation.

Concept of Species, Population dynamics and Growth curves.

Community Structure and dynamics: Ecological Succession.

Ecological Adaptations.

Unit-II : Zoogeography

10

Zoogeographical regions of the world, their Climatic and faunal peculiarities.

Wallace line. Continuous & Discontinuous distribution. Continental Drift.

Unit -III : Wildlife Biology

8

Distribution of Wildlife in India: The Himalayan ranges. The Peninsular Indian sub region.

Deccan Plateau. The Western Ghats, Eastern hill chain – Aravali ranges. The Indian desert.

Tropical rain forests, wildlife in Andaman and Nicobar Islands.

Wildlife Problems : Hunting, over harvesting, habitat destruction due to overpopulation,

degradation, habitat shrinkage, and possibilities of climatic changes, transgenic changes.

Unit-IV: Wildlife Conservation :

7

29

Need for wildlife conservation – Agencies engaged in wildlife conservation. Government organization and non-government organizations (NGOs). Wildlife (Protection) Act 1972. CITES (Convention on International Trade in endangered species of wildlife flora and fauna – endangered). Fauna and flora of India. Red data book. Ramsar convention. CBD (Convention on Biological Diversity). Project Tiger.

Unit-V : Animal Behavior

15

Types of Behavior – Innate (Inborn) and Acquired (learned)
Innate: Taxes, Kineses, Instinctive and Motivated behavior.
Acquired: Habituation, Imprinting, trail and error & Conditioned reflexes (Classical conditioning & Instrumental conditioning).
Social behavior. Communication, Pheromones.
Brief account on Courtship, Nesting, Migration and Parental care in Birds.
Mimicry : Definition & types.

Suggested Reference

Fundamental of Ecology : EPOdum and, GW Barret
Environmental Biology Ag Agarwal
Environmental Science G. Tyler Miller
Animal Behaviour : A Manning

Wildlife3 Biology: An Indian perspective Goutam Kumar Saho Subhendu Mazumdar
Wildlife in India : Basra G. 2004.
Conserving wildlife in India : Chodha SK
Wildlife Management Dhyani S.N.
The Wildlife of India. Gee. EP. 2000
Wildlife Management n India 2003 Brs Hosetti
Manual for Wildlife Management in India.
Zoogeography of India and South East Asia S.K. Tiwari 1985.

VI Semester

DSE-3

Ecology, Wildlife Biology & Animal Behaviour :
Model Question Paper (Theory)

Instructions:

Time: 03 hours
Max.Marks=80

1. Answer all the questions.
2. Draw diagrams wherever necessary.

SECTION: A

Q1. Answer any TEN of the following

10X2 =20 Marks

Question No 1 to 12

SECTION : B

ENVIRONMENTAL STUDIES

SYLLABUS :

MODULE - 1: INTRODUCTION TO ENVIRONMENTAL STUDIES

Multidisciplinary Nature of Environmental Studies
Scope and Importance of Environmental Studies; Concept of Sustainability and Sustainable development.

MODULE - 2: ECOSYSTEMS

What is an Ecosystem? Structure and Function of an Ecosystem; Energy flow in the ecosystem: Food Chains, Food Webs and Ecological Succession. Case studies of the following ecosystems: a) Forest ecosystem b) Grassland ecosystem c) Desert ecosystem d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

MODULE - 3: NATURAL RESOURCES: RENEWABLE AND NON-RENEWABLE RESOURCES

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 Resources: Use and Over-utilization of Surface and Ground Water, Floods, Drought, Conflicts Over Water.
Energy Resources: Renewable and Non-renewable Energy Sources, Use of Alternate Energy Sources, Growing Energy Needs, Case Studies.

MODULE - 4: BIODIVERSITY AND CONSERVATION

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
Ecosystem and Biodiversity Services: Ecological, Economic, Social, Ethical, Aesthetic and Informational Value.

MODULE - 5: ENVIRONMENT POLLUTION

Environment Pollution: Types, Causes, Effects and Controls of: Air, Water, Soil and Noise Pollution
Nuclear Hazards and Health Risks
Solid Waste Management: Control Measures of Urban and Industrial Wastes. Pollution Case Studies.

