B.A/B.SC - ANTHROPOLOGY

PROGRAM OUTCOME:

B.A./B.Sc in Anthropology programme is a three-year course in yearly mode.

- The students of B.A/ B.Sc Anthropology will learn about what is Anthropology? , its holistic nature and applied aspects.
- Student will well-equipped with scientific knowledge of bio-cultural evolution, human variation and comprehensively understand the anthropological concepts and theories relating to culture.
- They will be familiar with the knowledge of Anthropological fieldwork tradition, data collection techniques & methodologies.

Course Outcomes:

B.A. / B.Sc.-I

Subject: Anthropology

Paper-I: Foundation of Anthropology

Study about almost all branches of Anthropology is physical, social, cultural and archaeology.

Paper-II: Physical / Biological Anthropology

Know about evolution and distribution of human population.

Practical

This paper covers study of human bones & also applied field like Craineometry and Somatometry.

B.A. / B.Sc.-II

Subject: Anthropology

Paper-I: Archeological Anthropology

Study of past human culture which enables the students to understand present cultures in a better way.

Paper-II: Tribal Culture of India

Acquire knowledge about tribal cultures in respect to family, marriage, worship economic, political, religion organization and present government policies for their development.

Practical

In this paper student will acquire knowledge regarding Paleolithic Mesolithic & Neolithic tools and it also ensure the students to study tribal material culture.

B.A. / B.Sc.-III

Subject: Anthropology

Paper-I: Fundamentals of Human Genetics, Human Growth and nutrition.

Acquire basic knowledge of genetics and importance of growth, Ecology and Demography.

Paper-II: Theories in Social - Cultural Anthropology Know about cultural Anthropology with different theories & contribution of famous Anthropologist in the field of social culture Anthropology.

Practical

This paper deal with Somatometry genetics, Blood group Dermatoglyphics and basic Statistical tools

Course outcome of B.Sc. I Botany

Paper-I Viruses, Botany, fungi, Lichens and Algae.

On Completion of the course, students are able to:-

Co 1. Understand the scope of microbiology in terms of human welfare.

Co2 Understandtheroleofviruses,bacteria,cyanobacteria,bacteriophage. Co3 Understandthediversityamong algae.

Co4 Knowthesystematic,morphologyandstructureofalgae. Co5 Understandthelife cycle ofalgae.

Co 6 Student will be able to life cycle and disease of fungus.

Co 7 Know the systematics, Structure, economic importance of lichens.

Co8 Students will be able to understand importance of mushroom technology

Program Specific Outcome of B.Sc. Botany

- To developed scientific temperament.
- To provide knowledge of scientific as pets of Botany.
- To developed critical thinking a.
- To demonstrate the use of scientific method.

Paper-II Bryophytes, Pteridophytes ,Gymnosperms and Palaeobotany.

On Completion of the course, Students are able to:-

Co 1. Understandthemorphologicaldiversity of bryophytes, pteridophytes, and Gymnosperms.

Co2 Understand the economic importance of bryophytes, pteridophytes and Gymnosperm.

Co 3 Knowevolution during different era of geological timescale. Co 4 Understand about fossilization methods.

Co5 Knowthescopeof Palaeobotanytypesoffossilsitsroleingeological time scale.

Co 6 Understand the various fossils genera representing different fossil groups.

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PRACTICALB.Sc. – I Botany

Co 1 Students will be able to study Practically algae, fungi, Bryophyte Pteridophyts and Gymnosperms.

Co 2 Students will be able to morphological, Anatomical study by practically of algae, fungi, Bryophyte, pteridophyticand Gymnospermicplantor plant body

Course Outcome of B.Sc. – II Botany

Paper- I Plant Taxonomy, economicbotanyplantanatomyand embryology. On completion of the course, students are able to

- Understandtheclassificationand Binomialnomenclature.
- Understand the international code of nomenclature for algae, fungi and plants.
- Understandtheplantmorphologyandbasic taxonomy.
- Know the economic importance some valuable fiber yielding, timber yieldingmedicinalplants, spicesplantsandbodiessealplants.
- Understandthebasicconcept of plantanatomye.g. Monocot, Dicote, Root, Stem, &Leaf.
- Understand the basic concept of embryology.

Paper-II Ecology& Plant Physiology.

On completion of the course, students are able to

- Understand the aims and scope of ecology.
- Knowthedifferentecologicalfactorssuchasbioticofabioticfactors.
- Understand the adaptation of the to various conditions
- Understand the concept of ecosystem and its function.

- Know the energy flow, food chain, and food web.
- Understandtheecologicalsuccessionbiochemicalcycle.
- Know importance of plant physiology.
- Learnandunderstandaboutmineralnutation,andplantwaterrelation.
- Understand the photosynthesis, C3andC4 pathway.
- Understand the respiration in higher plants.

PRACTICALB.Sc. – II Botany

Co1Studentswillbeabletounderstandandperformpracticalrelatedto plant description, Plant anatomy, Plant embryology, photosynthesis, respiration, Diffusion andOsmosis.

Course Outcome of B.Sc. – III Botany

Paper- I Analytical technology, Plant Pathology Experimental Embryology, Elementary biostatics Environmental pollution and conservation.

On completion of the course, students are able to:-

Co 1.Understand about principle and application of analytical instruments eg.chromatography incubator, autoclave, spectrophotometer and microscopy .
Co2 Understandthesignificanceanddifferenttypeofplanttissuecutler.
Co 3 Understand the principles, general symtomes,and their controle methodofbacterial,viralandfungale diseaseinvolublecropplants .
Co4 Understandtheenvironmentalpollutionandtheircontrolemethod. Co 5 Understandtheintroduction andapplicationof Biostatics.
Co 6 Understand the measure of central tendency and measures of dispersal.

Course Outcome of B.Sc. – III Botany

Paper- II Genetics, Molecularbiology,BiotechnologyandBiochemistry. On completion of the course, Students areable to:-

Co1.Understandaboutcellwall, plasmamembranecell 0rganellsandcell division.
Co2 Understand about gene concept, Mendelslow‘s, and chromosomalaberration.
Co 3 Learn the scope and importance of molecular biology.
Co 4 Understand the importance of Biotechnology in human welfare.
Co5 Understandaboutbiochemicalnatureofnucleicacid,theirroleinliving system.
Co6 Understandtheprocessofproteinsynthesis androleofgeneticcode. Co7Understandaboutconceptof enzymeactivityandenzymeinhibitory

PRACTICALB.Sc. – III Botany

Co 1 Studentswill be able tounderstandandperformpractical on tissue culture.
Co 2 Studentswill be abletounderstandandpracticallyperformbasic concepts analyticalinstruments.
Co 3 Students will be able to understand and perform practically basic concepts of viral, fungal and bacterial disease.

COURSE OUTCOME OF M.Sc. – Ist Sem BOTANY

Paper- I Code –**MBT101** (Cell and Molecular Biology) Oncompletionofthe course,Studentsareableto:-

Co 1. Understand to modern tools and technique of cell biology.
Co2 Understandaboutcellcomponentandtheirfunctioncellmultiplication and turnover.
Co3 Understand about gene structure regulation and gene expression in eukaryotes.
Co4 Understand about cellorganellar genome such as mitochondrial and chloroplast gene.

COURSE OUTCOME OF M.Sc. – Ist Sem BOTANY

Paper- II Code–**MBT102** (Geneticsandcytogenetic) On completion of the course, Students are able to:-

Co1.Understand about microbial genetics and Mendelian and Non-Mendelianin heritage.
Co2 Understand about Eukaryotic genome and basic concept of linkage mapping.
Co 3 Understand basic concept of mutation.
Co 4 Understand the basic concept of cytogenetics.

COURSE OUTCOME OF M.Sc. – Ist Sem BOTANY

Paper- III Code– **MBT103**(Physiologyand Biochemistry) Oncompletionofthe course,Studentsareableto:-

Co 1. Understand basic concept of plant physiology and Biochemistry .
Co2 Understand the hierarchical structure of protein and enzyme technology.
Co3 Understand the concept of plant hormones and other growth regulators.
Co 4 Understand the physiology of plantreproduction.

COURSE OUTCOME OF M.Sc. – IstSem BOTANY

Paper- V Code– **MBTA02** (Recombinant DNATechnologyandProteomics) On completion of the course, Students are able to:-

Co1.Understandthe concept of recombinant DNAtechnology. Co2 Understandtheconceptof DNAandDNAsequencing.
Co3 Understandtheconceptoftranslation&pasttranslationinprokaryotesandeukaryotes.
Co 4 Understand the concept of Electrophoresis, and chromatography.

PRACTICAL

Co 1. Practically Understandaboutisolation of mitochondria, chloroplast. Co 2. Practically Understandabout differentstagesofmitoticcelldivision. Co3 PracticallyUnderstandaboutExtractionofgenomefromplant cell.

COURSE OUTCOME OF M.Sc. – IIndSem BOTANY

Paper-I Code–**MBT201**(Developmentalbiology) Oncompletionof thecourse, Students areable to:-

Co1.Understand comparative morphology and developmental anatomy ofBryophyte and pteridophtic plants.
Co 2 Understand the concept secondary growth and wood formation in vascular plants.
Co3 Understandtheconceptofembryogenesisinvascularplants. Co4 Understandthebasic conceptofpollen-pistilinteraction.

COURSE OUTCOME OF M.Sc. – IIndSem BOTANY

Paper- II Code– **MBT202** (Pathogensandpests of cropplants) On completionofthe course, Studentsareableto:-

Co1 Understand thegeneralcharacteristicsofpestincropplants. Co2 Understandcrop pathogenic organism.
Co3 Understand basic concepts of plant pathogen interactions in crop plants.
Co4 Understand basicconceptsofcontrolmechanism ofbacterial,fungal, insects and nematode disease in cropplants.

COURSE OUTCOME OF M.Sc. – IIndSem BOTANY

Paper-III Code – **MBT203** (Biotechnology and resource utilization) On completion ofthe course, Studentsareableto:-

Co 1 Understand the various concept of plant tissue culture.

Co 2 Understand the various concept of gene transfer technology. Co 2 Understand the importance of economically important plants.

COURSE OUTCOME OF M.Sc. – IIndSem BOTANY

Paper- IV Code – **MBTB-02** (Systematics, Evolution and Environmental Science)
Oncompletionofthecourse,Studentsareableto:- Co1 Understandbasic conceptofsystematicsbotany.
Co2 UnderstandbasicconceptofEnvironmentalScience. Co 3 Understand basic concept of Ecosystems.
Co4 UnderstandbasicconceptofHumanhealthandenvironmentalchange. Co 5Understandbasicconcept of natural resourcesandtheirmanagement.

POJECT WORK:- Skill development and social outreach.
Co1 Students will be able to studyenhance practical skills and engage in societythroughthisskill developmentandsocialoutreachCouseof.

PRACTICAL

Co 1. Practically Understand morphology and anatomy of bryophytic plants.
Co2.Practically Understand about Xerophyte, Hydrophyt and halophyte plants.
Co 3 Practically Understand about basic concepts of sterilization method of culture media.
Co 4 Practically Understandaboutdiseasesymptom of different cropplants.
Co5 Practically Understand about basic concepts of culture media preparation.

COURSE OUTCOME OF M.Sc. – IIIrdSem BOTANY

Paper- I Code – **MBT301** (Algae EnvironmentHuman welfare.) On completion of the course, Students are able to:-

Co 1. Understand diversity and distribution of the algae.
Co2 Understandaboutrecentdevelopment of Algalclassification. Co3 Understandabout Algal culturetechnique.
Co 4 Understand about industrial use of seaweeds and other algal sps.

COURSE OUTCOME OF M.Sc. – IIIrdSem BOTANY

Paper- II Code – **MBT302** (Principles of Ecology) On completion of thecourse, Students areable to:-

Co1.Understandthebasicconceptof Ecology. Co2 Understandthe aimsandscopeofEcology.
Co3 UnderstandtheEnvironmentalstressandtheirmanagement. Co 4 Understandtheconcept of Biodiversityand its conservation.

COURSE OUTCOME OF M.Sc. – IIIrdSem BOTANY

Paper- III Code– **MBT303** (Advancesin Archegoniate) Oncompletionof thecourse,Studentsareableto:-

Co 1. Understandaboutearlylandplantsandtheirroleinecosystem. Co 2 Understandthebasicconcept of pteridophytes.
Co 3 Understand the concept of gymnosperm.
Co 4 Understand the evolution of pollination mechanism and embryogeny of Gymnosperms.

COURSE OUTCOME OF M.Sc. – IIIrdSem BOTANY

Paper-V Code – **MBTC02** (Microbs and Microbial Technology) On completionofthe course, Studentsareableto:-

Co 1. Understand the Diversity of the microbial world.
Co 2 Understand the agricultural important of microorganism.
Co 3 Understand the basic concept of Environmental microbiology.
Co 4 Understand the basic concept of food and Industrial microbiology.

PRACTICAL

Co 1. Practically Understand about different type of fresh water algae.
Co2.Practically Understandaboutphysicalandchemicalcharacters of soil.
Co3 Practically Understand about density, frequency and abundance in plant community.
Co4 Practically Understand about cytological study of bryophytic and pteridophytic plant.

Program specific outcome of M.Sc. Botany

The M.Sc. Botanycurriculum is designed to equipstudents withsubject domain knowledge and technical skills pertaining to plants in a holistic manner,Itisaimstotrainthestudentinallthe areasofplant sciencewitha unique combination of care and Elective papers with significant interdisciplinaryComponents asCBCS,Theyaremadeawareaboutthesocial andenvironmentalissue,Significanceofplantsandtheirrelevanceto the national economy.

POs.1 A student completing the course is able to understand differentbranches of botany such as cell and molecular biology evolutionary biology , developmental biology physiology and biochemistry., genetic and Molecularbiology.

POs.2 They becomes competent enough in various analytical and technical skills related to plant science.

POs. 3 TheStudentscompletingtheprogramisabletoidentityvarious plants,designandexecute experimentsrelatedtobasicstudieson evolution, ecology, developmental biology, physiology, Biochemistry. Molecularbiology, Genetics, Biotechnologyandthe application ofstatics.

POs. 4 The Students completing the program is capable to perform short researchprojectusingvarious toolsandtechniqueinplantscience anddevelopment scientific temperament and research attitude.

M.Sc.4th semester (Botany)

Paper -1 (In Vitro Technology and Industrial applications)

CO1- Students will be able to understand micropropagation of various plants.

CO2- Students will be able to understand problems in plant tissue culture system.

CO3- Students will be able to understand use of bioreactor for secondary metabolite production.

Paper -2 (Reproductive Biology of Flowering plants)

CO1- Students will be able to understand plant embryology of flowering plants. Paper – 3 (Molecular

interactions of plants with symbionts, pathogens and pests)

CO1- Students will be able to understand molecular interaction of plants with symbionts, pathogens and pests.

Paper – 4 (Agriculture ecology- principle and application)

CO1- Students will be able to understand principles and application of agricultural ecology.

Paper 5 – Dissertation Work –

CO1- Through dissertation work students will be able to enhance scientific temper, research skill, critical think and analyze.

NEW

COURSE OUTCOME OF M.Sc. – IstSem BOTANY

Paper- I Code – **MBT101** (Microbiology)

On completion of the course, Students are able to:-

Co1 UnderstandbriefideaofmicrobesandBerge'smanual. Co2 UnderstandBacterial genetisandgeneticrecomleination. Co 3 Understand viruses andviral genome.

Co4 Understandbasicconceptofbacterialculturemediasterilization and culture methods.

PRACTICAL

Co1.Practically Understand about anatomyof important algal and fungal plants.

Co 2. Practically Understand about Morphology and anatomy of Bryophyte, Pteridophyte and Gymnosperms.

Paper- II Code – **MBT102** (Phycology)

On completion of thecourse, Students areable to:- Co1 Understandbasic conceptofAlgae.

Co 2 Understand Economic importance of Algal technique.

Co 3 Understand Thallus and cellular structure of cyanophyta.

Co4 Understand brief account of prochlorophytaEuglenophyta, Xanthophyta, etc.

PRACTICAL

Co 1. Practically Understand about Floral description.

Co2.PracticallyUnderstandaboutDemonstrationofPhotosynthesisand respiration.

Co3.PracticallyUnderstandaboutdeterminethe Density, Frequencyand Abundance.

Paper- III Code – **MBT103** (Mycology)

On completion of the course, Students are able to:-

Co 1 Understand basic concept and Economic imp.offungi.

Co2 UnderstandGeneralaccountofMyxomycotina,Mastigomycotina And other classes of fungi.

Co 3 Understand basic concept of Deuteromycotina.

PRACTICAL

Co 1. Practically Understand about basic concept of tissue culture.

Co2.PracticallyUnderstandaboutbasicconceptofanalyticalinstruments.

Paper- IV Code – **MBT104** (Bryophytes of Pteridophytes) On completion of the course, Students are able to:-

Co 1 Understand general accountof algae and pteridophtes.

Co2 Understand comparative account of different classes of Bryophyte.

Co3 Understandbasicconceptof pteridophytes. Co4 Understandabout earlyvascularplants.

Paper- V Code– **MBT105** (Gymnospermsand Palaeobotany) On completionofthe course, Studentsareableto:-

Co 1 Understand basic concept of Gymnosperms.

Co 2 Understand comparative marphogy, anatomy in various groupof pteridophyta.

Co 3 Understand basic Geologicalinformation.

Co4 Understand applied palaeobotanylefe as fuel. Maker, and application ofpalaeopalynotogy.

PRACTICAL

Co1.PracticallyUnderstandaboutdifferentplantdiseasesymptoms. Co 2. Practically Understand aboutdifferent Ethno-botanicalplants.

DEPARTMENT OF CHEMISTRY

Program outcomes, Program-specific outcomes, and Course outcomes for UG and PG Chemistry

B.Sc. Chemistry

Program outcomes for UG:

After successfully completion of the three-year degree program in chemistry students will be able to learn:

B.Sc. Chemistry	
PO-1	To validate the procedural professional knowledge in the field of chemistry. Knowledge of Chemistry is also necessary for the productivity development and management of industry, manufacturing of several drugs and pesticides.
PO-2	To gain dynamic skills and the ability to identify problems and solutions in daily life.
PO-3	Developing skills and ability to know about several fields of chemistry and research areas of Chemistry.
PO-4	Suggest the impact of educational programs in the field of Chemistry and explore the constructs and techniques.
PO-5	To become an expert in chemistry and settle the new chemistry approach to develop the ecology, green chemistry and solved the problems of environment, etc.

Program-specific outcomes for UG:

After successfully completion of the three-year degree program in chemistry students will be able to learn:

B.Sc. Chemistry	
PSO-1 Inorganic chemistry	To understand the atomic structure, periodic properties, bonding, periodic properties, the chemistry of transition series elements, various theories in coordination chemistry, organometallic chemistry, lanthanide, actinides elements, concepts of acids, bases, and non-aqueous solvents, and bioinorganic chemistry.
PSO-2 Organic Chemistry	Gain the knowledge of the basics of organic chemistry, the concept of aromaticity stereoisomers, aromaticity, electrophilic aromatic substitution reaction, properties of organic halides, alcohols, phenols, aldehydes, ketones, carboxylic acids, nitrogen compounds, heterocyclic compounds, organic synthesis via enolates, biomolecules, a basic principle of Infrared spectroscopy, UV-visible spectroscopy, and NMR spectroscopy.

PSO-3 Physical Chemistry	To understand the Basic Mathematical Concepts, gaseous state, liquid state, colloids, surface, solid state chemistry, chemical kinetics, catalysis, thermodynamics, chemical equilibrium and ionic equilibria, phase equilibrium, laws of photochemistry, quantum mechanics, physical spectroscopy, and electrochemistry.
PSO-4 Laboratory courses	Gain knowledge of qualitative and qualitative analysis of inorganic mixtures. gravimetric analysis, volumetric analysis, demonstration of laboratory glassware and types of equipment, qualitative analysis of elements (N, S, and halogens) and functional groups, preparation of organic compounds, surface tension measurements, viscosity measurement, and application of conductometry etc.

Course Outcomes for UG

B.Sc. First Year Chemistry

Course Outcomes After completion of these courses students will be able to learn:
Title of the paper

Paper-I Inorganic chemistry	
CO-1	To understand the atomic structure and periodic properties of elements in the periodic table.
CO-2	To understand ionic bonding and its properties.
CO-3	To understand covalent bonding and its properties.
CO-4	To know the gradation properties of the alkali, alkaline earth metals, and p-block elements.
CO-5	To know the Chemical properties of the noble gases, the chemistry of xenon, structure, bonding in xenon compounds, and basic principles involved in the analysis of cations and anions and solubility products.
Paper-II Organic chemistry	
CO-1	To understand the Basics of organic chemistry.
CO-2	Knows the basic concept of optical isomerism and geometrical isomerism.
CO-3	Conformational analysis of alkanes and their relative stability and energy diagrams.
CO-4	Chemistry of aliphatic hydrocarbons and their Carbon-Carbon sigma (σ) bonds and Carbon-Carbon Pi (л) bonds.
CO-5	To study aromatic hydrocarbons. Explain the aromaticity and electrophilic aromatic substitution reaction.
Paper-III Physical chemistry	
CO-1	To understand the Basic Mathematical Concepts.
CO-2	To learn the concept of gaseous state chemistry.
CO-3	To study the basic concept of the liquid state, colloids, and surface chemistry.
CO-4	To learn the concept of solid state chemistry.
CO-5	CO-5 To know the basic concept of chemical kinetics and catalysis.
Laboratory courses	
CO-1	To identify acidic and basic radicals from the given inorganic mixture.
CO-2	Identify the qualitative analysis of elements (N, S, and halogens) and functional groups.
CO-3	To find the percentage composition of a mixture containing an unknown composition made of acetone and ethyl/methyl ketone by viscosity method and determination of the surface tension by drop number method.