MODULE-6: ENVIRONMENTAL POLICIES AND PRACTICES



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Climate Change, Global Warming, Ozone Layer Depletion, Acid Rain and Impacts on Human Communities and Agriculture.
Environment Law: Environment Protection Act; Air (Prevention and Control of Pollution) Act; Water (Prevention and Control of Pollution) Act; Wild Life Protection Act; Forest Conservation Act. International Agreements: Montreal & Kyoto Protocols and Conservation on Biological Diversity (CBD).
Nature Reserves, Tribal Population, Rights and Human Wildlife Conflicts in Indian Context

MODULE - 7: HUMAN COMMUNITIES AND THE ENVIRONMENT

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)

MODULE - 8: FIELD WORK



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2. Principles of plant breeding: Robert Wayne Allard (John Wiley & Sons 1999)
3. Principles and procedures of plant breeding-Biotechnological and conventional approaches: Chahal G S and Gosal S S
4. Plant breeding principles and methods: Singh B D Ludhiana (Kalyani Pubs, New Delhi 1983)
5. Principles of gene manipulation- An introduction to genetic engineering: Bold R W and Primerose S B (Black Well, London)
6. Introduction to plant biotechnology: Chawla H S (Oxford & IBH, New Delhi 2000).
7. Plant Cell Culture – A practical approach: Dixan and Ganzales RA (Oxford Univ Press NY 1994).
8. Hand Book of Plant Cell Culture vol.-I: Evans *et al.* (Macmillan, New York 1983).
9. Plant cell, tissue and organ culture- Fundamental method: Gambarg O L and Phillips (Narosa, New Delhi.1996)
10. Applied and Fundamental Aspects of Plant cell, tissue and organ culture: Reinert J and Bajaj Y P S (Narosa, New Delhi 1988).
11. Cell culture and somatic cell genetics of plants vol.-II: Vasil I K (Academic, New York 1985).
12. Genome analysis-A laboratory manual vol-I: Birren *et al.* (Panima, New Delhi/Blore).

Singh, B.D. (2005). Plant Breeding: Principles and Methods. Kalyani Publishers. 7th edition.

7. Chaudhari, H.K. (1984). Elementary Principles of Plant Breeding. Oxford – IBH. 2nd edition.

8. Acquaah, G. (2007). Principles of Plant Genetics & Breeding. Blackwell Publishing.

SEC-3: Nursery and Gardening **30 h**

Unit 1: **7 h**
 Nursery: Introduction, infrastructure for nursery, planning and seasonal activities - Planting - direct seeding and transplants. Seed: Seed dormancy; causes and methods of breaking dormancy, Seed storage and seed testing. Sowing/raising of seeds and seedlings - Transplanting of seedlings.
 Vegetative propagation: air-layering, cutting, selection of cutting, collecting season, treatment of cutting, rooting medium and planting of cuttings - Hardening of plants – green house - shade house and glass house.

Unit 2: **8 h**
 Gardening: definition, objectives and scope - different types of gardening - landscape and home gardening - parks and its components - plant materials and design - computer applications in landscaping - Gardening operations. Study of cultivation of different vegetables: cabbage, brinjal, lady's finger, onion, garlic, tomato and carrots - Storage and marketing.

Practical: **15 h**

1. Testing and breaking of seed dormancy
2. Seed germination and viability

3. Study of efficacy of natural fungicides.
4. Vegetative propagation, layering and cuttings.
5. Testing of seed borne diseases.
6. Cultivation of vegetables.
7. Visit to nursery and green houses.

Reference Books

1. Bose T.K. & Mukherjee, D., 1972, Gardening in India, Oxford & IBH Publishing Co., New Delhi.
2. Sandhu, M.K., 1989, Plant Propagation, Wile Eastern Ltd., Bangalore, Madras.
3. Kumar, N., 1997, Introduction to Horticulture, Rajalakshmi Publications, Nagercoil.
4. Edmond Musser & Andres, Fundamentals of Horticulture, McGraw Hill Book Co., New Delhi.
5. Agrawal, P.K. 1993, Hand Book of Seed Technology. Dept. of Agriculture and Cooperation, National Seed Corporation Ltd., New Delhi.
6. Janick Jules. 1979. Horticultural Science. (3rd Ed.), W.H. Freeman and Co., San Francisco, USA.

SEC-4: Floriculture

30 h

Unit I:

8 h

Introduction: Importance and scope of floriculture and landscape gardening. Ornamental Plants: Shade and ornamental plants; Ornamental bulbous plants; Cacti and succulents; Palms and Cycads; Ferns. Cultivation of plants in pots, Indoor gardening, Bonsai. Principles of Garden Designs: Features of a garden (Garden wall, Fencing, Steps, Hedge, Edging, Lawn, Flower beds; Shrubbery, Borders, Water garden. Some Famous gardens of India.

Unit II:

7 h

Commercial Floriculture: Factors affecting flower production; Production and packaging of cut flowers; Flower arrangements; Methods to storage of cut flowers; Cultivation of Important cut flowers (Carnation, Aster, Chrysanthemum, Dahlia, Gerbera, Gladiolous, Marigold, Rose, Liliium, Orchids). Diseases and Pests of Ornamental Plants.

Practical:

15 h

1. Methods and designs of landscape for floriculture
2. Pot cultivation of flowering plants
3. Preparation for bonsai plants.
4. Methods of storage of cut flowers
5. Disease management of important ornamental plants
6. Preparation of Jam and Gulkand from rose petal.
7. Visit to Horticulture institute.

Reference Books:

1. Randhawa, G.S. and Mukhopadhyay, A. 1986. Floriculture in India. Allied Publishers.

<p align="center">Name of the Program: Bachelor of Commerce (B.Com) Course Code: B.Com. 1.5 (Open Elective Course) Name of the Course: Financial Literacy</p>		
Course Credits	No. of Hours per Week	Total No. of Teaching Hours
3 Credits	3 Hrs	42 Hrs
<p>Pedagogy: Classrooms lecture, Case studies, Group discussion, Seminar & field work etc.,</p>		
<p>Course Outcomes: On successful completion of the course, the Students will be able to</p> <ol style="list-style-type: none"> 1. Describe the importance of financial literacy and list out the institutions providing financial services; 2. Prepare financial plan and budget and manage personal finances; 3. Open, avail, and manage/operate services offered by banks; 4. Open, avail, and manage/operate services offered by post offices; 5. Plan for life insurance and property insurance & select instrument for investment in shares 		
Syllabus:		Hours
Module No. 1: Introduction		07
<p>Meaning, importance and scope of financial literacy; Prerequisites of Financial Literacy - level of education, numerical and communication ability; Various financial institutions - Banks, Insurance companies, Post Offices; Mobile App based services. Need of availing of financial services from banks, insurance companies and postal services.</p>		
Module No. 2: Financial Planning and Budgeting		07
<p>Concept of economic wants and means for satisfying these needs; Balancing between economic wants and resources; Meaning, importance and need for financial planning; Personal Budget, Family Budget, Business Budget and National Budget; Procedure for financial planning and preparing budget; Budget surplus and Budget deficit, avenues for savings from surplus, sources for meeting deficit.</p>		
Module No. 3: Banking Services		10
<p>Types of banks; Banking products and services - Various services offered by banks; Types of bank deposit accounts - Savings Bank Account, Term Deposit, Current Account, Recurring Deposit, PPF, NSC etc.; Formalities to open various types of bank accounts, PAN Card, Address proof, KYC norm; Various types of loans - short term, medium term, long term, micro finance, agricultural etc. and related interest rates offered by various nationalized banks and post office; Cashless banking, e-banking, Check Counterfeit Currency; CIBIL, ATM, Debit and Credit Card, and APP based Payment system; Banking complaints and Ombudsman.</p>		
Module No. 4: Financial Services from Post Office		08
<p>Post office Savings Schemes: Savings Bank, Recurring Deposit, Term Deposit, Monthly Income Scheme, Kishan Vikas Patra, NSC, PPF, Senior Citizen Savings Scheme (SCSS), Sukanya Samriddhi Yojana/ Account (SSY/SSA); India Post Payments Bank (IPPB). Money Transfer: Money Order, E-Money order. Instant Money Order, collaboration with the Western Union Financial Services; MO Videsh, International Money Transfer Service, Electronic Clearance Services (ECS), Money gram International Money Transfer, Indian Postal Order (IPO).</p>		
Module 5: Protection and Investment Related Financial Services		10
<p>Insurance Services: Life Insurance Policies: Life Insurance, Term Life Insurance, Endowment Policies, Pension Policies, ULIP, Health Insurance and its Plans, Comparison of</p>		

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policies offered by various life insurance companies. Property Insurance: Policies offered by various general insurance companies. Post office life Insurance Schemes: Postal Life Insurance and Rural Postal Life Insurance (PLI/RPLI). Housing Loans: Institutions providing housing loans, Loans under Pradhanmantri Awas Yojana - Rural and Urban.