B.Sc. Second Year Chemistry

Course Outcomes After completion of these courses students will be able to learn:
Title of the paper

Paper-I Inorganic chemistry	
CO-1	To learn the chemistry of transition series elements.
CO-2	To understand oxidation, and reduction, Werner's theory, IUPAC nomenclature of coordination compounds, and isomerism in coordination compounds.
CO-3	To know the valence bond theory and the crystal field theory of coordination chemistry.
CO-4	To understand the chemistry of lanthanide and actinides elements.
CO-5	To know the concepts of acids, bases, and non-aqueous solvents.
Paper-II Organic chemistry	
CO-1	To learn the chemistry of organic halides.
CO-2	To understand the physical and chemical properties of alcohols and phenols.
CO-3	Nomenclature, structure, and reactivity of aldehydes and ketones.
CO-4	Preparation, Structure and bonding, Physical and chemical properties of carboxylic acids and carboxylic acid derivatives.
CO-5	Structure, preparation, reactivity, and physical properties of organic nitrogen compounds.
Paper-III Physical chemistry	
CO-1	To understand the important thermodynamics, laws of thermochemistry, zeroth, and first law of thermodynamics.
CO-2	To learn the second and third laws of thermodynamics.
CO-3	To know the chemical equilibrium and ionic equilibria.
CO-4	To know the basics and properties of phase equilibrium.
CO-5	To learn the characteristics and laws of photochemistry.
Laboratory courses	
CO-1	To learn the volumetric analysis to the determination of acetic acid in commercial vinegar using NaOH, alkali content-antacid tablet using HCl, estimation of the hardness of water by EDTA, and separate the green pigment from spinach leaves by chromatography.
CO-2	Identification of compounds in the given organic mixture and determine the solubility of benzoic acid at different temperatures and determine ΔH of the dissolution process.
CO-3	Determination of the transition temperature of the given substance by the thermometric method and determination of the strength of succinic acid on critical solution temperature in the given phenol water system.

B.Sc. Third Year Chemistry

Course Outcomes After completion of these courses students will be able to learn: Title of the paper

Paper-I Inorganic chemistry	
CO-1	To learn the metal-ligand bonding in transition metal complexes.
CO-2	To understand the magnetic properties of transition metal complexes.
CO-3	To know the organometallic chemistry and catalysis by organometallic compounds.
CO-4	To understand bioinorganic chemistry.
CO-5	To know the concepts of hard and soft acids, bases, and inorganic polymers.
Paper-II Organic chemistry	
CO-1	To learn the classification and nomenclature, structure, synthesis, and physical properties of heterocyclic compounds
CO-2	To understand the organometallic reagent and some important organic synthesis via enolates.
CO-3	Occurrence, classification, and biological importance of biomolecules.
CO-4	To learn the synthetic polymers and synthetic dyes.
CO-5	To learn the basic principle of Infrared spectroscopy, UV-visible spectroscopy, and NMR spectroscopy.
Paper-III Physical chemistry	
CO-1	To understand the importance of quantum mechanics.
CO-2	To learn the basics of physical spectroscopy.
CO-3	To understand the importance of electrochemistry.
Laboratory courses	
CO-1	To learn the gravimetric analysis of some inorganic compounds and inorganic preparations of complexes.
CO-2	To learn the preparation of organic compounds, qualitative analysis of an organic mixture.
CO-3	To learn the application of conductometry to determine the strength of the given acid using a standard alkali solution.

M.Sc. Chemistry

Program outcomes for PG:

After successfully completion of two-year master's program in chemistry students will be able to learn:

M.Sc. Chemistry	
PO-1	To develop an understanding the fundamental knowledge of the basic principles in various fields of Chemistry.
PO-2	To develop an understanding of the use of chemistry in daily life.
PO-3	Work effectively in a multi-disciplinary environment.
PO-4	To inculcate interest in research among the students.
PO-5	It would help students to Have developed their critical reasoning, judgment, and communication skills.
PO-6	Exhibit positive attitudes and values toward the discipline, so that they can contribute to an increasingly complex and dynamic society.
PO-7	It would help students to communicate scientific information clearly and concisely both orally and in Writing.
PO-8	It would help students to collaborate effectively on team-oriented projects in the field of Chemistry or other related fields.
PO-9	Augment the recent developments in the field of green and eco-friendly reactions, pharmaceutical, supramolecular, bioinorganic Chemistry, and relevant fields of research and development.

Program-specific outcomes for PG:

After successfully completion of the two-year master's program in chemistry students will be able to learn:

M.Sc. Chemistry	
PSO-1	To study the concept of coordination chemistry, stability of the complexes, the stereochemistry of the complexes, structure, and bonding, theories of coordination complexes, and the chemistry of lanthanides, nanotechnology, and the use of inorganic compounds in biological chemistry.
PSO-2	To learn the concept of stereochemistry, conformation analysis, and their application in the determination of reaction mechanisms. To understand nucleophilic and electrophilic substitution, various types of reactions, rearrangements, and their synthetic utility.
PSO-3	To learn about chemical analysis, solvent extraction, separation technique, and spectroscopic technique.
PSO-4	Research methodology and computer application.
PSO-5	To learn about additives in drug analysis and synthesis.
PSO-6	To learn the various types of spectroscopy, thermodynamics, surface chemistry, and radiochemistry.
PSO-7	The aim of project work or fieldwork is to introduce students to research methodology in the subject and prepare them for pursuing research in theoretical experimental or computational areas of the subject.
PSO-8	To gain knowledge in the preparation, properties, characterization, and use of polymers.
PSO-9	To learn about the application of spectroscopy in various fields of inorganic chemistry.
PSO-10	To learn about the application of spectroscopy in various fields of organic chemistry.
PSO-11	To learn about the principle and application of photochemistry in various fields.
PSO-12	Intellectual property rights, human rights, and the environment
PSO13	To know eco-friendly methods of synthesis. This helps in planning the synthesis of any type of organic compound with a revolution of green chemistry.
PSO-14	To learn about trace metal ions, enzymes, and medicinal bioinorganic chemistry.
PSO-15	To learn about earth, biosphere, and pollution and its control.
PSO-16	Study of solid states.
PSO-17	To learn about photochemistry, excited states, and ligand field photochemistry.
PSO-18	To learn the practical experience of different quantitative and qualitative analyses in inorganic and organic areas.
PSO-19	To gain practical knowledge of organic preparations and extraction of natural products.
PSO-20	To gain practical knowledge of several instrumental experiments.

Course Outcomes for PG:

M. Sc. Chemistry First Semester

Course Outcomes After completion of these courses students will be able to learn:
Title of the paper

COURSE CODE - MSC101 CCC: Inorganic Chemistry-I	
CO-1	To learn the stereochemistry and bonding in main group compounds, quantum mechanics.
CO-2	To understand the reaction mechanism of transition metal complexes.
CO-3	To learn the chemical bonding, metal-ligand bonding
CO-4	To learn the metal complexes
CO-5	To understand the crown ether complexes, isopoly, and heteropoly acids and salts, inorganic polymer
COURSE CODE - MSC102 CCC: Organic Chemistry-I	
CO-1	To learn stereochemistry and conformational analysis.
CO-2	To know the reaction intermediate and elimination reaction.
CO-3	To know the aliphatic nucleophilic substitution reaction and aliphatic electrophilic substitution reaction.
CO-4	To know the aromatic electrophilic substitution reaction.
CO-5	To learn the aromatic nucleophilic substitution reaction and determination of reaction mechanism.
COURSE CODE - MSC103 CCC: Analytical Chemistry	
CO-1	To learn the fundamentals of chemical analysis
CO-2	To know the solvent extraction and inorganic reagents
CO-3	To learn the ion exchange techniques
CO-4	To know the separation techniques
CO-5	To learn the spectroscopic techniques
COURSE CODE-MSC111 CCC: Inorganic and analytical chemistry lab	
CO-1	To learn about qualitative and quantitative analysis of mixture. To identify acid Radicals from the given Inorganic mixture.
CO-2	Understand various methods for volumetric and gravimetric analysis of various chemical constituents.
CO-3	To learn some important preparation eg: synthesis of tris (Thio-Urea) copper(I) sulphate.
CO-4	To determine the turbidity of the given water sample by using turbiditymetry.
COURSE CODE - MSCS01 OSC: Research methodology and computer application: basics	
CO-1	Understand the concept and place of research in the concerned subject. Gets acquainted with various resources for research.
CO-2	Becomes familiar with various tools of research and sampling techniques.
CO-3	Gets conversant with methods of research.
CO-4	To learn about techniques of analyzing data and various research writings
CO-5	Gets acquainted with computer fundamentals and office software packages.
COURSE CODE - MSCA04 ECC/CB: Medicinal chemistry	
CO-1	To know the principles and concepts of green chemistry.

CO-2	Becomes familiar with pharmaceutical chemistry.
CO-3	To know about antibiotic drugs.
CO-4	To learn the synthesis of some drugs.
CO-5	Gets acquainted with drug design.

M. Sc. Chemistry Second Semester Course After completion of these courses students will be able to learn: **Outcomes** Title of the paper

COURSE CODE - MSC201 CCC: Inorganic chemistry-II	
CO-1	To know the electronic spectra and magnetic properties of transition metal complexes
CO-2	To learn about metal clusters, acid, and base
CO-3	To know the chemistry of lanthanides, actinides, and nanotechnology.
CO-4	To learn about bioinorganic chemistry in the biological system
CO-5	To know the coordination chemistry with stereochemical aspects.

COURSE CODE - MSC202 CCC: Organic chemistry-II	
CO-1	To learn the addition of carbon-carbon and carbon-hetero multiple bonds.
CO-2	To know the oxidations and reductions in organic chemistry.
CO-3	To learn about molecular rearrangements
CO-4	To learn about aromaticity and non-benzoids compounds.
CO-5	To know the selected organic reagent, organometallic compound, and catalysis.
COURSE CODE - MSC203 CCC: Physical chemistry	
CO-1	Gets acquainted with microwave spectroscopy and infrared spectroscopy.
CO-2	Understand the electronic spectroscopy of molecules and Raman spectroscopy.
CO-3	Understand thermodynamics, chemical kinetics, and surface chemistry.
CO-4	To know about radiochemistry.
CO-5	Applications of radioactivity.
COURSE CODE - MSC211 CCC: Physical and organic chemistry lab	
CO-1	To learn about surface tension to determine the composition of a given unknown solution by stalagmometer.
CO-2	To learn about Qualitative analysis to identify the functional group in a given organic mixture.
COURSE CODE - MSC02 CCC: Social outreach and skill development	
CO-1	The aim of project work or fieldwork.
CO-2	Introduce students to research methodology in the subject
CO-3	To prepare the student for pursuing research in theoretical experimental
CO-4	To prepare the student for computational areas of the subject.
COURSE CODE - MSCB04 ECC/CB: Applied Chemistry	
CO-1	To learn the Chemistry of water analysis.
CO-2	To know the analysis of fertilizers and pesticides.
CO-3	To learn the Chemistry of polymer, soap, and detergents.
CO-4	To know petroleum, gas fuels, and petrochemical analysis.
CO-5	To learn about the Chemistry of environmental pollutants and the chemistry of materials

M. Sc. Chemistry Third Semester

Course Outcomes After completion of these courses students will be able to learn:
Title of the paper

COURSE CODE - MSC301 CCC: Application of spectroscopy- Inorganic chemistry	
CO-1	To learn the application of atomic absorption, atomic emission, plasma emission, flame emission, photoelectron spectroscopy and their application and Raman spectroscopy in inorganic spectroscopy.
CO-2	To learn the vibrational spectroscopy
CO-3	Understand the concept of electron spin resonance spectroscopy
CO-4	To learn nuclear magnetic resonance spectroscopy in the area of inorganic chemistry.
CO-5	To learn to understand the concept of Mossbauer spectroscopy
COURSE CODE - MSC302 CCC: Application of spectroscopy- Organic chemistry	
CO-1	To learn ultraviolet and visible spectroscopy.
CO-2	To learn mass spectrometry.
CO-3	Understand the concept of Infrared spectroscopy
CO-4	Understand the concept of Nuclear magnetic resonance spectroscopy
CO-5	To learn the carbon-13 NMR spectroscopy
COURSE CODE - MSC303 CCC: Photochemistry and pericyclic reaction	
CO-1	Understand the concept of the Basics of photochemistry
CO-2	To learn the photophysical processes in the excited state, the excited state of metal complexes.
CO-3	Understand the concept of Photochemistry of carbonyl compounds and alkenes
CO-4	To know the photorearrangement and reactions and application of photochemistry
CO-5	To learn the pericyclic reactions
COURSE CODE - MSC311 CCC: Organic chemistry lab	
CO-1	To gain practical knowledge of organic preparations.
CO-2	To learn the extraction of natural products eg: isolation of nicotine natural product from tobacco, isolation of caffeine from a given sample as tea, leaf or same natural.
COURSE CODE - MSCS03 OSC: Intellectual property rights, human rights, and environment: basics	
CO-1	To learn about the introduction, concepts, and historical overview of patents.
CO-2	To gain knowledge of copyright and their historical evolution.
CO-3	To learn about the rights and relation with life, liberty, equals, and the disabled.
CO-4	Understand the national human rights commission.
CO-5	To learn the right to the environment as a human right.
COURSE CODE - MSCC02 ECC/CB: Green chemistry	
CO-1	Principles and concept of green chemistry.
CO-2	Measuring and controlling environmental performance.
CO-3	Emerging green technology and alternative energy sources.
CO-4	To learn renewable resources.
CO-5	To know about industrial case studies.

M. Sc. Chemistry Fourth Semester

Course Outcomes After completion of these courses students will be able to learn:

Title of the paper

COURSE CODE - MSC401 CCC: Bioinorganic chemistry	
CO-1	To learn about the essential and trace metal ions
CO-2	To gain knowledge of respiratory protein
CO-3	Understand the metalloenzymes (redox and non-redox) / metal ion transport and storage.
CO-4	To learn about the nitrogenase enzyme
CO-5	To learn about medicinal bioinorganic chemistry/chelation therapy.
COURSE CODE - MSC402 CCC: Environmental chemistry	
CO-1	To learn the atmospheric chemistry
CO-2	Understand the air pollution
CO-3	To learn the water pollution and oxygen-demanding wastes.
CO-4	Understand the soil analysis and chemical toxicology
CO-5	To learn the noise pollution and industrial pollution.
COURSE CODE - MSC403 CCC: Solid state chemistry	
CO-1	Understand the solid state reactions
CO-2	To learn the powder compact reaction and solid-state defects
CO-3	Understand the electronic properties and band theory
CO-4	To learn the solid electrolytes
CO-5	Understand the magnetic and optical properties of solids.
COURSE CODE - MSC411 CCC: General chemistry lab	
CO-1	To gain practical knowledge of instrumental experiments.
CO-2	To learn the quantitative estimation of the mixture.
COURSE CODE - MSCS04 PRJ/SSC: Dissertation	
CO-1	Describe a suitable field of career development.
CO-2	Elucidate research methods and literature review.
CO-3	Seriously analyze and evaluate the knowledge and understanding in the best area of study.
CO-4	Integrate theory and practice. Develop responses based on the evaluation and analysis undertaken.
CO-5	Apply knowledge and understanding about the agreed area of study.
COURSE CODE - MSCD01 ECC/CB: Photo inorganic chemistry	
CO-1	To learn the basics of photochemistry
CO-2	Understand the ligand field photochemistry
CO-3	To learn the properties of excited states.
CO-4	Understand the redox reactions by excited metal complexes
CO-5	To learn the metal complex sensitizers.

PROGRAM OUTCOME AND COMMERCE COURSE OUTCOME (P.G)

PROGRAM OUTCOME

- After completing masters in commerce students are able to develop an ability to apply knowledge acquired in problem solving.
- Ability to work in teams with enhanced interpersonal skill and communication.
- The students can work in different domains like accounting, taxation, HRM, banking and administration.
- Ability to start their own business.
- Ability to work in MNCs as well as private and public companies.
- To develop team work, leadership and managerial and administrative skills.
- Students can go further for professional courses like CA/CS/CMA/CFA.

COURSE OUTCOME

YEAR	PAPER	COURSE NAME	COURSE OUTCOME
M.COM IST SEM	I	MANAGERIAL ECONOMICS	• Students will comprehend the concept of managerial economics and their role and responsibilities • Students will learn the various fundamental principles of economics like opportunity cost principle, equi-marginal principle etc • Learners will comprehend the knowledge about the law of demand, how elasticity of demand works and about various production function theories like law of variable proportions, return to scale. They will understand the various stages of production and will able to understand economies and diseconomies of scale in production. • Students will able to understand how the choices are made by a rational consumer. • Student will comprehend the knowledge of indifference approach, revealed preference theory.

	II	**MANAGEMENT ACCOUNTING**	• Students will be able to understand the basic concepts and importance & functions of Management Accounting. • Students will be able to differentiate between financial accounting, cost accounting and management accounting. • Students will comprehend the knowledge of various responsibility centres, its objectives and function. • Students will able to understand, develop and apply the techniques of management accounting in the financial decision making in the business corporate. • Students will comprehend the knowledge of various types of budgeting like zero-base budgeting, performance budgeting, fixed and flexible budgeting etc
	III	**RESEARCH METHODOLOGY**	• Students will develop understanding on various kinds of research, objectives of doing research, research process, research designs and sampling. • Students will comprehend the basic knowledge on qualitative research techniques. • Students will gain the adequate knowledge on measurement & scaling techniques as well as the quantitative data analysis. Students will gain basic awareness of data analysis-and hypothesis testing procedures
	IV	**ADVANCED ACCOUNTING**	• Students understand the nature and importance, practices of company accounts and to understand set up of accounts of companies. • Demonstrate a comprehensive understanding of the advanced issues in accounting for assets, liabilities and owners equity. • Record and illustrate the effects of a range of advanced financial accounting issues.
	V	**PRINCIPLE OF MARKETING**	• This course provides students with an overview of the marketing function with an emphasis on creating value through marketing, market research, consumer behaviour, pricing strategies, marketing channels and various methods of promotion.
M.COM 2ND SEM	I	**BUSINESS ECONOMICS**	• Students will acquire the knowledge about the types of cost and cost theory. • Students will learn the application of various laws and scale of production to maximize profit and scale of firm. • Students will comprehend the knowledge of identical Short Run and Long Run Equilibrium of a firm and industry and also about different market structure and various pricing techniques. • Students will learn various methods of pricing practices. • Students will learn the various stages of business cycle. They will also acquire the knowledge of inflation, its type and its effects on business.

	II	**ACCOUNTING FOR MANAGERIAL DECISION**	• Students will acquire the skill of financial analysis and will learn to prepare cash flow and fund flow statements. • Students will comprehend the knowledge of ratio analysis and core concepts of business finance and its importance in managing a business. • Students will learn the concept of activity based costing, quality costing, target and life costing and value chain analysis. • Students will able to understand, develop and apply the techniques of management accounting in the financial decision making in the business corporate.
	III	**SPECIALIZED ACCOUNTING**	• Student will learn to prepare bank balance sheet, royalty account, investment account etc • Students will be able to understand general insurance companies, double accounting system etc
	IV	**AVERTISING AND SALES MANAGEMENT**	• Student will comprehend the knowledge of advertising media, tole of advertising agencies. • They will learn how to select advertising agencies , make advertising budget, evaluate its effectiveness. • They will learn methods and procedure of personal selling, sales management etc.
M.COM- 3RD SEMESTER	I	**ADVANCED COST ACCOUNTING**	• Students will acquire the basic knowledge on cost accounting concepts, elements and classification of cost and overheads, levels of material control, purchase, stores control, EOQ, methods of valuing material issue. • Students will learn to classify costs and will be able to prepare cost sheet for manufacturing and trading concerns. • Students will be able to prepare process accounts and statement of joint products and by-products. They would also recall and discuss various concepts related to Process Costing. • Students will be able to evaluate the process losses, wastage, scrap, normal and abnormal losses and Reconcile the profits of Financial and Cost Accounting, Treatment of profits in Contract costing

	II	**INTERNATIONAL MARKETING**	• Students will be able to introduce themselves to the marketing opportunities available outside their home country. • Students will develop basic understanding of international marketing concepts, theories, principles, and terminology. • Students will be able to demonstrate an awareness and knowledge of the impact of environmental factors (cultural, economic, institutional, legal and political) on international marketing activities. • They will be capable of identifying international customers through conducting marketing research and developing cross-border segmentation and positioning strategies. • Students will be capable of developing a global marketing strategy by applying the basic concepts of product, pricing, promotion, and channels of distribution in international settings. • Students will learn the trends of foreign trade in India, various export procedures, documentation and EXIM policy in India
	III	**MANAGEMENT CONCEPT**	• By studying this course the skill of managerial abilities are developed in the students. • Develops the ability to motivate how tasks can be done.
	IV	**ORGANIZATION BEHAVIOUR**	• Students understand consumer behaviour science • Students understand the changing role of product, marketer and consumer • They understand consumer protection and business ethics
M.COM 4TH SEM	I	**CONSUMER BEHAVIOUR**	• Acquire the basic knowledge of consumer behaviour, culture, social class, consumer motivation, consumerism and consumer protection • Understand the need for studying consumer behaviour, consumer attitude, objectives of culture, characteristic feature of social class, consumer perception, consumer decision making and the importance of consumerism. • Application of consumer behaviour in marketing, consumer learning, consumer decision making and redressal of consumer disputes. • Analyse the consumer behaviour models, involvement of consumer decision making and reasons for slow growth of consumer movement. • Familiarize the process of consumer research, decision making process and legislation for consumer protection. • Gain confidence in creating consumer awareness in different categories of social class.