Investment avenues in Equity and Debt Instruments: Portfolio Management: Meaning and importance; Share Market and Debt Market, Sensex and its significance; Investment in Shares - selection procedure for investment in shares; Risk element; Investment Management - Services from brokers and Institutions, and self-management; Mutual Fund.

Skill Development Activities:

1. Visit banks, post offices, and insurance companies to collect information and required documents related to the services offered by these institutions and to know the procedure of availing of these services.
2. Fill up the forms to open accounts and to avail loans and shall attach photocopies of necessary documents.
3. Prepare personal and family budget for one/six/ twelve month on imaginary figures.
4. Try to open Demat account and trade for small amount and submit the report on procedure on opening of Demat account and factors considered for trading.
5. Any other activities, which are relevant to the course.

Text Books:

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 Publications India Pvt. Ltd.
4. Milling, B. E. (2003). The Basics of Finance: Financial Tools for Non-Financial Managers. Indiana: universe Company.
5. Mitra, S., Rai, S. K., Sahu, A. P., & Starn, H. J. (2015). Financial Planning. New Delhi: Sage Publications India Pvt. Ltd.
6. Zokaityte, A. (2017). Financial Literacy Education. London: Palgrave Macmillan.

Note: Latest edition of text books may be used.

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Name of the Program: Bachelor of Commerce (B.Com) Course Code: B.Com. 2.6 (Open Elective Course) Name of the Course: Financial Environment		
Course Credits	No. of Hours per Week	Total No. of Teaching Hours
3 Credits	3 Hrs	42 Hrs

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

Course Outcomes: On successful completion of the course, the Students will be able to
 ee) Understand the fundamentals of Indian Economy and its significance.
 ff) Evaluate the impact of monetary policy on the stakeholders of the Economy.
 gg) Assess the impact of fiscal policy on the stakeholders of the Economy.
 hh) Examine the status of inflation, unemployment and labour market in India
 ii) Infer the financial sector reforms in India.

Syllabus:	Hours
Module No. 1: Fundamentals of India Economy	10

Introduction - Production & Cost-Demand & Supply-Perfect & Imperfect Competition-Monopoly-National Income Accounting-Business Cycle-Open Economy-Utility theory-GDP-GNP-impact- other Marco financial indicators.

Module No. 2: Monetary Policy	08
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Introduction - Meaning-objectives-qualitative & quantitative measures for credit control. Influence of policy rates of RBI: Repo-Reverse repo- Marginal standing facility and Bank rate. Influence of reserve ratios of RBI: CRR-SLR-Exchange rates-lending/deposit rates-design & issues of monetary policy-LAF - RBI Role, functions and its Governance

Module No. 3: Fiscal Policy	08
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Introduction - Meanings-objectives- public expenditure-public debt-fiscal & budget deficit-Keynesian approach-fiscal policy tools-fiscal policy effects on employment-supply side approach-design & issues of fiscal policy-fiscal budget- Role of Ministry of Finance in Fiscal Policy.

Module No. 4: Inflation, Unemployment and Labour market	08
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Introduction - **Inflation:** Causes of rising & falling inflation-inflation and interest rates-social costs of inflation; **Unemployment** - natural rate of unemployment-frictional & wait unemployment. Labour market and its interaction with production system; Phillips curve-the trade-off between inflation and unemployment-sacrifice ratio-role of expectations adaptive and rational

Module 5: Financial Sector Reforms:	08
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Introduction - Financial sector reforms - Recommendation & action taken -SARFESI Act-Narasimham Committee I & II- Kelkar Committee- FRBM Act - Basel-BIS-history-need-mission-objectives-Basel norms I, II & III- criticism of Basel norms-Implementations of Basel norms in India- impact of Basel norms on Indian banks.

Skill Development Activities:
 1. Collect last ten year GDP rate and examine the same.
 2. Collect last two years monetary policy rates of RBI and analyse the impact of the

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Syllabus:		Hours
Module No. 1: Fundamentals of India Economy		10
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Introduction - Financial sector reforms - Recommendation & action taken -SARFESI Act-Narasimham Committee I & II- Kelkar Committee- FRBM Act - Basel-BIS-history-need-mission-objectives-Basel norms I, II & III- criticism of Basel norms-Implementations of Basel norms in India- impact of Basel norms on Indian banks.		
Skill Development Activities:		
1. Collect last ten year GDP rate and examine the same. 2. Collect last two years monetary policy rates of RBI and analyse the impact of the		



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same.