	II	**INVESTMENT MANAGEMENT**	• Students will acquire the basic knowledge of financial markets. • The will understand the difference between investment, gambling and speculation • They will gain the knowledge of valuation of securities like equity shares, preference shares, debentures and bonds
	III	**MARKETING RESEARCH**	• Students will acquire the basic knowledge of marketing research like marketing research process, problems, MIS system, data collection methods, techniques etc. • They will learn to analyse the data and prepare report. • They will gain the knowledge of new product research and how marketing research in India is done.
	IV	**CORPORATE LEGAL FRAMEWORK**	• Students will comprehend the knowledge of negotiable instruments act 1881, MRTP act 1969, SEBI act 1992 and will acquire the knowledge of company act 2013.

PROGRAM OUTCOME (BCA):

At the end of the three year BCA program the students will be able to:

- Understand, analyze and develop computer programs in the areas related to algorithm, web design and networking for efficient design of computer based system.
- Develop software projects in various languages as per the demand of the market.
- Develop live software projects and will be capable of working in IT companies.
- Work in the IT sector as system engineer, software tester, junior programmer, web developer, system administrator, software developer etc.
- Apply standard software engineering practices and strategies in software project development using open source programming environment to deliver a quality of product for business success.

PROGRAM SPECIFIC OUTCOMES

- Equip themselves to potentially rich & employable field of computer applications.
- Pursue higher studies in the area of Computer Science/Applications.
- Take up self-employment in Indian & global software market.
- Meet the requirements of the Industrial standards.

COURSE OUTCOME (BCA) :

BCA PART-ONE (211)			
S.NO.	**Course Code**	**Course Name**	**Course Outcome**
1.	BCA101	I. Discrete Mathematics	At the end of this course, the students will be able to: • Construct simple mathematical proofs and possess the ability to verify them. • Have substantial experience to comprehend formal logical arguments. • Be skillful in expressing mathematical properties formally via the formal language of propositional logic and predicate logic. • Specify and manipulate basic mathematical objects such as sets, functions, relations and Graphs and will also be able to verify simple mathematical properties that these objects possess.

2.	BCA101	II. Calculus & Statistical Analysis	At the end of this course, the students will be able to: • Verify the value of the limit of a function at a point using the definition of the limit. • Understand the type of variable and useful in the development of the function. • Know the basic idea of Permutations and Combinations, and Probability Concepts. • Evaluate the probabilities and conditional probabilities. • Understand the consequences of the Intermediate value theorem for continuous function
3.	BCA 101	III. Introductory Electronics	At the end of this course, the students will be able to: • Understand the fundamental concepts and techniques used in digital electronics. • Understand concept of Semiconductor and Classify different semiconductors. • Understand and examine the structure of various number systems and perform the conversion among different number systems. • Illustrate reduction of logical expressions using Boolean algebra, k-map and tabulation method and implement the functions using logic gates • Understand, analyze and design various combinational and sequential circuits.
4.	BCA 102	Fundamentals of IT & O.S.	At the end of this course, the students will be able to: • Describe the history and types of computers and various input/output devices. • Understand the concept of memory and its types. • Identify categories of system software and application software. • Understand the concept of MS DOS with DOS commands. • Understand the concept of GUI and various Windows OS.

5.	BCA 103	Programming in ‗C' Language	At the end of this course, the students will be able to: • Understand The fundamental programming concepts and methodologies which are essential to building good C programs. • Develop programming skill and learn how to implement a new software. • Develop programming and logical concepts which helps to build up source code of concern programming language. • Understand the concept of programming like Compilation, Debugging, Executing, Linking and Loading. • Write simple C programs using programming concepts.
6.	BCA 104	Introduction to PC	At the end of this course, the students will be able
		Software & Internet Applications	to: • Understand the MS Word and Create a new Word document and formatting a document using MS-WORD. • Understand the MS Excel with creating sheets, calculation in cell and prepare charts. • Understand the MS Power point and Create slide show presentation, design templates, and animation effects. • Use Microsoft Office programs to create personal, academic and business documents following current professional and/or industry standards. • Understand introduction to HTML and Designing Web Page using MS FrontPage. • Understand about Animations and Graphics, 2D/3D Animation, create a new movie and work in Photoshop.
7.	BCA 105A	Programming in Visual Basic	At the end of this course: • This course provides the skills and knowledge required to use essential features and capabilities of VISUAL BASIC. • A programming system used to produce Graphical User Interfaces and applications in a Windows environment. • It includes basic programming concepts, problem solving, programming logic, and the design of event-driven programming, error handling and file handling.

8.	BCA 105B	Practical Based on course 105A	At the end of this course, the students will be able to: • Design, create, build, and debug Visual Basic applications. • Implement syntax rules in Visual Basic programs. • Write and apply decision structures for determining different operations. • Write and apply loop structures to perform repetitive tasks. • Write Windows applications using forms, controls and events.
9.	BCA 106A	English	
10.	BCA 106B	Hindi	
11.	BCA 107	Practical Based on course 103	At the end of this course, the Students will be able to:
			• Understand the fundamental programming concepts and methodologies which are essential to create good C programs. • To practice the fundamental programming methodologies in the C programming language via laboratory experiences. • Write, compile and debug programs in C Language. • Create programs involving decision structures, loops, strings, functions, structures and pointers. • Code, test, and implement a well-structured, robust computer program using the C programming language.
12.	BCA 108	Practical Based on course 104	At the end of this course, Students will be able to: • Learn Modern office activities and their software requirements. • Create a new Word document and formatting a document using MS-WORD. • Create an electronic spreadsheet using MS-Excel, familiarize oneself with Excel‘s basic and advance features. • Create a slide show presentation and explore the Microsoft Office PowerPoint environment. • Demonstrate an ability to create basic Web pages with HTML.

13	BCA 109	Bridge Course	At the end of course, Students will be able to: • Analyze and solve problems based on Matrix & determinants. • Understand the basic knowledge of Algebra, Trigonometry and Geometry. • Understand Statistics and its applications and also will be able to calculate Mean, median and mode.
BCA PART-TWO (212)			
14	BCA201	I. Numerical Analysis	At the end of this course, the students will be able to: • Understand and apply basic numerical methods and the theory behind them, related to interpolation and approximation, numerical integration, and solving first order ordinary differential equations. • Obtaining numerical solutions to problems of mathematics. • Describing and understanding of the several errors and approximation in numerical methods. • The understanding of several available Solutions of Equations in One Variable. • The explaining and understanding of the several available methods to Solve the simultaneous equations.
	BCA201	II. Differentiation & Integration	At the end of this course, the students will be able to: • Understand Rolle‘s theorem, mean value theorem of Lagrange and Cauchy, an application of taylor‘s theorem. • Locate the x and y intercepts, any undefined points, and any asymptotes. • Determine the integration like integration of functions and integration of functions of two and three variables.

15	BCA201	III. Data Structure	At the end of this course, the students will be able to: • Use different types of data structures, operations and algorithms. • Implement appropriate sorting/searching technique for any given problem. • Use stack, Queue, Lists, Trees and Graphs in problem solving. • Find suitable data structure during application development/ Problem Solving.
16	BCA202	DBMS (oracle,SQL)	At the end of this course, the students will be able to: • Learn about Database Concepts, Database Languages, Architecture, various Users, Data Models and Data Management which helps them to interact with various Databases. • Develop various Tables and Databases which helps them to develop new Software.
			• Practice various SQL commands which help them to generate new relationships among various Tables and Databases which are useful for Software Development. • Familiar about RDBMS Software like Oracle and SQL Server which are used as Backend for Software Development.
17	BCA203	Programming in C++ &Visual C++	At the end of this course, the students will be able to: • Develop programming skill and learn how to implement a new software. • Develop programming and logical concepts which helps to build up source code of concern programming language. • Write simple C++ programs using programming concepts. • Familiar about procedure oriented and object oriented concepts. • Develop new applications with C++ which helps them to switch in Software Industry. • Demonstrate proficiency in writing structured programs using the Visual C++ programming language to resolve problems.

18	BCA204	Computer Networking & Internet Technology	At the end of this course, the students will be able to: • Understand the basic computer network technology. • Understand and explain the Data Communications System and its components. • Understand the layers of the OSI model and TCP/IP and identify the different types of network topologies and protocols. • Create applications using HTML, CSS and Java Script. • Understand fundamental tools and technologies for web design and how Web pages are designed and created.
19	BCA205 A	Shell Programming in Linux/Unix	At the end of this course, the students will be able to: • Understand the basic commands of linux operating system and can write shell scripts. • To learn the important Linux/UNIX library functions and system calls. • To understand the inner workings of UNIX-like operating systems. • Understand the concept of GNOME and
			KDE desktop environment.
20	BCA205 B	Practical Based on course 205A	At the end of this course, the students will be able to: • Understand the basic commands of linux operating system and can write shell scripts. • Mastery of the basic LINUX/UNIX process structure and the LINUX/UNIX file system. • Understand all the LINUX/UNIX utilities, and implement shell scripting. • Mastery of at least one Shell scripting language.
21	BCA206 A	Principal of Management	Upon completion of the course, students will be able to: • Have clear understanding of managerial functions like planning and have same basic knowledge on international aspect of management. • understand the planning process in the organization. • understand the concept of organization. • Demonstrate the ability to directing, leadership and communicate effectively.
22	BCA206 B	Foundation Course	

23	BCA207	Practical Based on course 202	At the end of this course, the students will be able to: • Students get practical knowledge on designing and creating relational database systems. • Understand various advanced queries execution such as relational constraints, joins, set operations, aggregate functions, trigger, views and embedded SQL. • Use of various software to design and build ER Diagrams, UML, Flow chart for related database systems. • Students will be able to design and implement database applications on their own.
24	BCA208	Practical Based on course 203	At the end of this course, the students will be able to: • Understand the fundamental programming concepts and methodologies which are essential to create good C++ programs. • Code, test, and implement a well-structured, robust computer program using the C++ programming language.
			• Write reusable modules (collections of functions). • Understand design/implementation issues involved with variable allocation and binding, control flow, types, subroutines, parameter passing. • Develop an in-depth understanding of functional, logic, and object-oriented programming paradigms.
BCA PART-THREE (213)			
25	BCA301	I. Calculus & Geometry	At the end of this course, the students will be able to: • understand the relationship between the derivative and the definite integral as expressed in both parts of the Fundamental Theorem of Calculus. • Learn to calculate maxima and minima of functions of two and three variables. • understand geometrical terminology for cone, cylinder, straight lines, conic and circles.

26	BCA301	II. Differential Equation & Fourier Series	At the end of this course, the students will be able to: • Student will be able to solve first order differential equations utilizing the standard techniques for linear, homogeneous differential equation. • solve linear, partial differential equations of both first. • understand purpose and operation of Fourier series and Transformation.
27	BCA301	III. Computer System Architecture	At the end of this course, the students will be able to: • Thoroughly learned about the basic building blocks and computer design in computer architecture and learned about the various components of computer architecture. • Logically observed and experienced about various aspects of logic gates. • Learn number system and various types of micro-operations of processor. • Ability to understand the concept of I/O organization. • Categorize memory organization and explain the function of each element of a memory hierarchy.
28	BCA302	Java	At the end of this course, the students will be able to: • Develop programming skill and learn how to implement new Platform Independent software. • Develop new Packages which help them to develop new application software and Utility Software. • Develop new Online Software and Internet Games with the help of Applet and AWT Packages. • Learn about TCP/IP Client and Server Sockets which helps them to develop Networking Software. • Familiar about Applet, Thread and Servlet Life Cycle which helps them to develop value added services for Internet Users.

29	BCA303	Operating System	At the end of this course, the students will be able to: • Understand various functions, structures and history of operating systems and should be able to specify objectives of modern operating systems and describe how operating systems have evolved over time. • Understand various process management concepts including scheduling, synchronization, and deadlocks. • Have a basic knowledge about multithreading. • Understand concepts of memory management including virtual memory.
30	BCA304	Software Engineering	At the end of this course, the students will be able to: • Basic knowledge and understanding of the analysis and design of complex systems. • Choose appropriate process model depending on the user requirements. • perform various life cycle activities like Analysis, Design, Implementation, Testing and Maintenance. • Work as an effective member or leader of software engineering teams. • Know various processes used in all the phases of the product. • Apply the knowledge, techniques, and skills in the development of a software product.
31	BCA305 A	Multimedia Tools and Applications	At the end of this course, the students will be able to: • Define multimedia to potential clients.
			• Identify and describe the function of the general skill sets in the multimedia industry. • Understand about the text, image, sound, animation, video and implement it using appropriate multimedia tools. • Identify the basic hardware and software requirements for multimedia development and playback.

32	BCA305 B	Practical Based on Course 305A	At the end of this course, the students will be able to: • Identify and describe the function of the general skill sets in the multimedia industry. • Identify the basic hardware and software requirements for multimedia development and playback. • Understand about the text, image, sound, animation, video and implement it using appropriate multimedia tools. • Explore the fundamentals and underlying theories of Multimedia and animation to design and develop 2D/3D animations, film-making, visual effects for the creative media.
33	BCA306 A	Financial Accountancy	At the end of this course, the students will be able to: • Basic understanding of concepts of meaning and nature accounting principles of financial statement. • Preparation of financial statement: a synoptic view-profit and loss account, balance sheet. • Understand Ratio analysis (liquidity, solvency, profitability, efficiency). • Preparation of various types of budget.
34	BCA306 B	Foundation Course	
35	BCA307	Practical Based on Course 302	At the end of this course, the students will be able to: • Develop front end application using front end technologies. • Demonstrate the principles of object-oriented programming. • Create multi-threaded programs and event handling mechanisms.
36	BCA308	Project	At the end of this course, the students will be able to: • Demonstrate an ability to work in teams, manage and conduct.

			• Students are trained to meet the requirements of the Industry. • Discover potential research areas in the field of IT. • It makes the student confident in designing an Online Project with advanced technologies on their choice.

PROGRAM OUTCOME (PGDCA):

The program focuses on the skill enhancement of students in which following skill component are enhanced.

- This course provides job opportunity in the field where computer training is essential.
- student will able to learn the latest trends in various subjects of computer & information technology.
- They can start their own business in web development and software development..
- It will equip the students with skills required for designing, developing applications in Information Technology.
- Students can also pursue the career of computer operators.
- To enhance their career opportunities in the software development and maintenance sector in the state.
- Students are eligible to pursue MCA (Lateral Entry) and apply for jobs in various multinational companies, industries, banks.

Program Specific Outcomes

- Students become eligible to pursue MCA and M.Sc. in Information Technology.
- They can also join MBA.

Course Outcomes

- The students acquire knowledge about basics and fundamentals of information technology, basic programming concepts of procedure oriented and object oriented languages (C and Java), fundamentals of web programming (HTML, CSS, Javascript), DataBase management system, computer networking and computer based accounting information.
- Students learn to develop and debug codes in different languages.
- Students are able to design web based applications using PHP, HTML, DHTML, CSS and Javascript.

GOVT RBR NES PG COLLEGE ,JASHPUR
DEPARTMENT OF ECONOMICS

Programme Outcomes

Undergraduate Programme

At the end of UG programme, students will be able to:

Critical thinking: Identify and analyze current issues and trends in higher education and come-up with intellectual, organizational, and personal ideas and decisions from different perspectives

Effective citizenship: Understand the administration of college, including the roles and functions of the major administrative units and develop ability to act with an informed awareness of issues and participate in civic life activities for comprehensive development

Effective communication: Communicate clearly and effectively using the professional standards of their fields

Environment and sustainability: Understand the issues of environmental contexts and demonstrate the knowledge for sustainable development

Ethics: Express legal and ethical issues and understand the moral dimensions of decisions and responsibilities

Life-long learning: Gain ability to engage in independent and life-long learning with socio-technological changes

Post Graduate Programme

At the end of PG programme, students will be able to:

Disciplinary knowledge: Accomplish profound expertise in discipline and increase ability to function in multidisciplinary domains

Effective citizenship: Investigate individual, institutional and national values and understand the impact of cultural variations and technological advancement, innovations and applications

Leadership qualities: Capability of working as a team and setting direction and using management skills to achieve the Vision and Mission

Research aptitude: Manage ability to exercise research intelligence in investigations/ innovations and to communicate research findings in a clear, concise manner

Ethical awareness: Gain knowledge of ethical principles and commit to professional ethics

Self-directed learning and digital learning: Ability to work independently, identify appropriate resources required for projects, manage projects, enable learning through ICT tools and integrate self-directed learning, digital learning with life-long learning Ph.D. Programme

At the end of Ph.D. programme, students will be able to:

Scientific Reasoning: Critically apply theories, methodologies, and knowledge to address fundamental questions in their primary area of study

Problem solving: Formulate and write research grant proposals with effective questions, hypotheses and experimental designs

Analytical thinking: Develop the inductive and deductive reasoning skills to drive research projects productively and independently

Program Specific Outcome Graduation

B.A. Economics

Students learn the basic concepts of micro economics and macro economics which makes the base of all the economic studies. They get to learn about the Indian economy, different patterns of consumption ,production and distribution in the economy. Students also learn about the different levels and status of agricultural economics, poverty and employment in the country.they get to learn about the policies and programmes of the government for the welfare of the society through welfare economics concept.papers like environmental economics which add value to their education .they get to know about the different concepts related to the environment and the importance of sustainable development.

Subject Combination Outcome Graduation:

1) Economics, Hindi Literature, Geography

The combination of above subject is very important. In Economics students learn the basic concepts of micro economics and macro economics which makes the base of all the economic studies. They get to learn about the Indian economy, different patterns of consumption ,production and distribution in the economy. Students also learn about the different levels and status of agricultural economics, poverty and employment in the country. They get to learn about the policies and programmes of the government for the welfare of the society through welfare economics concept. Papers like environmental economics which add value to their education. they get to know about the different concepts related to the environment and the importance of sustainable development. Geography gives them opportunity to learn about the geographical structure of the country and the world. They get to know about the availability of the natural resources in difeerent parts and hence know the reasons for their economic strength.a student who learns both the subject can easily relate the geography of the nation to its economy. The knowledge of hindi helps the student to make a strong base to communicate and share their knowledge with the world.

2) Economics, Hindi Literature, Sociology

THE COMBINATION OF ABOVE SUBJECT IS VERY IMPORTANT. IN ECONOMICS STUDENTS LEARN THE

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3) Economics, Hindi Literature, Political Science

The combination of above subject is very important. In Economics students learn the basic concepts of micro economics and macro economics which makes the base of all the economic studies. They get to learn about the Indian economy, different patterns of consumption, production and distribution in the economy. Students also learn about the different levels and status of agricultural economics, poverty and employment in the country. They get to learn about the policies and programmes of the government for the welfare of the society through welfare economics concept. Papers like environmental economics which add value to their education. they get to know about the different concepts related to the environment and the importance of sustainable development. Political Science is the study of political structure of the country and the different parts of the world. Any economy is stable when its political situation is stable so the political understanding gives them opportunity to learn about the political structure of the country and the world. They get to know about the reasons behind the political stability and instability in different parts and hence know the reasons for their economic strength. a student who learns both the subject can easily relate the political situation of the nation to its economy. The knowledge of Hindi helps the student to make a strong base to communicate and share their knowledge with the world.

4) Economics, Political Science and Sociology

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Course outcome- students learn the basic concept of micro Economics and structure of Indian Economy and their characteristics Which builds the foundation for economic studies in their higher education and research as well as for competitive examinations.

BA (FIRST YEAR)

First Paper – Micro Economics

COURSE LEVEL LEARNING OUTCOMES:

At the end of the course the students will be able to:

1. Analyze the decisions taken by firms and households due to scarcity of resources
2. Calculate the elasticity of demand and supply.
3. Describe the laws and various concepts in production and costs.
4. Evaluate the various microeconomic theories

5. Examine the causes of scarcity.

Second Paper-Indian Economy

Course Learning Outcomes;

At the end of the course the students will be able to:

1. Differentiate between economic growth and economic development.
2. Classify the indices of economic development.
3. Identify the demographic features of the Indian economy.
4. Assess the causes and measures of poverty inequalities and unemployment.
5. Analyze the economic and social issues of the Indian economy

B A (SECOND YEAR)

First paper- Macro Economics

COURSE LEVEL LEARNING OUTCOMES:

At the end of the course the students will be able to:

1. Explain National income aggregates
2. Examine the role of money in modern economy
3. Evaluate the role of Government expenditure in the economy
4. Analyze the role of foreign sector.

Second paper- Money, Banking And Public finance

Course level learning outcomes ;

At the end of the course the students will be able to:

1- Identify the items of current and capital account of government budget.
2- Evaluate the objectives of fiscal policy.
3- Explain the tools of fiscal policy.
4- Differentiate between the balanced and unbalanced budget.
5 -theories of taxation.

B A (THIRD YEAR)

First paper- Economics of Growth, development and environment

1- Theories of Economic Growth
2- Development Vs destruction
3- Engine of development
4- Sustainable development
5- Theories of Environment

Second paper- Basics Of statistics

1- Concept of basic statistics
2- Measures of central tendency
3- Tools and techniques of statistical analysis
4- Prepares base for higher studies and research in own discipline as well as inter disciplinary

M.A. Economics

Course Outcome:

Micro Economic Analysis **:**

The outcome of the paper is to understand the micro economic units of the economy. it is to understand the behavior of the individual and the individual firm.it makes the student understand the consumer behavior , a producer‘s behavior , cost theory , helps to understand different types of market and theory of distribution.

Macroeconomics **:**

The outcome of this course is that it helps to understand the macroeconomic state of the economy. it helps to understand the aggregate demand, employment and the national income or GDP of the economy.it helps to understand the development and growth of an economy.

Public Economics **:**

This paper basically deals with the government participation in the economy with government expenditure and revenue, taxation and public debt.

International Economics :

The outcome of this course is that it helps to understand the foreign trade of the country. Its helps students to understand the import and export concept necessary for the Indian economy.

Agricultural Economics :

This paper helps to understand the agricultural development taking place in india .it covers the progress of the agriculture since independence and also focuses on the analysis of agricultural research.

Environmental Economics **:**

It is basically a value-added paper which focuses on the concept of environment and its relation with economics. It gives an insight about the taxes and discounts made by the government for the production of different goods in the country to control or minimize the pollution. it helps to understand the different environmental values and costs related to it. It helps to understand the need of environmental conservation and protection in India and Globally. The paper focuses on the Resources available in any country and its optimum utilization for the economic growth with minimum environmental degradation. The Course adds a value as well as a moral value to the students to save our environment with sustainable development.

Indian Economy :

This course focus on all the past and current issues of Indian economy. Whether it is agriculture or the industries of the policies of government. It gives all the data related to the national income and the growth of an economy.

Research methodology and computer application:

The course will help the learners to understand the base of computer applications. It will develop the skill to utilize various software needed for the research work. On completion of this course, the learners would be able to carry out/conduct independent research pertaining to any specific economic issue; find, evaluate and employ social research materials and theoretical approaches of reflections on the

economic issues, identify issues of research in Economics and appropriate methodologies for the execution of research in the chosen area, design a research, justifying use of various methods/tools to carry out the same, collect, analyses and interpret both qualitative and qualitative data and an understanding on ethical issues in rsearch.

Environmental and Forest Laws:

Students will learn to explain the role of law, policy and institutions in the conservation and management of natural resources as well as pollution control To introduce the laws and policies both at the national and international level relating to environment To equip the students with the skills needed for interpreting laws, policies and judicial decisions. On completion of this course, the learners would also be able to strengthen their base regarding the ethical issues and understand basics of environment protection, sustainable development and living in harmony with nature by adopting green economy and policies.

Intellectual property Rights,human Rights And Environment:

After thorough study of the course, the learners will be able to understand the basic aspect of human rights. It will be helpful for the learners to be an alert and aware citizen. After thorough study of the course, the learners will be able to understand the India‘s obligation to international human rights instruments. It will be help for the learners in UGC NET examination and other competitive examinations. After the completion of the course, the analytical skill of learners will be developed for relating the law with social life.

Students will recognize the importance of IP and to educate the pupils on basic concepts of Intellectual Property Rights. They will identify the significance of practice and procedure of Patents. To make the students to understand the statutory provisions of different forms of IPRs in simple forms. . To learn the procedure of obtaining Patents, Copyrights, Trade Marks &Industrial design . To enable the students to keep their IP rights alive.

Tribal studies :

This course aims to help students to understand tribal society and its distinct cultural characteristics. It also intends to enhance the knowledge about current scenario of tribal society and its changing culture. This course aims to help students to identify & understand the major issues in tribal development such as socio-political, economic, cultural & infrastructural.

Social outreach and Skill Development;

The outreach programs developed and enhanced the subject's academic skills, leadership qualities, self-confidence, communication skills, managerial skills, and responsibilities toward the rural community. Will make them aware of gender issues, Environment protection, social justice and responsible citizen committed to work for national development and unity.

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Monetary Economics-Theory and practice:

The purpose of this course is to enable students to acquire sufficient knowledge of monetary theory and policy. The course content is designed to ensure that the state of the art of monetary theory is given sufficient exposition; while at the same time introducing sufficient doses of

policy and empirical topics with special reference to developing countries, in particular India. The course adequately prepares students for advanced research and practice in the area plus policy analysis and implementation.

Dissertation:

By the end of this course students will be able to:

1. Identify and refine an appropriate research question;
2. Apply principles of research design to the question, and select an appropriate methodology;
3. Design and manage a piece of original project work;
4. Select from different methodologies, methods and forms of analysis to produce a suitable research design, and justify this design
5. Discuss the ethical dimensions of their research and obtain appropriate ethical approval if needed
6. Synthesize knowledge and skills previously gained and apply these to an in-depth study
7. Establish links between theory and methods within their field of study
8. Present their findings in an appropriate written format
9. communicate research concepts and contexts clearly and effectively both in writing and oral.

DEPARTMENT OF ENGLISH

Program outcomes, Program-specific outcomes, and Course outcomes for

BA &MA ENGLISH LITERATURE AND UG FOUNDATION COURSE-ENGLISH LANGUAGE

BA English Literature

BA I YEAR			
Paper I	Literature in English (1550-1750)		
Paper II	Literature in English (1750-1900)		
BA II YEAR			
Paper I	Modern English Literature		
Paper II	Modern English Literature		
BA III YEAR			
Paper I	Indian Writings in English		
Paper IIA	American Literature		
Paper IIB	20th Century Literature in English	Optional paper to Paper IIA	

PROGRAMME SPECIFIC OUTCOME

1. The students are exposed to a wide range of English writings from British, American and Anglo-Indian origin.
2. They will acquire an ability to read and understand various literary genres
3. The Close reading of the texts can help in the development writing skill.
4. Acquaintance with the works of significant American writers of Poetry, Prose Fiction and Drama will provide an opportunity of exposure to American culture and history
5. The students are exposed towards the problems of interpreting Indian Culture via the English Language and are acquainted with the works of significant Indian English writers of Poetry, Prose Fiction and Drama.
6. Demonstrate a set of basic skills in literary communication and explication of literary practices with clarity

COURSE OUTCOME:

YEAR	PAPER	COURSE NAME	COURSE OUTCOME After completion of the course:
BA PART I	I	Literature in English (1550-1750)	1. Students will be acquainted with Shakespearean Drama and its characteristics 2. An ability to understand different forms of poetry written during Elizabethan to Neoclassical period 3. Be familiarised with the prose styles of various authors
	II	Literature in English (1750-1900)	1. A knowledge of the themes, concerns and forms of romantic Literature 2. Students will be familiarised with various forms Victorian Literature 3. Gain an insight into British literary History
BA PART II	I	Modern English Literature	1. Understand various literary terms 2. Be familiarised with dramatic and poetic innovations during modernist period
	II	Modern English Literature	1. Understand various poetic devices and forms of Poetry 2. Be acquainted with World War I Poets, and other modern Poets, Prose writers and Novelists
BA PART III	Paper I	Indian Writings in English	1. Understand and appreciate the literary works of Indian English writers 2. Understand the growth of Indian Writing in English
	Paper II A	American Literature	1. Have a comprehensive idea about the various ages in American Literary History 2. Appreciate and understand various texts and authors from American Literature
	Paper II B (optional)	20th Century Literature in English	1. Students will be familiarised with a general background and cultural history of 20th century and the effect of two world wars on shaping the contemporary literature 2. Understand and appreciate the works of representative authors of the 20th century writers in English

LEARNING OUTCOME:

1. Ability to read critically the prescribed texts and understand its broader implications
2. Ability to recognize and comprehend different varieties of English language and develop a writing style of their own
3. Ability to think critically on various issues and subject matters and relate the same with real life situations.
4. Ability to evaluate the strengths and weaknesses in scholarly texts, and gain critical insight about the reality as a whole.
5. Ability to effectively communicate in English language by reading the various language patterns, sentence structure and dialogue forms. English is the language of science, computers, diplomacy, and tourism. Knowing English increases students‘ chances of getting a good job in future

FOUNDATION COURSE - ENGLISH

B.Sc., B.Com, B.A., B.C.A.-PART I	FOUNDATION COURSE ENGLISH
B.Sc., B.Com, B.A., B.C.A.-PART II	FOUNDATION COURSE ENGLISH
B.Sc., B.Com, B.A., B.C.A.-PART III	FOUNDATION COURSE ENGLISH

COURSE OUTCOME:

The course is designed to give knowledge of English Language for the development of communication skills. After completion of the course :

1. Students will be able to have mastery of language for understanding the basic concepts of various subjects.
2. Students will heighten their awareness of correct usage of English grammar in writing and speaking
3. Students will improve their speaking ability in English both in terms of fluency and comprehensibility
4. Students will improve their reading fluency skills through extensive reading
5. They will gain general awareness about the cultural heritage of India in Ist year, Science and scientific approach in IInd year and the problems of Third World Countries in IIIrd year is taught in English courses.

LEARNING OUTCOME

1. Learn the skill of constructing grammatically correct sentences.
2. Apply the basic grammatical rules learnt in speaking and writing.
3. To be able to write, expand an idea and contract a passage.
4. To be able to write official and personal letters
5. Enhancing the vocabulary for linguistic competence and effective communication.
6. Become aware of the moral, cultural values through the stories and chapters prescribed in the course

Program : MA English

The Department of English of Government Ram Bhajan Rai. P.G. seeks to foster the intellectual development of its students by encouraging the study of literature and writing. The Department strives to make its students familiar with a wide range of works of British writers in particular and World literature in general with a special focus on Indian writings in English. The issues of culture, history, gender, race, ethnicity, politics are addressed and negotiated in the process of imparting knowledge of English literature in its pluralistic forms.The Department wishes that each student who graduates with an MA in English will have an enduring interest in language and literature, an awareness of their historical and cultural legacies, knowledge of complexities of human existence, the political and social upheavals and its bearing on literature, an understanding of the ability of great literature to arouse and challenge people to struggle with insightful questions of human identity and values.

PROGRAM OUTCOME:

Following are the expected Programme outcome of MA English

1. Students will get be familiarised with the representative literary, cultural texts of any age regardless of its historical and geographical context.
2. **Critical Close Reading**:
   - Students will develop an ability to read critically the prescribed texts and understand its broader implications.
3. **Critical Thinking**
   - They will have an ability to think critically on various issues and subject matters and relate the same with real life situations.
4. **Writing and Communication Skills**
   - An ability to adjust writing style appropriately to the content, the context, and nature of the subject.
   - Ability to communicate ideas logically.

- Write clearly and effectively in a variety of forms, adapting writing and analytical skills
- Students will comprehend linguistics as well as translation after exposure to literary texts of varied range.

5. **Integrate academic learning and community engagement through practical field work.**

   - The Social outreach course proposes to equip the students for community upliftment work.
   - It will foster the development of civic responsibility among students

6. **Research Aptitude**
   - Development of a spirit of critical and scholarly enquiry for the subject.
   - To incorporate the sources into documented academic writing,
   - apply appropriate research methodologies to specific problems
7. **Acquisition of Values**
   - Through their judgment of the aesthetic value of a literary text students will learn to appreciate whatever is good and beautiful in life. Their healthy mind will thus be storehouse of healthy thoughts.
8. **Issue of Sexuality and Gender:**
   - Students will understand the Difference between sex and gender and learn how the later is a social construction
   - Appropriation of literary texts as tools of cultural study will help students to challenge centuries of social tradition and scientific belief which promote masculine-feminine and other types of differentiations.
9. **Self-directed and life-long learning**
   - Students will be capable to access information and knowledge independently
   - Ability to express themselves in speech and writing using English language

COURSE OUTCOME

FIRST SEMESTER		
COURSE CODE	**COURSE(PAPER/SUBJECTS)**	
MAE101	Poetry I	Theory
MAE 102	Drama I	Theory
MAE 103	Prose I	Theory
MAE S01	Social Outreach and Skill development	Project/Field Work
MAEA02	History of English Literature	Theory

MAE 101 -Poetry I

Course Outcome :

After completion of the course

1. Students will be familiarised with English Poetry, its development, various forms and genres of poetry between 15^{th} and 17^{th} century
2. They will be awared of the movements throughout the Middle ages to Puritan age.
3. Students will read and appreciate poems on their own
4. Engage in close analysis of narrative and poetic language which helps in applying technical analytical terms.
5. Understanding the literary devices which enhance the beauty of the poem.
6. Students will learn poetic achievements of Geoffrey Chaucer, William Shakespeare, John Donne, John Milton and understand, analyse, appreciate and critically evaluate their poems.

MAE 102Drama I

Course Outcome :

After completion of the course

1. Students will be familiarised with knowledge of the origin and growth of drama in England
2. Students are exposed to the changing approaches to theatre and the change in dramatic works.
3. They will get an understanding of Elizabethan theatre, stage and settings and Elizabethan audience.
4. Understand the Elizabethan drama and Jacobean drama with respect to plot, character, dialogue , theme,and dramatic technique.
5. Learn about the historical, socio-political and literary features of the time.
6. Students will learn the dramatic achievements of Thomas Kyd, William Shakespeare, Christopher Marlowe, Ben Jonson, and understand, analyse, appreciate and critically evaluate their dramas.

MAE 103 Prose I

Course Outcome :

After completion of the course

1. Students will be acquainted with the development of Prose writings.
2. They will be acquainted with the prose styles of various authors
3. They will be able to appreciate the idea presented by the author.
4. Enlarge their vocabulary and understand the structure of sentences and grasp the idea of the author.
5. Important essays are read and analysed to enhance their understanding and pleasure in reading.

6. Students will understand, analyse, appreciate and critically evaluate Prose works of Francis Bacon, Thomas Browne, John Milton and Machiavelli

MAE S01 Social Outreach and communication skills

Course Outcome:

1. Students will be able to communicate effectively orally and in writing.
2. Students will develop knowledge, skills, and judgment around human communication that facilitate their ability to work collaboratively with others
3. Develop awareness, knowledge and skills for working with diverse groups in the society.
4. Learn to connect knowledge gained in classroom with real life situation by getting hands on experience through community services

MAE A02 History of English Literature

Course Outcome :

After completion of the course

1. Students will understand how the religious and political history of England influenced the English writers.
2. They will be able to delineate major writers and their works in a chronological order.
3. Have an insight into the social background with its war or peace, and the upheavals of values and ideology.
4. Will understand the chronological survey of the major writers and writings that have contributed to the development of English literature.
5. Understanding the importance of social, political and religious background to comprehend any text.
6. acquire knowledge about the genres of literature and their emergence and growth through the ages.

SECOND SEMESTER	
COURSE CODE	**COURSE(PAPER/SUBJECTS)**
MAE201	Poetry II
MAE 202	Drama II
MAE 203	Prose II
MAE S02	Research Methodology & Computer Application: Basics
MAEB03	Literature and Gender

MAE201 Poetry II

Course Outcome :

After completion of the course

1. The Students will be acquainted with the Restoration & Neo classical poetry.
2. The students will be able to understand the changing poetic conventions from Elizabethan period to Neo Classical period
3. Students will be exposed to the poetic achievements of Alexander Pope, John Dryden, Dr. Samuel Johnson, Thomas Gray and understand, analyse, appreciate and critically evaluate their poems.
4. have a broad idea of social and historical concepts of nature through study of Pre-romantic poetry
5. Acquainted with the socio- political transition and its impact particularly on poems.
6. Familiarised with the changing trends in theme,style ,values and conflicts in literary history.

MAE202 Drama II

Course Outcome :

After completion of the course

1. Students will learn dramatic achievements of William Congreve, Oliver Goldsmith, James Synge, G.B.Shaw, T.S.Eliot, John Dryden, Henrik Ibsen and understand, analyse, appreciate and critically evaluate their Dramas.
2. They can comprehend the origin and development of drama from the Restoration to Modern Age
3. Gain insights into the genre of Comedy of Manners which is fit to be read ,with its dialogues, characters, and satire on manners and morality.
4. The emergence of modern drama with stress on the problem plays of Henrik Ibsen and verse Drama of Eliot with its theme and technique is also introduced.
5. appreciate the timeless beauty and appeal of modern drama with their new thematic and stylistic elements.
6. A socio -political background of England is also studied to understand the changing nuances in this field.

MAE203 Prose II

Course outcome :

After completion of the course

1. the students will be familiarized with new trends of literature from 18^{th} century to present
2. They will understand literature in context of socio political and scientific changes.
3. They can enhance their reading skills and appreciate the texts in a critical and creative approach.
4. Appreciate the unique styles of eminent Prose writers ranging from Neo Classical to

Modern age.

5. Gain insight into the major issues of the British society of this age.
6. Students will be familiased with prose works of Joseph Addison, Richard Steele, Carlyle, John Ruskin, Robert Lynd, Gardiner, Oliver Goldsmith, Hazlitt and Stevenson and understand, analyse, appreciate and critically evaluate their essays

MAE S02 Research Methodology & Computer Application: Basics

Course Outcome:

After completion of the course

1. The students will be familiarized with the key concepts and issues related to research.
2. Gain experience with instrument development and data collection methods
3. Perform literature reviews using print and online databases
4. They can read, comprehend, and explain research articles in their academic discipline.
5. Exposed to the basic knowledge of the computer peripherals, operating system and office software packages
6. They will be acquainted with word processing software MS Word and learn to use them to complete their writing assignments
7. They will also be capable to use presentation software MS PowerPoint useful to design their presentations for the seminars

MAE B03 Literature and Gender

Course Outcome

After completion of the course

1. Students will learn how and on what grounds women's writings can be considered as a separate genre.
2. They will read and understand canonical texts written by writers across different ages and different countries on the theme of women and Gender
3. Differentiate between sex and gender and how the later is a social construction.
4. Be aware about the issues and concerns of the women writers of the developed, developing and under-developed countries.
5. analyse literary texts through the perspective of Gender

THIRD SEMESTER		
COURSE CODE	**COURSE(PAPER/SUBJECTS)**	
MAE301	Critical Theory I	Theory
MAE 302	IndianWriting in English I	Theory

MAE 303	AmericanLiterature I	Theory
MAE S02	Intellectual property, Human Rights & Environment :Basics	Interdisciplinary Course
MAE C02	Diaspora Studies	Theory

MAE 301 Critical Theory I

Course Outcome :

After completion of the course

1. Acquaint students with the various principal critics and trends of criticism since the ancient times to modern times.
2. They are familiarised with the origin of critical ideas in literature from Plato to present
3. The students are introduced to the nature, function and relevance of literary theory and criticism.
4. Students will be capable to judge literary works in an unbiased and dispassionate manner as taught by the masters.
5. Strengthen and develop analytical and logical thinking.

MAE 302 Indian Writing in English I

Course Outcome :

After completion of the course

1. The students are introduced to the various shades of Indian writings in English with its movements and artistic nuances.
2. They are familiarised with the emergence ,growth and flowering of Indian writings in English through the turbulent times of pre independence to the modern times.
3. Study the Indian contribution to literature in English
4. compare and appreciate the literary works of Indian writers
5. Able to analyse and appreciate the ― Indianness‖ of the writers which makes their writing unique .
6. Students will learn about the works of Indian Authors like Nissim Ezekiel, Shahid Ali, Vijay Tendulkar, Mulk Raj Anand and Anita Desai and understand, analyse, appreciate and critically evaluate their works written in Indian Context

MAE 303 American Literature

Course Outcome:

After completion of the course

1. Students will be familiar with the development of American literature over time from Pre colonial to modern times
2. Develop an understanding of social, cultural, historical and literary elements of changing American literature.
3. Understand the American style of writing and philosophies and its impact on the other

writers.

4. It explores the various perspectives of race, gender, socio economic class and historical background which play a very important role in their works.
5. Students will learn about American authors like Robert Frost, Emily Dickinson, Hemingway, Arthur Miller, Emerson and Thoreau and understand, analyse, appreciate and critically evaluate their works.