3. Collect last five years fiscal policy of Indian Government and analyse the impact of the same on rural poor.
4. Collect last five year data on inflation, unemployment rate and labour market conditions and critically prepare the report.
5. Identify the recent financial sector reforms in India.
6. Any other activities, which are relevant to the course.

Text Books:

1. V K Puri and S K Mishra, Indian Economy, HPH.
2. Datt and Sundharam's, Indian Economy, S Chand
3. Ramesh Singh, Indian Economy, McGraw Hill education.
4. Khan and Jain, Financial Services, Mcgraw Hill Education, 8th edition
5. RBI working papers
6. Mistry of Finance, GOI of working papers
7. SEBI Guidelines Issued from time to time.

Note: Latest edition of text books may be used.



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Course Content for 'Financial Education and Investment Awareness'
Theory Content

Module No.	Theory Content under the Module	Duration
One	<p>Foundations for Finance</p> <p>Introduction to Basic Concepts: Understand the need for financial planning – basic concepts – life goals and financial goals – format of a sample financial plan for a young adult</p> <p>Economics: Meaning – scope – key concepts influencing decision making both micro & macro</p> <p>Banking in India: Types of Bank Deposits, Deposit Insurance (PMJDY). Traditional and New Banking Models. Debit and Credit Cards. Digital Payment System – Internet Banking (NEFT, RTGS and IMPS), Mobile Banking, Mobile Wallet, AEPS, UPI</p> <p>Orientation to Financial Statements: financial terms and concepts, model for reading financial statements, basic ratios for evaluating companies while investing – Time Value of Money – Concept of Compounding and Discounting</p>	4 hours
Two	<p>Investment Management</p> <p>Investment Goals: Basic investment objectives – Investment goals – time frame – assessing risk profile – concept of diversification – risk measurement tools</p> <p>Investment and Saving Alternatives for a Common Investor: Insurance – Health, Life and Other General Insurance (Vehicle Insurance, Property Insurance, etc), Retirement and Pension Plans – National Pension System, Atal Pension Yojana, PM-SYM Yojana, PMLVMY PMKMDY etc., Stocks, Bonds, Mutual Funds. Investor Protection and Grievance Redressal</p> <p>Stock Markets: Primary Market and Secondary Market, Stock Exchanges, Stock Exchange Operations – Trading and Settlement, Demat Account, Depository and Depository Participants.</p> <p>Stock Selection: Fundamental Analysis – Economy Analysis, Industry Analysis and Company Analysis. Technical Analysis – Graphical Patterns, Candle-stick Patterns, Indicators and</p>	8 hours



	Oscillators	
	Stock Return and Risk: Analysing risk and returns trade off-relationship-investment risk	
Three	<p>Mutual Funds and Financial Planning Essentials</p> <p>Mutual Funds: Features of Mutual Funds, Mutual Fund History in India, Major Fund Houses in India and Mutual Fund Schemes. Types of Mutual Fund Plans. Net Asset Value.</p> <p>Criteria for selection of Mutual Funds: Returns, Performance Measures – Sharpe, Treynor, Alpha, Beta and r^2</p> <p>Financial Planning: Sample formats – Integrating all the concepts learnt with a personal financial plan</p> <p>Giving and supporting: Family support – charitable giving – crowd sourcing for needs</p>	3 hours

Practical Content

Module No.	Practical Coverage under the Module	Duration
One	<p>Foundations for Finance</p> <ul style="list-style-type: none"> • Spreadsheet Modelling: <ul style="list-style-type: none"> • IF Function • SUM Function • AVERAGE Function • INDEX, MATCH and VLOOKUP Function • RANK Function • SUMPRODUCT Function • MAX & MIN Function • ERRORS in Modeling (#VALUE!, #NAME?, #DIV/0!, #REF!, #NUM!, #NA) • PRESENT VALUE Functions • FUTURE VALUE Functions • ANNUITY Functions • PERPETUITY Functions • Statistical Functions in Excel • Financial Statements in Excel 	7 hours
Two	<p>Investment Management</p> <ul style="list-style-type: none"> • Administering Risk Tolerance Tool 	17 hours