MAE SO3 Intellectual property, Human Rights & Environment :Basics

Course Outcome

1. The students will learn about the introduction, concepts, and historical overview of patents.
2. They will gain knowledge of copyright and their historical evolution.
3. They will learn about the rights and relation with life, liberty, equals, and the disabled.
4. Understand the national human rights commission.
5. They will be familiarised with the right to the environment as a human right.

MAE B03 Diaspora Studies

Course Outcome

1. the students will be familiarized with the literary productions which address issues related to cultural identity and national identity articulated in the Diasporic literature.
2. They will be able to Define the various attributes of the diasporic writers and the _ambivalence' of their attitudes towards their own motherland as well as their adopted homeland
3. They can comprehend the pain of displacement and search for identity in the texts of diasporic writers.
4. Construct and evaluate the theoretical readings of the various texts.
5. Create an interpretation of the texts in the context of diaspora conditions.

FOURTH SEMESTER	
COURSE CODE	**COURSE(PAPER/SUBJECTS)**
MAE 401	Critical Theory II
MAE 402	IndianWriting in English II
MAE 403	AmericanLiterature II
MAE S04	Dissertation
MAE D03	Modernist Literature

MAE 401 Critical Theory II

Course Outcome :

1. Use and expand domain knowledge in critical theory to create new contexts for developing a research perspective.
2. Develop an overview of major critical tools available to understand a text contextually.
3. Inculcate the skill of attempting a close reading of the text.
4. Ability to analyze and interpret facts.
5. to comprehend the meaning and significance of the key concepts of Rasa-theory

MAE 302 Indian Writing in English I

Course Outcome :

1. Students will broaden their horizon of understanding the literary works of Indian English writers
2. They are exposed to study the works of Indian Feminist writers
3. Students will be able to identify the relationship between Indian Writing in English and its social context.
4. They will be able to critically respond to Indian texts and better understand the themes and critically appreciate them.
5. Students will learn about Indian authors like Nehru, Gandhi, Tagore, Abdul Kalam, Premchand, Kamla Das, Shashi Deshpande, Anita Desai, Arundhati Roy and understand, analyse, appreciate and critically evaluate their works.

MAE 303 American Literature

Course Outcome:

1. Students will broaden their horizon of understanding American Literature and its development and be familiar with the major changes in writing style of the American writers over the period of time
2. Students will learn to Interpret and identity the psychological behaviour of characters in American literature as this behaviour is reflective of racial, gender, social and economic conditions.
3. Students will Identity and analyze the role major American historical occurrences have upon the plot, theme, and characterization in American Literature.
4. They will be enabled to appreciate mutually beneficial relationship between India and the U.S. through the literary medium
5. Students will learn about American authors like Eugene O'Neill, Tennessee Williams, Sylvia Plath, A E Poe, Faulkner, Hemingway, Hawthorne and India-American writer Bharti Mukerjee and understand, analyse, appreciate and critically evaluate their works.

MAE SO4 Dissertation

Course Outcome

1. An urge for research will be cultivated in the students,

2. Students will develop writing skills
3. They are exposed to integrate writing and thought and to apply the conventions of academic writing correctly.
4. They are familiarized with how to plan, and engage in, an independent and sustained critical investigation and evaluation of a chosen research topic relevant to environment and society
5. Understand and apply ethical standards of conduct in the collection and evaluation of data and other resources

MAE B03 Modernist literature

Course Outcome

1. Know about the meaning and scope of the concepts of the Modern/Modernity/Modernism
2. Study and interpret representative writings from the 20th and 21st century
3. Acquaint themselves with the great tradition of modern European drama
4. Examine various literary techniques that writers of 20th century use in writing their texts, and demonstrate an understanding of these techniques.
5. Reflect upon the great upheaval that the world has undergone during 20th century and the constructive role of literary activism/movements in restoring humane values.

GOVT. RBR NES PG COLLEGE, JASHPUR COURSE OUTCOME

DEPARTMENT OF GEOGRAPHY

B.A I

Paper I

PHYSICAL GEOGRAPHY

Post completion of this course student will:

1. Have knowledge of nature and scope of physical geography.
2. Be able to explain Earth movements, Weathering, Erosion and landscapes.
3. Have in-depth understanding of composition and structure of the atmosphere and its various aspects.
4. Have in-depth understanding of elements, classification, charecteristics and patterns of climate.
5. Have greater knowledge of Oceans, their distribution, temperature, salinity, currents, tides and resources.

Paper III

PRACTICAL GEOGRAPHY

Post completion of this course student will:

1. Be able to explain Scales and Representative fraction.
2. Have greater understanding of Contour.
3. Be capable of understanding and making Graphs and Diagrams.
4. Have knowledge of Statistical Techniques i.e. Mean, Median, Mode.

B.A II

Paper I

ECONOMIC AND RESOURCE GEOGRAPHY

Post completion of this course student will:

- Have basic knowledge of Economic Geography.
- Be able to explain Resource and its concepts.

- Have great knowledge of various mineral resources.
- Be able to interpret agricultural regions of the world and its different theories.
- Have in-depth understanding of world transportation.
- Have the knowledge of major trade blocks.
- Be able to understand the effect of globalisation of developing countries.
- Have understood conservation of resources and policy making.

Paper III

MAP INTERPTATION, PROJECTIONS AND STATISTICAL METHODS

Post completion of this course student will:

1. Be able to explain distribution of Maps
2. Have basic knowledge of Map Projections.
3. Be able to interpret weather maps and use of meteorological instruments.
4. Have comprehensive knowledge of statistical methods.
5. Be capable of elaborate Surveying.

B.A III

Paper I

REMOTE SENSING AND GIS

Post completion of this course student will:

1. Be able to explain the basics of remote sensing its types.
2. Have greater understanding of visual and digital image processing techniques.
3. Have in-depth understanding of GIS, its scope, importance, history, components, functions etc.
4. Be able to explain data model and data analysis and its other concepts.

Paper III

PRACTICAL GEOGRAPHY

Post completion of this course student will:

1. Be able to read and interpret maps.
2. Have knowledge of Band Graph, Climograph, Square and Cube root and topographical sheets.
3. Have greater understanding of satellite imageries and application of GPS.
4. Be able to explain plane table survey.

5. Have greater understanding of field work and field report.

M.A

SEM I

FLUVIAL GEOMORPHOLOGY

Post completion of this course student will:

1. Have comprehensive knowledge of drainage pattern, its evolution, network composition, flow characteristics and associated laws.
2. Be able to explain characteristics of drainage basin.
3. Have greater understanding of Fluvial Erosion, landform associated with it and impact of human activities on it.

SEM I

GEOMORPHOLOGY

Post completion of this course student will:

1. Have basic knowledge of Geomorphology.
2. Be able to explain continents and ocean basins.
3. Have a great understanding of endogenetic forces and various theories related to it.
4. Have knowledge of cycle of erosion and its models and system.

SEM II

BIOGEOGRAPHY

Post completion of this course student will:

1. Have knowledge of Biogeography.
2. Be able to explain spatial dimension in Biogeography.
3. Have greater understanding of migration of plants and animals and theories and concepts of biogeography.
4. Be able to understand formation, properties and global distribution of soil, soil profile, vegetation and major biomes.

SEM II

MAP PROJECTION MAP INTERPRETATION AND SURVEYING (PRACTICLE)

Post completion of this course student will:

1. Be able to explain Geographical and Mathematical construction of world projections,
2. Be able to interpret Geological maps.
3. Have understood principals and methods of topographical surveying using theodolite and Dumpy level and solutions of problems in surveying.

SEM III

INTELLECTUAL PROPERTY RIGHTS, HUMAN RIGHTS AND ENVIRONMENT

Post completion of this course student will:

1. Have all round knowledge of patients.
2. Be able to explain copyright and its aspects.
3. Have a great understanding of human rights and its necessity.
4. Have knowledge of various bodies and institutions upholding human rights.
5. Able to explain human rights in context of environment and sustainable development.

SEM III

MEDICAL GEOGRAPHY

Post completion of this course student will:

1. Have comprehensive knowledge of Medical Geography and its distinctions from medical sciences.
2. Have in-depth understanding of how geographical factors affect human health and diseases that arise from them.
3. Be capable of classifying diseases on the basis of multiple parameters based on their transmission, origin, causes, geographical distribution etc.
4. Have a greater understanding of Health-care planning and policies.

SEM IV

SOCIAL GEOGRAPHY

Post completion of this course student will:

1. have a comprehensive understanding of social Geography.
2. Able to explain peopling process of India and its aspects.
3. Have an in depth understanding of society and its various categories like caste, religion, class and their spatial distribution.
4. Be capable of elaborating on healthcare, housing, education and slums, gated communities', communal conflict etc..all in the context of social geography.

SEM IV

FIELD WORK SOCIO ECONOMIC SURVEY (PRACTICAL)

Post completion of discourse student will

1. Have knowledge of field work in geographical studies.
2. Be able to define field work and identify case studies that fall under geographical realm.
3. Have in depth understanding of field work techniques.
4. Have knowledge of the various uses of field tools.
5. Be able to design field report.

This course will enable students to carry out field-based survey and report their findings.

SEM IV

REGIONAL PLANNING AND DEVELOPMENT

Post completion of discourse student will

1. Be able to explain the regional planning, its definition, scoop, evolution, objectives, types and various other aspects.
2. Have greater understanding of theories and models related to development of the region.
3. Be able to elaborate on approaches and strategies of regional development.
4. Have a deeper understanding of regional planning in Indian context. Enter

This course will enable students to understand and evaluate the concept of region in geography and its importance in regional planning.

M.A. IN GEOGRAPHY I SEMESTER COURSE

OUTCOME OF CLIMATOLOGY

Co1 Students will be familiar with the elements of clienate and weather and its effects.

Co2 Students will be familiar with the origin, distribution of cyclone and anti-cyclone and its effect on the weather.

Co3 Students will be able to ,make meteorological Predictions by getting acquaimtes with the traditional and modern techniques of weather fore casting.

Co4 Students will be aware of the problems related to monsoon and monsoon prediction.

M.A. IN GEOGRAPHY ISEMESTER COURSE

OUTCOME OF GEOGRAPHY OF INDIA

Co1 Students will be familiar with the geological structure and physical nature of india.

Co2 Students will be get acquainted with the major crops, crop problems of India and achieuanents of green revolution.

Co3 Students will be familiar with different sources of energy.

Co4 Students will be familiar with the physical, cultural, economic, social etc nature of Chhattisgarh.

M.A. IN GEOGRAPHY IISEMESTER COURSE

OUTCOME OF OCEANOGRAPHY

Co1 Students will be familiar with the nature and subject aria of oceanography. Along with this, you will also know about the physical and chemical properties of sea water.

Co2 Students will understand the inlier relationship between atmospheric circulation and circulation patterns in the oceans. Understand theimpad of ocean currents, temperature, waves and tides on human life and the environment .

Co3 Students will get acquainted with ocean bottom, ocean fauna, seafood and minerals.

Co4 Students will learn about the marine environment and marine environment and marine low understand its importance in the special Economic zone.

M.A. IN GEOGRAPHY II SEMESTER

COURSE OUTCOME OF ENVIRONMENTAL GEOGRAPHY

Co1 Students will be familiar with the meaning and concept of environment and will understand the importance of environmental studies in the subject of geography.

Co2 Students will be familiar with ecosystem especially forest and agricultural ecosystems. And will understand the effects of its development and destruction.

Co3 Students will be familiar with these facts that the environment is understand due to pollution. Soil, air and water pollution is a burning problem of today.

Co4 Students will be familiar with the policy and lowrelated to environmental management and will help in making the society aware for the protection of the environment.

M.A. IN GEOGRAPHY III SEMESTER

COURSE OUTCOME OF RURAL SETTLMENT GEOGRAPHY

Co1 Students will be familiar with various models related to the development of rural settlement.

Co2 Students will be familiar with the rural settlement of western countries and Asian countries and will understand the importance of service canters in rural areas.

Co3 Students will get to know about the types of traditional houses and their characteristics in different ports of the world.

Co4 Students will be familiar with the morphology of Indian villages and will be able to understand the utility plans and models in the construction of Indian villages.

M.A. IN GEOGRAPHY III SEMESTER

COURSE OUTCOME – PRINCIPLE OF ECONOMIC GEOGRAPHY

Co1 Students will be familiar with the scope and recent trends og economic geography and will understand the relationship of economic geography with other social sciences.

Co2 Students will be familiar with the physical, social, economic and cultureal factors influencing economic activities and will also be familiar with the industries based on agriculture, mineral vegetation.

Co3 Students will be familiar with the modes of transportation and cost of transportation.

Co4 Students will be familiar with the market mechanism and will be able to understand the impact of green revolution and globaliyation on the Indian economy.

M.A. IN GEOGRAPHY IV SEMESTER COURSE

OUTCOME -URBAN GEOGRAPHY

Co1 Students will be familiar with the purpose and scope of the study of urban geography.

Co2 Students will be familiar with the internal structure of cities and understand the various theories of urban structure.

Co3 Students will get acquainted with the function of the city.

Co4 Students will be aware of the contemporary urban problems of the city and will be able to understand the land use of urban towns.

M.A. IN GEOGRAPHY IV SEMESTER COURSE

OUTCOME -PAPULATION GEOGRAPHY

Co1 Students will be familiar with the nature and scope of population geography.

Co2 Students will understand about spatial and global patterns of population and their determinant.

Co3 Students will be familiar with the structure of population in India.

Co4 Students will be aware of the factors affecting and the consequences of migration.

M.A. IN GEOGRAPHY IV SEMESTER COURSE

OUTCOME- INDUSTRIAL GEOGRAPHY

Co1 Students will be familiar with the nature, scope and development of industrial geography and elements and factors of its localization at present.

Co2 Students will be familiar with and be able to apply various theories and models of localisation of Industries .

Co3 Students will be familiar with various industries and methods of measuring the spatial distribution of industries.

Co4 Students will be familiar with environmental degradation caused by industry and will also be familiar with industrial policy ,.Well be aware of environmental protection.

PROGRAMESPECIFIC OUTCOME OF GEOGRAPHY

Pso1 Imbibing knowledge, skills and holistic understand of the earth ,atmosphere, ocean and the planet through analysis of landform development, crustal , mobility and tectonics, climate change and dynamics , soil foundation and classification, hydrological and oceanographic studies etc.

Pso2 Associating landforms with structure and process, establishing man- environment relationships. On exploring the place and role of geography us – aother social and earth sciences.

Pso3 Understanding the role and functioning of globle economics industrial locations, and the use and exploitation of resources with impact.

Pso4 Developing a sensitive and sustainable approach towards the ecosystem and the biosphere with a view to conserve natural systems and maintain ecological balance.

Pso5 Inculcating a tolerantmindset andattitude towards the vast socio- cultural diversity of India by studing and discussing contemporary concepts of social and cultural geography.

Pso6 Developing on understanding of geopolitics global geostrategic views and functioning of political system.

Pso7 Analysing the differential pattern of the human habitation of the earth, enough studies of human settlements and population dynamic.

Pso8 Understanding and accounting for regional disparities, poverty, unemployment and the impacts of glopaliyation. Explaining and analyging the regional diversity of India through interpretation of natural and planning regions.

Pso9 Overviewing ancient and contemporary geographical thought and its relationship with modern concepts of empiricism , positivism, radicalism, behaviuralism etc.

Pso10 Sensitisation and awareness about the hazards and disasters to which the subcontinent is vulnerable, and their management.

Pso11 Training in practical techniques of mapping, cartography, software, interpretation of maps, photographs and images etc. So as.to understand the spatial variation of phenomena on the earth‘s surface.

LukrdksŸkj ¼fgUnh ½&izksxke vkmVde

Po.1 fgUnh lkfgR; vkSj Hkk'kk dk 0;ofLFkr Kku izkIr gksxk ftlls mUgsa lkfgfR;d fodkl ds lac/k es leqfpr tkudkjh feysxhA

Po 2 lkfgR; lEizs'kksa ds eq[; fcUnqvksa dh tkudkjh izkIr gksxhA

Po 3 lkfgR; dh fofHkUu fo/kkvksa dk csgrj rjhds le>u dh ;ksX;rk dk fodkl gksxkA

Po 4 Hkk'kk;h fofo/krk ds lkFk&lkFk lkfgfR;d lkaLd`frd fofo/krk dk tkuu ds izfr tkx:d gksxsaA

Po 5 fgUnh lkfgR; ys[ku vkSj vuqokn dk eap feysxk ftldk mi;ksx dj tulapkj ds {ks= esa 0;fDrRo dk fodkl gksxkA

Po 6 vkfkqfud rduhdh lalk/kuksa dk bLrseky djrs gq, fgUnh lkfgR; dh tkudkjh izkIr djsaxsaA

Po7 ys[ku] okpu vkSj Jo.k ds lkFk&lkFk dYiuk "kfDr dk fodkl gksxk ftlls mudh lex 0;fDrRo es fu[kkj vk,xkA

Po 8 lkfgR; ds v/;;u ds i'pkr~ jkstxkj ds fofHkUUk {k=k dk igpku ldxA

Po 9 lkfgR; ys[ku dh leh{kkRed n`f"V vkSj fofo/k "kSyh dk fodkl gksxkA

Po10 LFkkuh; jk'Vh; vkSj oSf"od lkaLd`frdegÙo dk le> ldsxsaA

Po11 izR;sd LRkj ij thou ewY;ksa vkSj lkfgfR;d ewY;ksa dk fu/kkZj.k djus es l{ke gksxsaA

Lukrd izksxke vkmVde

Po.1 fo|kfFkZ;ksa dk fgUnh Hkk'kk dk leqfpr Kku gksxkA

Po.2 fo'k; ds rF;iw.kZ Kku ds lkFk&lkFk rkfdZd&fparu dk fodkl gksxkA

Po.3 fgUnh Hkk'kk o lkfgR; ds izfr vfHk:fp mRiUu gksxhA

Po.4 fgUnh Hkk'kk ,oa~ lkfgR; ds izfr vuqla/kkukRed n`f'Vdks.k tkx`r gksxkA

Po.5 lkfgR; ds v/;;u d lkFk&lkFk fo|kfFkZ;ksa dk lkaLd`frd ewY;ksa dk Kku gksxkA

Po.6 fo|kfFkZ;k dk u'kjrd lkekftd ,oa~ jk'Vh; ewY;ksa d izfr :>kku c<sxkA

Po.7 cks/kiw.kZ Hkk'kk;h dkS"ky dk fodkl gksxkA

Po.8 0;kogkfjd xq.kksa dk fodkl gksxkA

Po.9 ekr`Hkk'kk ds :lk esa fgUnh ds 'kCnk dh igpku gksxhA

COURSE OUTCOME-U.G.

B.A./ B.Com /B.Sc. / B.C.A. – Ist

vk-ik-1 ¼fgUnh Hkk"kk ,oa lEiz'k.k dk"ky½

Co.1-bl iz'u i= ds v/;;u ls Nk= fgUnh Hkk'kk dk Kku ,oa lEiz"k.k dq"kyrk izkIr djus esa leFk gk ldsaxsA

Co.2 Hkk'kk dk 0ofLFkr ,oa rdZ laxr Kku izkIr dj ldsaxsA

Co.3 ikfjHkkf"kd "kCnkoyh rFkk Hkk'kk dh fofHkUu bdkb;ksa&/ofu "kCn] vFkZ okD; bR;kfn dkKku izkIr dj ldsaxA

Co.4nsoukxjh fyfi dh oSKkfudrk@voSKkfudrk ¼lhekvk½ dk Kku izkIr dj ldsaxsA

Co.5 vuqokn dh mi;ksfxrk ,oa egŸo dk le> ldxsA

Co.6 i= ys[ku esa l{ke gk ldsaxsA

Co.7 dEI;wVj esa fgUnh dk vuqiz;ksx lh[k ldsaxsA

COURSE OUTCOME-U.G.

B.A./ B.Com /B.Sc. / B.C.A. – II nd

¼fgUnh ds Js'B fuca/k ,oa iz;ksxxr 0;kdj.k½

Co.1-fuca/k ys[ku dh le> fodfIr gksxhA
Co.2-dk;Zky;hu fgUnh ds Lo:Ik ,oa mlds iz;ksx ls ifjfpr gk ldxA
Co.3-Hkk'kk ds fofHkUu :iksa ¼ehfM;k] foÙk ,oa okf.kT; e'khuh Hkk'kk½ dk Kku izkIr dj ldxsA
Co.4 fgUnh dh 0;kdjf.kd dksfV;ksa ls ifjfpr gkxsA
Co.5 fgUnh Hkk'kk dk ekf[kd Kku ,oa ys[ku dkS"ky dk lao/kZu gksxkA

COURSE OUTCOME-U.G.

B.A./ B.Com /B.Sc. / B.C.A. – IIIrd

vk-ik-1 ¼fgUnh Hkk"kk ,oa lelkef;dh½

Co1 dFku dh "kSyh rFkk mlds iz;ksx dk le> ldxsA
Co2 fgUnh dh okD;&lajpuk rFkk fgUnh Hkk'kk vkSj mld fofo/k iz;kxk dh tkudkjh izkIr dj ldsxsA
Co3 vuqokn n{krk fodfIr gksxhA
Co4 laLd`fr dh vo/kkj.kk dk vPNh rjg le> ldxsA
Co5 lkfgR; dh fo/kkvk&dgkuh] ,dkadh] fuca/k] dfork bR;kfn dk Kku izkIr dj ldsaxsA

COURSE OUTCOME-U.G.

B.A.I fgUnh lkfgR;

¼izkphu fgUnh dk0;½

Co1 fgUnh lkfgR; ds bfrgkls dsvarxZr fofHkUu dkyks dk ifjp; izkIr dj ldxsA
Co2 vkfndky] Hkfädky rFkk jhfrdky dh ifjfLFkfr;ksa dk v/;;u dj dky fo'k'k dh izo`fRr;ksa dk le>u esa leFk gkxsA
Co3 Hkfädky dh fofHkUu /kkjkvk] mldh fo"ks"krkvk rFkk izfrfuf/k jpukdkjk dh jpukvk

rFkk mudh jpuk n`f”V dk le> ldxsA

Co4 fofHkUu jpukdkjk ds izfr lekykspukRed n`f”V dk fodkl gksxkA

Co5 dk0; ds Lo:lk dk Kku izkIr gksxkA

COURSE OUTCOME-U.G.

Paper-IIfgUnh dFkk lkfgR;

Co1 x| lkfgR; dh fo/kkvk l ifjfpr gkxsA

Co2 dFkk lkfgR; ds mn~Hko ,o fodkl l ifjfpr gkxsA

Co3 fofHkUu miU;kldkj ,o dgkuhdkj rFkk mudh jpukvk dh tkudkjh izkIr dj ldxsA

Co4 miU;kl ,oa dgkuh ys[ku gsr izsfjr gksaxsA

COURSE OUTCOME-U.G.

B.A.IIfgUnh lkfgR;

Paper-I ¼vokZphufgUnh dk0;½

Co1 vkjkqfud fgUnh dk0; d Lo:i fodkl ls ifjfpr gkxsA

Co2 vkjkqfud dky dh fofHkUu ifjfLFkfr;ksa lkekftd] jktuhfrd] vkfFkZd] /kkfed o lkfgfR;d&lkaLd`frd i`”BHkwfe ,o rn~tU; izo`fÙk;k dk le>u dh {kerk fodfl r gksxhA

Co3 vokZphu fgUnh dk0; dh leLr fo'k’krkvk ,oa rkRdkyhu dfo;ks ls ifjfpr gksxkaA

Co4 fofHkUu dfo;ksa dk rqyukRed v/;;u dj ldsaxsA

COURSE OUTCOME-U.G.

fgUnh lkfgR;

Paper–II ¼fgUnhfucaèk rFkk vU; x| fo/kk,W½

Co1 xBu fo/kkvk ds varxZr fuca/k] ,dkadh fo/kk ls ifjfpr gkx rFkk muds Lo:lk dk Kku gksxkA

Co2 x| fo/kkvk dk ;qxhu lanHkk ds vkyksd esa le> ldsaxsA

Co3 xaHkhj Hkko&fpUru] lokn & dyk vkSj euksjatu ls tqM+dj ykHkkfUor gkxsA

Co4 jaxep l ifjfpr gkxA

COURSE OUTCOME-U.G.

PaperfgUnh lkfgR;

iz”ui= izFke&tuinh; Hkk’kk lkfgR; ¼NRrhlx<+h½

Co1 NRrhlx<h+ Hkk’kk ds bfrgkl l ifjfpr gksxkaA

Co2 NRrhlx<h+ ds jpukdkjk rFkk mudh jpukvk dk Kku izkIr gkxkA

Co3 NRrhlx<h+ yksdks'fDr] eqgkojs] igsfy;kW bR;kfn ▮s ifjfpr gksxsA

Co4 NRrhlx<h+ lkfgR; ,oa lkfgR;dkjksa ds laca/k esa vkykspkRed n`f"V fodfl▮r gksxhA

B.A.III fgUnh lkfgR;

iz"ui= f}rh;&fgUnh Hkk"kk lkfgR; dk bfrgkl ▮ rFkk dk0;kax foospu

Co 1 fgUnh Hkk"kk lkfgR; ds bfrgkl ▮ ls ifjfpr gksxsA

Co2 fgUnh Hkk"kk ds fofo/k Lo:iksa dk Kkuizkir djuk dk lkFk&lkFk fgUnh ds 'kCn Hk.Mkj ls Hkh ifjfpr gksxsA

Co3 fgUnh lkfgR; ds bfrgkl ▮ ,oa dky&foHkkTku ls ifjfpr gksxsA

Co4 fofHkUu ;qxksa dh ifjfLFkfr;ksa ,oa eq[; izo`fRr;ksa ls ifjfpr gksxsA

Co5 dk0; dk Lo:lk] iz;kstu] NUn] jl] vyadkj& ;kstuk dk ▮w{erk ds lkFk le> ldsaxsA

,e- ,- ¼fgUnh½ izFke lsesLVj

fo"k;%& fgUnh lkfgR; dk bfrgkl▮

Co 1 vkfndky ls vk/kqfud dky rdd lkekftd] lkaLd`frd o jktuhfrd ▮anHkks dk le> ldsaxsA

Co 2 fgUnh lkfgR; ds bfrgkl▮ ds fodklØe ls ifjfpr gks ladsxsA

Co 3 vkfndky ls vc rd dh lkfgfR;d xfrfof/k;ksa ▮s ifjfpr gks ldsxsA

Co 4 jktuhfrd ,oa lkaLd`frd vkanksyuks ,oa muds lkfgfR;d ifjoru dk lac/k esa Kku izkIr dj ldsaxsA

Co 5 fgUnh ds Hkk"kkxr fodkl▮ Øe ls ifjfpr gks ldsaxsA

Co 6 [kM+h cksyh d dk0; Hkk"kk cuus vkSj fu[kju ds bfrgkl▮ ▮s ifjfpr gks ldsaxsA

Co 7 jk"Vh; uotkxj.k ds ifjn`"; ▮s ifjfpr gks ▮dsaxsA

Co 8 lkfgR; ls lacf/kr vkykspukRed ,oa rqyukRed v/;;u ls ifjfpr gks ldsaxsA

Co 9 fgUnh ds vkykspdks ds ifjp; }kjk fgUnh dk jk"VHkk"kk ds :i esa Lohdk;Zrk dh igpku gksxhA

,e- ,-¼fgUnh½ lsesLVj izFke

fo"k;%& fgUnh Hkk'kk ,oa Hkk'kk foKku

Co 1 fgUnh Hkk'kk ds bfrgkl ,oa fodkliØe l ifjfpr gk ldsaxsA

Co 2 fgUnh Hkk'kk ds fofo/k :iksa dh tkudkjh izkIr gksxhA

Co 3 lkfgR; v/;iu ds ek/;e l Hkk'kk foKku dh mi;ksfxrk dk le> ldsaxsA

Co 4 Hkk'kk foKku ds Hksn ,oa mudh vyx&vyx "kk[kkvks ls voxr gkxsA

Co 5 Hkkjrh; vk;Z Hkk'kkvks dh ,sfrgkfld i`"BHkwfe l ifjfpr gkxsA

Co 6 fgUnh Hkk'kk ds vkiqfudhdjr ,oa ekudhdjr ls ifjfpr gkxsA

Co 7 vo/kh] czt ,oa [kM+h cksyh dh fo'ks'krkvk ls ifjpfr gkxsA Co

8 fgUnh Hkk'kk ds Lo:i ls voxr gk ldasxsA

Co 9 nsouksxjh fyfi ds fodkl ds voxr gk ldsaxsA

Co 10 fgUnh ds "kCn Hknk d fodkliØe l ifjfpr gkxA

,e- ,-¼fgUnh½ izFke lsesLVj

fo"k;%& izkphu ,oa e/;dkyhu dk0;

Co 1 fgUnh lkfgR; ds bfrgkl dh vkfndkyhu]HkfDrdkyhu ,o jhfrdkyhu i`"BHkwfe l ifjfpr gkxsA

Co 2 izkphu ,o e/;dkyhu dfo;ksa rFkk mudh lkfgfR;d d`fr;ksa l ifjfpr gkxsA

Co 3 dfo;ksa }kjk viuk;s x, dk0; d fofHkUu Lo:iksa ls voxr gkxsA

Co 4 fofHkUu dfo;ksa dk lekykspukRed ewY;kadu dj lkfgR; esa LFkku fu:fir dj ldsaxsA

Co 5 izkphu ,o e/;dkyhu dfo;ksa dh dk0;dyk l ifjfpr gk ldsaA

,e- ,- ¼fgUnh½ izFke lsesLVj

fo"k;%& HkDr dfo lwjnkl

Co 1 HkDr dfo lwjnkl ds dfoÙo ls ifjfpr gk ldsaxsA

Co 2 lkfgR; txr esa lwjnkl ds egŸo l ifjfpr gk ldxsA

Co 3 HkfDrdkyhu dfo;ksa dk rqYkukRed v/;;u dj ldsaxsA

Co 4 lwjnkl dh HkfDr&Hkkouk l voxr gkxsA

Co 5 rqyukRed ,oa vkykspukRed v/;;u ls uohu "kks/k n`f"V fodfl r gksxhA

Co 6 lwjnk l dh dk0;xr fo'ks'krkvk ls ifjfpr gkxsA

Co 7 lwjnk l d dk0; dh izklafxdrk l voxr gkxA

Co 8 lwjnk l d okRlY; o=Lu ls ifjfpr gkxsA

,e- ,- ¼fgUnh½ izFke lesLVj

fo"k;%& 'kks/k izfof/k ,oa dEI;wVj ,lyhds'ku

Co 1 'kks/k dh vo/kkj=kk ls ifjfpr gkxsA

Co 2 vuqla/kku dh i`'BHkwfe ls ifjfpr gkxsA

Co 3 'kks/k izLrko dh :ijs[kk ls ifjfpr gkxsA Co

4 'kks/k dk;Z esa m)s';&fu/kkZj k ls voxr gkxsA Co

5 'kks/k ,o izdk'ku 'kCnkoyh ls ifjfpr gkxsA

Co 6 leadk dk izlaLdj=k] oxhZdj=k ,oa izLrqfrdj=k ds v/;;u ls ifjfpr gkxsA

Co 7 vkadM+s ,d=k dh fof/k;ksa l ifjfpr gkxsA

Co8 fl)kar fuek=k ,o 'kks/k izfrosnu ys[ku ls voxr gkxsA

,e- ,- ¼fgUnh½f}rh; lesLVj

fo"k;%&vk/kqfud dk0;

Co 1 vk/kqfud fgUnh dk0; dh izo`fr;ksa ls ifjfpr gksaxsA

Co 2 izca/k vkSj eqDrd dk0; ds rkfÙod Lo:Ik dh tkudkjh izkIr gksxhA

Co 3 vk/kqfud dky ds lkekftd ,o lkaLd`frd ifjn`'; dk le> ik;saxsA

Co 4 vk/kqfud dkO; ds v/;;u ls ewY;kadu dh n`f'V fodfl r gksxhA

Co 5 vk/kqfud ;qx ds dk0; izdkjk ds fodkIØe ,oa rkfRod Lo:i ls ifjfpr gkxsA

Co 6 vk/kqfud dfo;k dk v/;;u dj rqyukRed Js'Brk fu/kkZjr djxsA

Co 7 vk/kqfud dkO; ds {ks= esa uohu 'kks/k n`f'V ,oa 'kks/k izo`fr fodfl r gkxhA

Co8 izca/k dk0; vkSj eqDrd dk0; d fodkl Øe ls ifjfpr gkxsA

,e- ,- ¼fgUnh½ f}rh; lsesLVj

fo"k;%& Hkkjrh; dk0; 'kkL=

Co 1 Hkkjrh; lkfgR; 'kkL= ds Lo:i ls ifjfpr gksaxsA Co

2 Hkkjrh; lkfgR; 'kkL= ds fodkl Øe ls ifjfpr gksxsA Co

3 lkfgR; 'kkL= ds dk0; iz;kstuk ls ifjfpr gksaxsA

Co 4 dk0;'kkL= dk ifjp;] dk0;y{k.k] dk0; gr ls voxr gksxsA

Co 5 Hkkjrh; lkfgR; 'kkfL=;ksa }kjk crk;s x;s dk0; ds izdkjk l ifjfpr gksxsA

Co 6 jl dh vo/kkj.kk] jl fu'ifRr ,oa lk/kkj.kh dj.k ds egŸo dk le> ldsaxsA

Co 7 /ofu fl)kar d lkFk&lkFk Hkkjrh; lkfgR; 'kkL= ds ewy fl)kark dk le> ik;saxsA

Co 8 lkfgR; 'kkL= ds v/;;u ds ek/;e l leh{kkRed n`f'V fodfl r gksxhA

Co 9 fgUnh ds vkykspdk ds ifjp; }kjk fgUnh dk jk'VHkk'kk ds :i es Lohdk;Zrk dh igpku gksxhA

ifj;kstuk dk; lkj

,e0,0 fgUnh f}rh; lsesLVj ds prqFk iz'u i= ^^lkekftd vf/kxe ,oa dkS'ky fodkl^^ ds varxZr ifj;kstuk dk;Z gr t'kiqj dh LFkkuh; unh ¼ckadh unh½ dk pquk x;k tk fd t"kiqj dh thou js[kk ekuh tkrh gSA ;g unh xaxe flVksaxk ls fudydj HkqMdsyk xko ds ikl ykok unh e fey tkrh g vkSj ykok unh vkx tkdj 'ka[k unh e fey tkrh gSA

;|fi unh dk izokg {ks= cgqr vf/kd ugh g fdUr fQj Hkh blds rVorh {ks=ksa esa cls xkok ds fy, ;g unh mi;ksxh gSA c<+r i;kZoj.k iznq"k.k rFkk vfrØe.k ds dkj.k unh dh orZeku voLFkk 'kkspuh; gSA Loa;lsoh laxBuk rFkk fofHkUu eqnk;ksa dh igy rFkk iz"kkfud lg;ksx ls foxr dqN eghuk ls blds lao/kZu ,oa iqu:)kj dk dk;Z izxfr ij gSA ckWdh unh dh mi;ksfxrk vkSj mlds LFkkuh; egÙo dk /;ku esa j[kdj gh ** i;kZoj.k dh dlkSVh ij ckWdh unh ^^ fo'k; dk ifj;kstuk dk;Z gsr pquk x;kA

bl ifj;kstuk ds p;u dk m)s'; fo|kfFkZ;k dk tylzksrk ds egŸo dk Kku nu d lkFk&lkFk unh dh mi;ksfxrk dk le> mlds laj{k.k ,oa lao/kZu gsr izsfjr dju Hkh FkkA bl ifj;kstuk ds ek/;e ls fo|kfFkZ;k u unh ds mn~xe ls ysdj eqgku rd voyksdu dj mldh ,sfrgkfld i`"BkHkwfe dk Hkh ifjp; izkIr fd;kA Jenku ds }kjk unh ,oa unh ds fdukjks dh lQkbZ dhA fgUnh foHkkx dh igy ij iwjk egkfo|ky; bl iquhr dk;Z esa lfEefyr gqvk ftlesa egkfo|ky; ds izkpk;Z MkW0 fot; dqekj jf{kr ds ekxZn'kZu ,o lg;ksx dh egrh Hkwfedk jghA

fo|kfFkZ;ksa u ifj;kstuk dk;Z izfrosnu ds varxZr unh d mn~xe dh dFkk] mldk izokg {ks=] mi;ksfxrk dk j[kkafdr fd;kA lkFk gh unh dh orZeku fLFkfr ij fpUrk 0;Dr djr gq, unh iznq'k.k ds dkj.kk dk irk yxk;k rFkk mld laj{k.k gsr mik; ,o lq>ko Hkh fn;kA

fnukad 06-08-2022 dk ifj;kstuk dk;Z izfrosnu vk/kkfjr ekSf[kd ijh{kk dk vk;kstu fd;k x;k ftlds ek/;e ls muds dk;ksZ dk ewY;kadu Hkh fd;k x;kA ekSf[kd ijh{kk e Jh ,0vkj0 cSjkxh lgk0 izk/;id ¼okf.kT;½ rFkk Jh ,l0ih0 Hkxr lgk0 izk0 fgUnh uohu 'kk0 egkfo|ky;] euksjk fo'k; fo'ks'kKk ds :i esa mifLFkr FksA

fuf'pr gh ifj;kstuk dk;Z Nk=k ds 0;fDrRo fodkl esa lgk;d gSA bll mUkdh lekykspuk n`f'V] rkfdZd {kerk vkSj dkS'ky dk fodkl gkrk gSA

COURSE OUTCOME-P.G.

,e- ,-¼fgUnh½ r`rh; lesLVj

iz"ui= izFke& fgUnh fucaèk ,oa vU; xn~; fo/kk,¡

Co 1 fgUnh xn~; dh fofHkUu fo/kkvk ds mn~Hko ,oa fodkl Øe ls ifjfpr gkxsA

Co 2 fuca/kk dh izd`fr vkSj muds Hksnk dk leqfpr Kku izkIr dj ldxsA

Co 3 izeq[k fuca/kdkj vkSj muds fuca/kk dk Kku gkxk rFkk Lo; ds jpukRed fopkj rFkk l`tukRed {kerk dk fodkl gksxkA

Co 4;k=k laLej.k ls O;fDr;ksa] LFkkuk] izd`fr ,oa i;kZoj.k] ls ifjfpr gk ldsaxsA

Co 5 laLej.k rFkk Mk;jh ys[ku gr izsfjr gkxsA

COURSE OUTCOME-P.G.

,e- ,-¼fgUnh½ r`rh; lesLVj

iz"u i= f}rh;&Nk;koknksÙkj fgUnh dk0;

Co 1 Nk;koknksÙkj dk0; ds fodkIØe rFkk mlds Lo:Ik ,oa izo`fÙk;k dk le> ldsasxsA

Co 2 lkekftd] jktuhfrd cnyko d lkFk dk0; izo`fÙk;k es gq, ifjorZuks dk csgrj <ax le> ldsaxsA

Co 3 dk0; {ks= es vk;h uohu Hkkoukvk ,oa lanukvk dk le> ldsaxs ftl uohu 'kks/k n`f'V dk fodkl gk ldsxkA

Co 4 Nk;koknksÙkj dfo;ksa vkSj mudh jpukvk ifjfpr gkxsA

Co 5 dk0; jpuk dh vksj izo`r gkxsA

COURSE OUTCOME-P.G.

,e- ,-¼fgUnh½ r`rh; lesLVj

iz"u i= rrh;&ik'pkR; dk0;'kkL=

Co 1 ik'pkR; dk0;'kkL=ds Lo:i] mldh izo`fÙk;k rFkk fodkIØe ifjfpr gkxsA

Co 2 Hkkjrh; rFkk ik'pkR; dk0;'kkL= es varj ,oa lekurk dk Bhd rjg ls le> ldsaxsA

Co 3 u;h leh{kk ds fl)kar dk le>u l uohu leh{kkRed nf"V fodflr gkxhA
Co 4fgUnh vkykspuk ds fodkl Øe l ifjfpr gkx rFkk lekykspukRed {kerk fodflr gksxhA
Co 5 ik'pkR; leh{kdk ,oa mudh leh{kk i)fr ls ifjpr gkxsA

COURSE OUTCOME-P.G.

,e- ,-¼fgUnh½ r`rh; lsesLVj

iz'u i= prqFk &ckS)d lEonk] ekuokf/kdkj rFkk i;kZojÆk

Co 1 isVsaV dk lanHkZ] mlds izdkj vkSj rr~laca/kh varjkZ"Vh; uhfr;ksa dk Kku gksxkA
Co 2 isVsaV dh izfØ;k vkSj "kÙkk dk Kku izklr djxA
Co 3 dkihjkbV¼Copy right½ dk vFk ,o mlds ,sfrgkfld ewY;kadu rFkk mlds fo"k; {ks= dk tku ldsaxsA
Co 4ekuo vf/kdkj d iwj lanHk dk vPNh rjg le> ldxsA
Co 5 jk"Vh; ekuokf/kdkj vk;ksx dh dk;ZiÆkyh dk tku ldsaxsA
Co 6 mPp U;k;ky; ,oa {ks=h; U;k;ky;ks dh U;k;izfØ;k] mlds dk;ksZ dk Kku izklr gksxkA
Co 7 i;kZojÆk vkSj /kkjÆkh; fodkl dh vo/kkjÆkk dk le> ldxsA
Co 8 varjkZ"Vh; ekuokf/kdkj dkuwu rFkk i;kZojÆk ds fo'k; esa xgu tkudkjh fey ldsxhA

COURSE OUTCOME-P.G.