	<ul style="list-style-type: none"> • Group Presentations on Investment Alternatives (Advantages, Suitability and Limitations) • Demonstration of Stock Trading • Economy Analysis (www.tradingeconomics.com) • Industry Analysis (www.ibef.org) • Company Analysis (www.valueresearchonline.com) • Spreadsheet Modelling for Stock Valuation (Dividend Discount Model, Free Cash Flow and Relative Valuation) • Demonstration of Technical Analysis and Exercises (NSE – TAME) • Spreadsheet Modelling for calculating Stock Return, Risk and Beta 	
Three	<p>Mutual Funds and Financial Planning Essentials</p> <ul style="list-style-type: none"> • Identification of Fund Houses in India, Schemes and Plans of each Mutual Fund House (www.amfiindia.in , www.valueresearchonline.com) • Exercises on Calculation of Net Asset Value • Demonstration of Mutual Fund Fact Sheet • Exercises on reading performance measures and selection of Mutual Funds • Preparation of Financial Plan 	6 hours

References

1. RBI Financial Education Handbook
2. NSE Knowledge Hub, AI-powered Learning Experience Platform for BFSI
3. NSE Academy Certification in Financial Markets (NCFM) Modules:
 - a. Macroeconomics for Financial Markets
 - b. Financial Markets (Beginners Module)
 - c. Mutual Funds (Beginners Module)
 - d. Technical Analysis

Text Books:

S. No	Author/s	Title of the Book	Publisher
1	Prasanna Chandra	Financial Management	McGraw Hill Education
2	Aswath Damodaran	Corporate Finance	John Wiley & Sons Inc
3	Pitabas Mohanty	Spreadsheet Skills for Finance Professionals	Taxmann Publications
4	Fischer & Jordan	Security Analysis & Portfolio Management	Prentice Hall



Websites:

1. www.sebi.gov.in
2. www.nseindia.com
3. www.amfiindia.com

Question Paper Pattern

1. Internal Assessment – 20 marks (based on practical lab-based assignments)

2. End Semester Exam – 30 marks

Section A: 4 out of 5 questions (2 marks each) $4 \times 2 = 8$ Marks

Section B: 2 out of 3 questions (6 marks each) $2 \times 6 = 12$ Marks

Section C: Compulsory:

Analysis of One Case (or) Two Case-lets $1 \times 10 = 10$ Marks

Pedagogy


1. Highlights of the contents of interactive E-workbook

- Micro and Macro-Indicators affecting Personal Financial Planning
- Financial plan templates with examples/ scenarios
- Financial Goal setting / Financial Goals Worksheet
- Stock Selection
- Criteria for selection of Mutual Funds
- Investment options for young adults who enter professions
- Financial security worksheet
- Glossary of must know key terms

2. Online Diagnostic Assessments / Instruments

Type	Method	Outcome
Quiz	Flash cards and games	Instructive and persuasive for behavioural change
Projections	Personal Budget based assessment	Assimilation, application and retention through case scenarios
Preassessments	Financial life skills Investor Risk Profile Risk Measurement Skills	Benchmark knowledge according to the requirements of the age and situation
Psychometric assessments	Financial stress scale	Create follow up assignments that sustain changed behaviours

3. 10 Recorded self-help videos 12 minutes each from experts


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Implementation Plan

1. On the approval of the Course Outline and Assessment Mechanism by the Council, NSE Academy - in association with universities, will delegate Nodal Officers for the implementation of the Program.
2. With the help of the Nodal Officers, NSE Academy will invite nominations from colleges and institutions for the Train the Trainer Programs (both physical and virtual).
3. The faculty members will undergo a rigorous training in TTT and also an assessment leading to a joint Certification from NSE Academy and the corresponding university.
4. NSE Academy will support the faculty members through specially created courses on NSE Knowledge Hub.
5. NSE Academy will also support the faculty members with comprehensive training material and facilitator aids for training the students.
6. Additionally, the Commerce and Management faculty members will be supported with continuous learning programs on NSE Knowledge Hub, on relevant topics.
7. NSE Academy will design, develop and provide customized student-friendly interactive workbooks (digital) that will support classroom learning as formative assessment.
8. NSE Academy will issue model question papers for the assessments to the Nodal Officers / CoEs of the Universities. The Universities may in turn conduct assessments for the students, evaluate and submit results to the Council and NSE Academy.
9. Based on the assessment results submitted by the Universities / Colleges / Institutions, NSE Academy will issue a Course Completion Certificate jointly with the corresponding university.
10. NSE Academy will support faculty members on research topics through research workshops on quantitative and qualitative research.
11. NSE Academy will confer the 'Best Research Proposal Award' for the faculty members
12. NSE Academy will invite (from students) and select five best project proposals for award.