,e- ,-¼fgUnh½ r`rh; lsesLVj

iz'ui= iape& ^^yksd lkfgR;

Co 1 yksd lkfgR; dk vFkZ] {ks=] Lo:i ,oa mlds v/;;u ds egÙo ls ifjfpr gkxsA
Co 2 yksd lkfgR; dh fofHkUu fo/kkvk dk Kku izklr gksxkA
Co 3 yksd lkfgR; ds lkekftd] lkaLd`frd ,o lkfgfR;d egÙo dk le> ldsaxsA
Co 4 oS'ohdjÆk ds nkj es fod`r vkSj foyqIr gksrh yksd laLd`fr vkSj lkfgR; ds laj{kÆk gr izsfjr gkxsA
Co 5 yksd lkfgR; esa fufgr uSfrxZd lkSan;Zcks/k mldh ljlrk vkSj lgtrk dk le> ldsax rFkk bl {ks= e "kks/k gsr izsfjr gkxsA

COURSE OUTCOME-P.G.

,e- ,-¼fgUnh½ prqFk lsesLVj

iz'u i= izFke & ^^Hkkjrh; lkfgR;**

Co 1 Hkkjr ns'k dh fofHkUu Hkk'kvk ds lkfgR; vkSj lkfgR;dkjk rFkk mudh jpukvk ls ifjfpr gkxsA

Co 2 fofHkUu Hkkjrh; Hkk'kvk ds lkfgR; ds v/;;u n~okjk Hkkjrh; laLd`fr ls ifjfpr gkxsA

Co 3 fgUnh ds lkFk&lkFk vU; Hkk'kkvks tSls rfey] laFkkyh] xqtjkrh] d"ehjh Hkk'kk dh dforkvk dk Kku izkIr gksxkA

Co 4dUuM+ ukVd ds mn~Hko fodkl rFkk ukVdh; dyk ,oa rRoks ls ifjfpr gkxsA

Co 5 ckaXyk miU;kl dh fodkl ;k=k dk Kku izkIr dj ldxs rFkk miU;kl ds ek/;e ls rkRdkyhu lkekftd ifjos'k ls ifjfpr gks ldsaxsA

Co 6 Hkkjrh; Hkk'kkvk dk "kkL=h; ,oa rqyukRed v/;;u dju esa {ke gkxsA

COURSE OUTCOME-P.G.

,e- ,-¼fgUnh½ prqFk lsesLVj

iz'u i= rrh;& ^^iz;kstu ewyd fgUnh**

Co 1 fgUnh Hkk'kk ds fofo/k :iksa dk ifjp; izkIr dj ldsaxsA

Co 2 iz;kstuewyd fgUnh d Lo:i dk le> mldk 0;ogkfjd mi;ksx dj ldsaxsA

Co 3 dk;kZy;h fgUnh dk lSn/kakfrd Kku mlds 0;kogkfjd mi;ksx dk ekxs iz"kaLr djsxkA

Co 4 0;kolkf;d i=&ys[ku esa n{krk gkfly gksxhA

Co 5 tu&lapkj ek/;e ds {k= esa jkstxkj izkIr dju esa lQy gkxsA

Co 6dalE;wVj] baVjuV ds lac/k es tkudkjh izkIr dj vkt ds nkSj es mldk csgrj iz;ksx lqfuf"pr dj ldsaxsA

Co 7 vuqokn ds {ks= esa jkstxkj dh laHkkouk c<+xhA

COURSE OUTCOME-P.G.

,e- ,-¼fgUnh½ prqFk lsesLVj

iz'ui= PkrqFk & ^^ fgUnh i=dkfjrk**

Co 1 fgUnh i=dkfjrk ds Lo:i] fodkl Øe ls ifjfpr gkxs tk fd i=dkjfrk ds {ks= es uohu n`f"Vdks fodfIr dju esa lgk;d gksxkA

Co 2 fgUnh ds izeq[k i=&if=dkvks ds Lo:i] egÙko ,oa ;ksxnku dk le> ldxsA

Co 3 i=dkfjrk ds {ks= es jkstxkj dh laHkkoukvk dh ryk'k dh tk ldsxhA

Co 4 bZekunkj vkSj fu'i{k i=dkj cuu dh fn'kk es izo`r gkxsA

COURSE OUTCOME-P.G.

,e· ,-¼fgUnh½ r`rh; lsesLVj

iz"u i= iape & ^^vuqokn foKku**

Co 1 vuqokn d vFkZ izdkj {ks= rFkk egÙo ,oa mi;ksfxrk dk Bhd rjhds ls le> ldsxsA
Co 2 vuqokn dh izfØ;k ls voxr gkxsA
Co 3 vuqokn dh {kerk fodflr gksxh tk jkstxkj izkIr dju esa lgk;d gkxhA
Co 4 lzksr Hkk'kk ds lkfgR; ls Kku dk le`n`/k cuk ldsaxsA
Co 5 vuqokn djr le; vku okyh dfBukb;k¡] leL;kvk rFkk mlds lek/kku ls ifjfpr gkxsA
Co 6 ikfjHkkf'kd "kCnk dk Kku gksxkA
Co 7 eqgkojs@yksdksfDRk;ksa dk yk{kf=kd iz;ksx dj ldsaxsA

COURSE OUTCOME-P.G.

,e· ,-¼fgUnh½ f}rh; lseLVj

iz"u i= iape & ^^Nk;kokn dk0;**

Co 1 Nk;koknh dk0; dh i`'BHkwfe ls ifjfpr gkxsA
Co 2 Nk;koknh dk0; ds izo`fÙk;k ls ifjfpr gkxsA
Co 3 Nk;koknh izeq[k dfo ,aoa muds d`fr;ksa l voxr gkxsA
Co 4lkekftd cnyko ds lkFk dk0; d {ks= esa gksus okys ifjoru dk le> ldxsA
Co 5 ;FkkFkZ dh vfHk0;fDr dk le>ldsaxsA
Co 6LoNUnrkoknh dk0; dh i`'BHkwfe vkSj m ldh izo`fÙk;k ls ifjfpr gkxsA
Co 7"kks/k ds {ks= esa uohu vUos'k=k dh vksj vxzlj gk ldsaxsA
Co 8 Nk;koknh dfo;k dk rqyukRed v/;;u ls ifjfpr gkxsA

COURSE OUTCOME-P.G.

,e· ,-¼fgUnh½ f}rh; lsesLVj

iz"u i= iape & ^^dFkk lkfgR;**

Co 1 izeq[k xn~; fo|kvk ds fodkl Øe ls voxr gkxsA
Co 2 xn~; dh izeq[k fo|kvk ds rkfRod Lo:Ik ls ifjfpr gkxsA
Co 3 vkÙkqfud dkO; ds {ks= esa uokpkjkRed v/;;u ,oa uohu "kks/k n`f"V izo`fÙk fodflr gkxhsA
Co 4izeq[k dFkkdkj rFkk mudh jpukvk ls voxr gkxsA Co
5 lkfgR; vkSj lekt ds var% laca/kk dk le> ik;sxsA Co
6dFkk lkfgR; ds {ks= esa uohu "kks/k n`f"V fodflr gksxhA
Co 7rRdkyhu ,oa ledkyhu thou ds u'krd ewY;ksa ls ifjfpr gkxsA
Co 8jpuk ds vkLoknu ,oa leh{kk dh {kerk fodflr gksxhA

PROGRAMME OUTCOME FOR
B.A. DEPARTMENT OF HISTORY
GOVT. R.B.R.N.E.S.P.G. COLLEGE JAHPUR NAGAR

Programme	Programme outcome
B.A. (History)	• To promote research in the field of history among the students. • To developcriticalthinkingoncurrentcontemporaryissuesbytakinglession. • To mentainthegloriousculturalofthecountryandtothetransferitto coming generation. • Tomaketheprogrammejoborientedandtoprepareforthecompitative examination of central and state. • To develonation national and international sprit in the students

CLASS - B.A.
COURSE
OUTCOME

S.N.	CLASS	PAPER	PAPER TITLE	COURSE OUTCOME
01	B.A. 1st	Paper 1st	Historyof India (from beginningto 1206AD)	To study the political, administrative, economic, socio, and cultural Historyof Ancient India and Chhattisgarh.
		Paper 2nd	History of the world (1453-1890) AD	To develop an understanding of the political changes from 1453AD-1890AD in the modern world.
02	B.A.2nd	Paper 1st	History of India (1206-1761) AD	To study the political-administrative, economic and cultural history of medieval India and Chhattisgarh.
		Paper 2nd	World History (1890-1964) AD	To develop an understanding of the political administrationandeconomicchangesofworldhistory from 1890-1964 AD in the students through this question paper.
03	B.A.3rd	Paper 1st	History of India (1761-1947)AD	TostudythearrivalofEuropeansinIndiaanditseffectson Indian politics administration society and culture.
		Paper 2nd	History of the Indian freedom movement (1857-1947)AD	TostudythenationalmovementofIndiaandto familiarize myself with the effects of the national movement in Chhattisgarh.

PROGRAMME OUTCOME FOR M.A.

PROGRAMME	PROGRAMME OUTCOME
M.A. (History)	• Identify and define basic term and concept which are needed for advanced course and history. • independent judgement, andregional sencsenitivity global and national perpaspective to solve problems concerning humanities. • Intigrate knowledge of Indian and ancient history. • Preparationforcompatativeexamination at thecentralandstatelevel. • To promote research interest in history among the students.

CLASS – M.A. 1 SEMESTER (HISTORY) COURSE OUTCOME-

S.N.	Course code/ course type	Course title	Course outcome
01	MAH 101/CCC	Concept of History	IntroducingthestudenttothedevelopmentofHistory, payingattentiontothevarioustheoriesofHistoryand its relation to other humanities subjects.
02	MAH 102/CCC	Modern world	Capitalism socialism and imperialism in the world and significant globalpolitics.
03	MAH 103/CCC	Ancient and medieval Chhatisgarh	To acquaint with the ancient, medieval political the socio-economic cultural situation of Chhatisgarh.
04	MAHA 02/ECC	History of china Japan (1800-1911)	To study the entry and influence of Europeans in china and tostudytheimperialist perspectiveof Japan.
05	MAHA02/OSC	Research Methodology and computer application basics.	Understand the concept and place of research in the concerned subject. Getting acquainted with various resourcesforresearchbecomesfamiliarwithvarious tools forresearch.

CLASS – M.A. II SEMESTER
(HISTORY) COURSE OUTCOME-

S. N.	Course code/course type	Course title	Course outcomes
01	MAH 201/CCC	Historiography	To develop an understanding of the various dimension of historiography among the students of history.
02	MAH 202/CCC	Contemporary world	To understand and outline the political-economic socio-cultural changes of the contemporary world.
03	MAH 203/CCC	Modern chhatisgarh	British policy towards the princely states of Chhatisgarh, the effect of national folk culture and tradition.
04	MAH S02/OSC	Social outreach and skill development	To promoteresearchinstinct inthestudentbygivingthis paperandtopreparehimtomoveforwardinthepractical field.
05	MAH B02/ECB	History of chaina and Japan (1911-11950)AD	TounderstandtheroleofchinaandJapaninthehistoryof far east Asia, tostudythe relationship between china and japan on a global scale.

CLASS- M.A. III SEMESTER
(HISTORY) COURSE OUTCOME –

S.N.	Course code/course type	Name of the course	Course outcomes
01	MAH301/CCC	Historyofa national movement (1857–1922) AD	To acquaint the students with the various dimensions of the national movement of India.
02	MAH 302/CCC	Ancient India (2500BC-1000AD)	To understand the political socio- cultural economic change of ancientIndia.
03	MAH 303/CCC	Indian polity and economy in the sultanate period (1200-1526)AD	To make the students aware of the sultanate period administration and its economic social and cultural system.
04	MAH 503/OSC	Intellectual property human rights and environment studies	Patents, copyright, and human right develop an understanding of the environment and human rights.

05	MAHC03/ECB	Thinkers of modern India (1920-2000)AD	To acquaint withthe thinkers who are helpful in the development of Indian society and contributing to the makingof modern India.

CLASS – M.A. IV SEMESTER
(HISTORY) COURSE OUTCOMES
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S.N.	Course code	Course title	Course outcome
01	MAH 401/ CCC	History of Indian national movement (1922- 1947) AD	To acquaint the student with the history of the Indian national movement.
02	MAH 402/ CCC	Indian polity and economy in the Mughal period.	To acquaint the student with the history and central administration of the Mughal period.
03	MAH 403/ CCC	Modern India (1858- 1964)AD Political and Administration	To develop an understanding of the changes in politics in modern India towards administrative reform.
04	MAH 504/OSC	Dissertation	Thepurposeofthispaperistoboastabouttheresearch instincts of thestudents.
05	MAHD03/ECB	Tourism theory and principles of History	Bringingtolightthe historical tourist places of India and Chhatisgarh.

COVRSE AND PROGRAM OUTCOMES OF MATHEMATICS (B.Sc.I)

Core course-I (Algebra and Trigonometry)
Learning outcomes: oncompletionofthisareaofThecourse,thestudent will be ableto

- Understand the nature of theoryof equations, Group theory, Ring theory, Field theory and trigonometry.
- Find the inverse of the matrix
- Find the rank and nullity of the marlix.
- Solve various simultaneous linear equation.
- Derive relation between the roots and coefficients of general polynomial equation in one variables.
- Solve cubic equation cardanmethods.
- Derive the De- movires theorem and its applications.
- Derive logarithms of a complex quantity.
- Derive expansion of trigonometrical functions.
- Derivethefundamentaltheoremsofhomomorphism's.

B.Sc.I

Core course - II (Calculus)
Learning outcomes: on completion of this area of The course, the student will be able to

- Understand the nature of limit, continuity, Differentiability, Asymptotes, Curvature, Tracing, integration of transcendental functions, Differentialequationsetc.
- Solve Variousproblemof limi, continuityanddifferentiability.
- Solve various limit problems using L- hospital rule.
- Find equation of asymptotes, curvature.
- To identify the type of a given differential equation and select and apply the appropriate analytical techniques for finding the solution the students will be well conversant with the following types of differential equations.

- Degree and order of a differentialequations, first order higher degree equations solvable for x,y,& p,Clairaut forms and singularsolution homogeneous linear ordinary differentialequations.
- Linear differentialequations of second order, Transformation of the equation by changing the dependent variables/the independent variables, method of variation of parameters, ordinary simultaneousdifferentialequations.

B.Sc.I

Core course - II(Vector Analysis and Geometry)
Learning outcomes: on completion of this area of The course, the student will be able to

- Find the triple product of vectors and their application.
- Deducethe vector equationssubject to different condition.

- Understandtheapplicationsofvectoralgebra(Particularly,vector products)
- Learn operations with vector valued functions.
- Differentiateandintegratevectorfunctionsofonevariables.
- Becomefamiliarwiththepolarequationofconicsandtheirtangents and normal.
- Understand the geometrical terminology and have a detailed clear cut idea of the planes, Straight lines in 3D, spheres, cylindrical surfaces, central conicoids, paraboloids, plane sections of conicoids along with the tangent and normal of the conicoids.
- Have an idea of classification of quadrics.
- Develop an idea of the generating lines.
- 10 Be familiar with the illustrations of graphing standard quadric surfaces like cones, paraboloids, hyperboloids and ellipsoids.

COURSE AND PROGRAM OUTCOMES OF MATHEMATICS (B.Sc. II nd)

Core course – I (AdvancedCalculus)

Learning outcomes: on completion of this area of the course, the student will be able to

- Understandthenature of sequence, series, envelope, evolutes, beta and Gammafunctions.
- Solve various limit,continuity,Differentiability problems.
- Solve various limit problems using L- hospital rule.
- Findsumof various series usingdifferent theorems.
- Findconvergenceordivergenceofthevariousseries.
- Derive relation between beta and gamma function.
- Find the value of various double and triple integrals..
- Solveme integral usingbeta and gamma functions.
- Find higher derivatives and apply the Leibnitz rule to solve problems related to suchderivatives.
- Solvevarious limit, continuity, differentiabilityproblems for two variables.

(B.Sc. II nd)

Core course –II (Differentialequation)

Learning outcomes: on completion of this area of the course, the student will be able to

- Understand the nature of power series, Frobenious series,bessels series for differentialequations.
- Derive and solve different types of partial differential equations which may arise in real life problems.
  PartialDifferentialequations of the first order, lagranges solution non-linear first order partial differentialequations,charpitsgeneral methodofsolutions. Somespecialtypeofequationswhich can be solvedeasilytomethodsotherthanthegeneralmethods.
- Solve sturm .liouvilleproblems.
- Solve laplaceequations.
- Deriverecurrencerelationforbesselsdifferentialequations.

(B.Sc. II nd)

Core course –III (Mechanics)

Learning outcomes: After completion of this course, the student will be able to learn and explain differentconceptsonmechanicscoveredby the following.

- Analytical conditions of equilibrium stable and unstableequilibrium, virtual work, catenary.
- Forcesinthreedimensions,poinsotscentralaxis,nulllineandplane.
- Simple harmonic motion, Elastic Strings, Velocities and accelerations along radial and transverse directions,projectilecentralorbits.
- Keplers laws of motion, velocities and acceleration in tangential and normal directions, motion on smoothandroughplanecurves.
- Motion in a resisting medium, motion of particles of varying mass, motion of a particle in three dimension, acceleration in terms of different co-ordinatesystem.

COURSE AND PROGRAM OUTCOMES OF MATHEMATICS (B.Sc. IIIrd)

Core course – I (Analysis)

Learning outcomes: Aftercompletionofthiscoursethestudentwillbe able to

- Think about the basic proof, techniques and fundamental definitionsrelated to real and complex numbers.
- Understand the nature of sequence, series, limit, continuity and differentiability(Two variables) Fourier series, Riemann Integral and improper integral, metric spaces and topology.
- They can demonstrate some of the fundamental theorems of analysis.
- The student will gradually develop analysis skills in sets, sequance and infinite series of real and complexnumbers.
- Solvevariouslimit,Continuityanddifferentiabilityproblemsfortwo variables.
- Solvevariousfourierseries,Riemannintegral,improperintegral.
- Derivevariousfundamentaltheoremof Riemannintegral.
- Derive properties of Riemann integral.
- Developthecapacitytointegratewhileunderstandingtheexamples of Riemann integrable functions.
- Learnthetestof convergence:comparisonandM-Test,Absoluteand non- absolute convergence and inter-relations.
- Understand the statement of abels and dirichlets test for convergence on the integral of a product.

(B.Sc. IIIrd)

Core course – II (Abstract algebra)

Learning outcomes: Aftercompletionofthiscoursethestudentwillbe able to

- Understandmenatureofgrouptheory,Ringtheory, modulevector spaces, lineartransformation andinnerproductspaces.
- Develop a concept of group theory and ring theory of abstract algebra indetails.
- Understand vectorspaceoverafieldandsubspaceandapplytheir properties.

- Understandlinearlyindependenceand dependence
- Findthebasisanddimensionofavectorspaceandunderstandthe change ofbasis.
- Compute linear transformation,kernel and range and inverse linear transformationandfind matricesofgenerallineartransformations.
- Find eigen values and eigen vectors of a matrix and of linear transformation.
- The caley Hamilton theorem and its use in finding the inverse of a matrix.
- Understandvariousconceptsofabstractandlinearalgebra.

(B.Sc. IIIrd)

Core course – III (DiscreteMathematics)

Learning outcomes: On successful completion of the course students will be able to develop conceptual understanding.

- **Sets and Properties :**Cardinality, mathematical induction, principle of inclusion and exclusion, permutations, combinations and discrete probability .

- **Relations and Function:** Binary Relations, Equivalence relations and partitions, partial order relations and lattices, chain and antichain pigeon holeprinciple.
- **Finite state machine:**Equivalent machine, Finite state machineas language recognizers.
- Recurrence Relations and recursivealgorithums.
- **Boolean Algebra:** Lattices and algebraic structure, duality, Distributive and complemented lattices, Boolean lattices and Boolean algebras, Boolean functions and expressions, prepositional calculus, design and implementations of digital networks, switching circuits .

PROGRAM OUTCOMES OF MATHEMATICS (B.Sc.)

Oncompletionofthiscoursethestudentswillbeabletothinkabout thebasic Proof, Techniquesand fundamentaldefinitions relatedtothe followings.

- Matrices * Theory of equation.
- Set theory * Relation* Functions
- Group theory * Ring theory *Field theory
- Complex Numbers*Trigonometry
- Limit, continuity and differentiability for one variables.
- Limit, continuity and differentiability for two variables.
- Sequence * Series * Jacobians
- Beta and Gammafunctions
- Double and triple Integrals .
- Power series * Frobenious series
- Bessel‘s differential equation
- Sturm liouvilleproblems
- Ordinary differential equations(ODE)
- Partial differential equation(PDE)

- Calculus ofvariations
- Fourierseries*RiemannIntegral
- Improperintegral* metricspaces
- Topological spaces
- Modules * vectorspaces
- Vector subspaces* linear transformation
- Inner productspaces
- Mathematical induction
- Combinations *permutation
- Probebility * Generatinglines
- Generating fuctions
- Boolean algebra

PROGRAM OUTCOMES OF MATHEMATICS (M.Sc.)

On completion of this course the students will be able to think about the basic proof. Techniques and fundamental definitions related to the followings.

- Groups theory * Ring theory * Field theory
- Normal and subnormalseries
- Solvable groups *transformations
- Modules * the Riemann- stieltjes integral
- Canonical form
- Sequence and series of functions
- Power series* functions of several variables
- Jacobians* set theory* countableanduncountablesets
- Topological spaces*compactness
- Completeness * lattice * Graphs
- Trees* Booleanalgebra
- Extension field* galoisfields
- Noetherian and artenianrings
- Measure theory*some measurable spaces
- Connectedness* producttopology
- Signed measure * Inner Product spaces
- Banach spaces* Hilbertspaces
- Partial differentialequations.
- Mechanics* Linear Programing Problems (LPP)
- Interger Programing Problems(IPP)
- Networks problems

- Assignment and transportation problems
- Finite difference
- Interpolation Formula with equal interval
- Interpolation formula with unequal interval
- Central difference interpolationformula
- Numerical Differentiation and integration

COURSE OUTCOME OF MATHEMATICS
SEMESTER – Ist

Core- Course-01 (Advanced Abstract Algebra)

Course code :- MSM 101 Course type ccc.

Learning Outcomes:AfterCompletionof thiscoursethestudentswillbe Ableto thinkaboutthebasic proof, Techniques and Fundamental

definitions related to the advanced abstractalgebra.

They can Demonstrate some of the fundamental theorem by the following.

- **Groups** –Normalandsubnormalseries.Compositionseries, Jordan- Holder theorem, Solvable groups, Nilpotent groups. Direct product, Commutator sub-group of group.
- Modules- Cyclic modules simple modules, semi-simple modules Schuler‘s lemma, Free modules. Quotient module, homomorphism ofmodule.
- Linear Transformations- Algebra of linear transformation characteristic roots, matrices and lineartransformation.
- Canonical Forms- Similarity of linear transformation Invariant subspaces. Reduction to triangular forms, Nilpotent transformation. Index of nilpotency. Invariants of a nilpotent transformations. The primaryDecompositiontheoremJordanblockandJordanforms.
- Smith normal form over a principal ideal domain and rank. Fundamental structure theorem for finitely generated module over a principal ideal domain and its applications to finitelygenerated abelian groups.

COURSE OUTCOME OF MATHEMATICS
SEMESTER – Ist

Core- Course-02 (Real Analysis)

Course code :- MSM 101 Course type ccc.

Learning Outcomes: After Completion of this coursethe students will be Able to think about the basic proof.Techniques andFundamental

definitions related to the real analysis they can demonstrate some of the fundamental Theorems of analysis the student will gradually develop analysis skills in the Riemann- stieltjes integral, Sequences and series of functions, power series, functions of several variables, covered the following.

- TheRiemann-stieltjesIntegral,Definitionandexistenceof Riemann- Stieltjes Integral, Properties of the integral, integration and differentiation, thefundamentaltheoremofcalculus. Integration of Vector-valued functions. Rectifiable curves.
- Sequences and series of functions, point wise and uniform convergence, Cauchy‘s criterion for uniform. Convergence, M-test Tn-test, weiertrass M- test, Abel‘s and Dirichlet‘s for uniform Convergence uniform convergence and continuous uniform convergenceand Riemann- stieltjes integrationuniformconvergence anddifferentiation , weiertrass approximation theorem.
- Power series Radius of convergence series of arbitrary terms, convergence divergence and Oscillation, uniqueness theorem for power series, abel‘s and tauber‘s theorems. Rearangements of terms of a series. Riemann‘s theorem.
- Functions of several variables. Linear transformation Derivative in an open subset of Rn, Chain Rule Partial derivatives , directional derivative, interchange of the order of differentiation, Derivatives of higher orders, taylor‘s theorem Inverse function theorem, implicit function theorem.
- Jacobeanextremum problems with constraints Lagrange‘s multiplier method Differentiation of integrals. Partitions of unity, Differential forms.

COURSE OUTCOME OF MATHEMATICS
SEMESTER – Ist

Core- Course-03 (Topology)

Course code :- MSM 103 Course type ccc.

Learning Outcomes:AfterCompletionof thiscoursethestudentswillbe able to think about the basic proof. Techniques and Fundamental

definitions related to the Topology.

they can demonstrate some of the fundamental Theorems concerned by thefollowing.

- Countable and uncountable sets. Infinite sets and the Axiom of choice. Cardinal numbers and its arithmetic. Schroeder Bernstein theorem, cantor‘s theorem and the continuous hypothesis zorn‘s lemma, well- orderingtheorem.
- Definitionandexamplesoftopologicalspaces.Closedsets.Closuredensesubsets.Neighborhoods Interior, exterior and boundary. Accumulation points and derived sets. Bases and sub-bases, sub spaces and relativetopology.
- Alternate methods of defining a topology in terms of kuratowki closure operator and neighborhood systems. Continuous functions and homeomorphism. First and second spaces. Lindelof‘stheorems. Separablespace, secondcountabilityandseparability.
- Separation axioms- Their characterizations and basic properties

_Urysohn‘slemma‘ Tietze extension theorem.

- Compactness, continuous functions and compact sets basic properties of compactness. Compactness and finite intersection property. Sequentially and countably compact sets. Equivalence of Compactness, countable. Compactness and sequential compactness in metric space. Local compactness and one point compactification, stone-cechcompactification.

COURSE OUTCOME OF MATHEMATICS
SEMESTER – Ist

Core- Course-04 (Advanced Discretemaths)

Course code :-A01 Course typeEcc/CB

Learning Outcomes:AfterCompletionof thiscoursethestudentswillbe Abletothinkaboutthebasic proof. Techniques and Fundamental

definitions related tothe Advanced Discrete mathematics, covered the following.

- Formal logic- Statements Tautologies quantifiers , predicates and validity, propertional logic semigroupmonoids.
- Congruence relation and quotient semigroups, subsemigroups, submonoids, directproducts.
- Lattices:- Lattices on partially Orderd sets their properties algebraic systems sublattices, Bolean algebra.
- Atoms and minterms, BooleanAlgebraand their equivalence mintermsboolean forms sum of products canonical forms minimization of Booleanfunctions.
- Grammers and languages- Phrase- structure grammars. Rewriting rules Derivations, sententionlfroms language generated by a grammer Regular context free and context sensitive grammars and language.

COURSE OUTCOME OF MATHEMATICS
SEMESTER – Ist
Core- Course-05 (Research Methodology and Computer Application Basics)

Course code :- MSM-S01 Course type OSC

Learning Outcomes: AfterCompletion of this area of the course the students will be ableto

- Understand the nature of research .
- To think about the fundamental definition and concept of the following:

a. Tools ofresearch.

b. Sampling.

c. Method of research. IV.Computer fundamentals.

d. Office Software package.

COURSE OUTCOME OF MATHEMATICS
SEMESTER –IInd
Core- Course-05 (Research Methodology and Computer Application Basics)

Course code :- MSM-201 Course type CCC

Learning Outcomes: On the Completion of this course the students will Understandthebasicconcept ofringtheoryandfieldtheoryinadvanced abstract algebra covered by the following.

- Northerian and Artinian rings and modules, Rings Hilbert basis theorem wedderbarnartintheorem Uniform Modules Primary modules noether- laskertheorem.
- Field Theory- Extension fields, algebraic and transcendental extension, separable and inseparable extensions.
- Normal extensions splitting field perfect fields, finite field primitive elementalgebricallyclosed fieldsautomorphimsofextensions.
- Galios field and extensions, fundamental theorem of galios theory. Solution of polynomial equations by radicals.

COURSE OUTCOME OF MATHEMATICS
SEMESTER –IInd
Core- Course-02 (Real Analysis)

Course code :- MSM-202 Course type CCC

Learning Outcomes: After Completion of this course the students will be able to think about the basic proof, Techniques and fundamental definitions related to real analysis. They can demanstrate some of the fundamental theorems of analysis The student will gradually develop analysis skill in measurables sets, measurable function lebesgue integral , Differentiation and integration lebesguelp-spaces covered the following :

- Measurable sets:-Measures and outer measures lebesgueouter measure regularity lebesgue measurable sets, Properties of measurable sest, Borel sets and their measurability non-measurable sets.
- Measurable Functions:- Definition and properties step and characteristic function continuous Function sets of measure zero sequence of function ,Egoroff's theorems riesztheormlebesgue

bounded and dominated convergence theorem.

- Lebesgue Integrallebesgue sum integral of bounded and unbonnded function integral of non-negative bonndedfuctioncomparision of Riemann and lebesgue integral general lebesgue integral.
- Differentiation and integration :-Absotutecontinous function dinniderivatives differentiation of an integral, function of bounded variation, differentiation of an integral, Integral of the derivatives.
- LebesgueLp- Spaces:- The classes Lp convex functions jensens inequality , Holder and minkawskis inequalities, cauchy Schwartz in equality Lp- Banach Space, Rieszfischertheorem.

COURSE OUTCOME OF MATHEMATICS
SEMESTER –IInd
Core- Course-03 (Topology)

Course code :- MSM-203 Course type CCC

Learning Outcomes: After Completion of this course the students will be able to think about the basic proof, Techniques and fundamental definitions related to the Topological space. They can be demonstrate some of the fundamental theorems of topology the student will gradually develop analysis skills covered by the following.

- Connected spaces ,connectedness on the real line, components, Locally Connectedspaces.
- Product spaces, Tychonoff product topology interms of standard sub base and its characterizations projection maps. Connectedness and product spaces. Compactness and product spaces (Tychonofftheorem) Countabilityandproductspaces.
- Embedding and metrization ,embedding lemma and Tychonoff embedding. The urysohnsmetrizations theorem, metrization theorems and paracompactness local finiteness, the nagataSmimovmetrizationtheorem, Paracompactness, the Smirnov meteization theorems.
- Nets and Filter Topology and convergence of nets. Hausdorf space and nets, filters and their Convergence Canonical way of converting nets of filters and vice versa, Ultra filtera and compactness‘.
- The Fundamental group and covering spaces- Homotopy of paths. The fundamental groups, Covering spaces the fundamentalgroups of the circle and the fundamental theorem of algebra.

COURSE OUTCOME OF MATHEMATICS
SEMESTER –IInd
Core- Course-04 (Advanced Discrete Mathematics)

Course code :- MSM-B01 Course type ECC/CB

Learning Outcomes: After Completion of this area of the course the students will be able to think about the basic proof, Techniques and fundamental definitions related to Advanced Discrete Mathematics coveredby me following:

- Graph Theory- Definition of graphs, degree of a verten, Connectivity bipartite graphs, Kirtowskis theorem and its use.
- Trees- Definition spanning trees, minimal spanning trees, Eules theorem on the existence of eulerianpathsanscircuits.
- Computability theory- Finite state machines and their Transition, Table Diagrams, Equivalence of Finite state machines Reduced machines, homomorphisims.
- Finite Automata Acceptors – Non deferministic, finite automata and Equivalence of its power to that of deterministic more and mealy machines,turningmachineandpartialrecursivefunctions.

COURSE OUTCOME OF MATHEMATICS
SEMESTER –IInd
Core- Course-05 (Social Outreach and Skill Development)

Course code :- MSM-S02 Course type OSC

Learning Outcomes: On the completion of this area of the course all the student learned to make project:

1. file on various topics of social outreach and skill development programs .

COURSE OUTCOME OF MATHEMATICS
SEMESTER –IIInd
Core- Course-01 (Integration Theory and Functional Analysis)

Course code :- MSM-301 Course type CCC

Learning Outcomes: After Completion of this course the students will be able to think about the basic proof, Techniques and fundamental definitions related to theIntegration theory and Functional Analysis They can demonstrate some of the fundamental theorem covered by me following:

- Measure theory:- Signed measure Hahn decomposition theorem mutually singular measures, Radon- Nikodym theorem, Lebesgue decomposition, Riesz Representation theorem, Extension theorem.
- Lebesgne- Stieltjes integral product measures regularuity of measures on locally compact spaces.
- Bairesetsbaire measures continuous function regularity of measures on locally compact spaces integrationofcontinuousfunctionswith compact support Rieszmorkoff theorems.
- Functional Analysis- Normed linear space Banach spaces and examples quotient space of normed linear space and its completeness,, equivalent norm. Reisz lemma, basic properties of finitedimensionalnormedlinearspacesandcompactness.
- Weak Convergence and bonded linear transformations normed linear spaces of bonded linear transformations dual spaceswith examples.

COURSE OUTCOME OF MATHEMATICS
SEMESTER –IIInd
Core- Course-02 (Partial Differential Equation and mechanics)

Course code :- MSM-302 Course type CCC

Learning Outcomes: After Completion of this course the students will be ableto Understandderiveand solvedifferenttypesofpartialdifferential equations which may arise in real life Problems:

- Partial Differential Equation:- Examples of PDE. Classification , Transport equation initial value problem. Non- homogeneous equation. Laplace's equation- Fundamental solution, mean values of formulas, Properties of harmonic function, Green's Functions Euler Langerange equation.
- Heat equation :- Fundamental Solution, mean value formula, properties of solutions, Energy methods wave equation – solution by spherical meansnon- homogeneous equations.
- Non- linear first order PDE – Complete integrals envelopes characteristics , Hamultaneous equations{ Calculasof Variations
  ,Hamultaneous PDE Legends Transform, Hopf-Lax Formula weak solutions, uniqueness}, Conservation lows { shocks, Entropy condition, Laxolemik formula, weak solutions, uniqueness, remains problem long timebehavior}
- Gravitations:-Attractionandpotentialofrod,disc,sphericalshells and sphere.
- Surfaceintegral of normal attraction (Application & Gausses theorem) :- Laplace and poission equation work done by self attraction system Distribution for a given potential.

COURSE OUTCOME OF MATHEMATICS
SEMESTER –IIInd
Core- Course-03 (Operation Research)

Course code :- MSM-303 Course type CCC

Learning Outcomes: After Completion of this course the students will be able to formulate the LPP Conceptualize the feasible region solve the LPP usingdifferentmethodsUnderstandtheimportanceof LPP indailylifein detailsthestudentwillbeableto Understandandvisualizethe.

- Operation Research and its scope problem formulation & graphical solution of linear programing problems some properties of convex sets and concave functions, solution of LPP- Simplex method,two phase method.
- SolutionofLPP-Simplexmethod,twophasemethod,bigmethod.
- Dualityinlinearprogramingandsimplexmethodsensitivityanalysis.
- Parametric Linear Programing upper Bound technique,interior point algorithem, linear goal programming.
- Transportation and assignment problems.

COURSE OUTCOME OF MATHEMATICS
SEMESTER –IIInd
Core- Course-04 (Numerical Analysis)

Course code :- MSM-C01 Course type ECC/CB

Learning Outcomes: On completionofthisareaofthecoursethestudent will be ableto

- Understand the nature of calculus of finite differences
- Derive fundamental theorem of difference calculus
- Derive forward difference, backward difference and central diffeneces .
- Derive interpolation formula with equal intervals.
- Derive interpolation formula with uneqnal intervals.
- Derive central diffenece interpolation formula using different method.

COURSE OUTCOME OF MATHEMATICS
SEMESTER –IIInd
Core- Course-05 (Intellectual Property human Rights & Environment Basic)

Course code :- MSM-502 Course type OSC

Learning Outcomes: On completion of this area of the course the student will be able to Understandthe nature of patents and copyrights.To think about the fundamental definition and concept of the following:-

- Patents
- Copyrights
- Rights
- Human rights
- National Human rightscommission
- State human rights commission
- High court
- Regional court
- Right to Environmental as human rights

COURSE OUTCOME OF
MATHEMATICS SEMESTER –
IVth
Core- Course-01(Inegration Theory and Function Analysis)

Course code :- MSM-401 Course type CCC

Learning Outcomes: After Completion of this course the student will be able to think about the basic proof. Techniques and fundamental defination related to the integration theoryandfunctionalanalysis.

They can demonstrate some of the fundamental theorem concerned by thefollowing:-

- Uniform boundedness Theorem and some of its con- Sequences open mapping and closed graphtheorem.
- Hahn- Banachtheoremforthatlinearspaces, Complexlinearspaces and normed linear spaces, Reflexive spaces weak sequential compactness, compact operators. Solvabillity of linear equations in banachspaces The closed Ronge Theorem.
- Inner product spaces, Hilbert spaces Orthonormal sets Bessel‘s inequality completeorthonormal setsandparseval‘sidentitv.
- Structure of Hilbert spaces. Projection theorem, Riesz representation theorem, adjoint of an operator on a hilbert spaces Refiexivity of hilbert spaces.
- Self adjoint operators positive, projection, Normal and unitary operators, Abstract variationalboundry- Value problem the generalized lax-MilgramTheroem.

COURSE OUTCOME OF
MATHEMATICS SEMESTER –
IVth
Core- Course-02 (Partial Differential equation)

Course code :- MSM-402 Course type CCC

Learning Outcomes: After Completion of this course the student will be able to Understand deriveandsolve different typesof partial differential equation which may arise in real life problems.

Partial Differential equation of the first order, lagranges solution.

- Representation of Solutions seperation of variable, Similarity solution (Plane and travelling waves, Solitonssimilary under scaling) Fourier and laplace transform Hopf-Cole Transform hodograph and Legendre transforms, Potential Function.
- Analytical Dynamics:- Generalized Coordinates Holonomic and non- holomomic systems scleronomic and Rheonomic systems. Generalized potential Lagrange‘s equation of first kind. Lagrange‘s equation for second kind. Uniqueness of Solution. Energy equation for Conservative fields Hamilton‘s variables Donkin‘s theorem Hamiltoncanonicalequations.Cycliccoordinates.Routh‘sequation.
- Analytical Dynamics:- Hamilton‘s Principle of least action motivating problems of calulus of variation shortest distance. Minimum surface of revolution Brachistochrom problem. Isoperimetric problem, Geodesic Fundamental lemma of calculus of variations Euler‘s equation for one dependent function and its generalization to (i) ―n‖ dependent function (ii)Higher order dirivatives conditional extremum under geometric constraints and under integral constraints.
- Analytical Dynamics:- Poisson‘s Bracket . Poisson‖ identity Jacobi possion theorem lagrange brackets Condition of canonical character of a transformation in terms of lagrange brackets and poisson brackets- Invariance of lagrangebrackets and poisson

bracketsunder canonical transtormations.

- Classical Mechanics:- Genneralized coordinates Langrange‘s equations hamilton‘s canonical equation‘s hamilton‘s principle and principle of least action two dimentional motion of rigid bodies, Euler‘s dynamical equation for the motion bodies, Euler‘s dynamical equation for the motion of a rigid body about axis theory of small oscillations.

COURSE OUTCOME OF
MATHEMATICS SEMESTER –
IVth
Core- Course-03 (Operation Research)

Course code :- MSM-403 Course type CCC

Learning Outcomes: After Completion of this course the student will be able to Formulatethedynamicprogramingsolvethenetworkproblems usingdifferentmethodsthe studentwillbeabletounderstandvisualize the.

- Network Analysis:- Shortest path problem, Minimum spanning tree problem, maximum flow problem, minimum cost flow problem network simplex method project planning and control with PERT- CPM
- Dynamic Programing :- Deterministic and probabilistic Dynamic programm
- GameTheory:-TwoPerson,ZerosumGame,Gameswithmixed strategies GraphicalSolution,Solutionbylinearprograming.
- Integer Programing:- Branch and Bond techniques Gamory‘s method of solving I.P.P.

COURSE OUTCOME OF
MATHEMATICS SEMESTER –
IVth
Core- Course-04 (Numerical Analysis)

Course code :- MSM-D01 Course type ECC/CB

Learning Outcomes: After Completion of this course the student will be able to apply numerical methods to obtain approximate solutions to various mathematical problems. Thestudentwillgetonoverallidiaof

- Difference Equations –I:- Homogeneous linear Difference equations Homogeneous linear difference equation with constant coefficiants existence and uniqueness theorem, Different methods for finding for particular solution in case of non-homogeneouslinearequation.
- Difference Equation II :- Methodes of variation of parameters, method of generating function, Non- Homogeneous linear difference equations with variable coefficients, solution of some special types of difference equations, solution of homogeneous difference equations (degree two) simultaneous difference equations, Differential differenceequations.
- Numerical solution of ordinary Differantial Equation of frrstorder :- Picard‘s method of successive approximations euler‘s method, improved euler‘s method, modified euler‘s method,toylor‘s series method runge – Method,Runge‘skutta method.
- Solution Of algebraic and Transcendental Equation :-Biscetion method.Method for finding initial approximiate value of root newton‘s iterative formula for obtaining square root, Rate of convergence of newton‘smethod.

- Simultaneous Linear Algebraic Equations :- The elimination method by gauss Jordan‘s method, crout‘s method , Method of factorization Jacobi iterative method. Gauss Seilder iterative Method, Relxation Method due tosouthwell.

COURSE OUTCOME OF
MATHEMATICS SEMESTER –
IVth
Core- Course-05(Dissertation)

Course code :- MSM-421 Course type OSC

Learning Outcomes: On the Completion of this area of the course

- All the Students learned to make dissertation file on various topics of mathematics.

BA POLITICAL SCIENCE

BA PART ONE		
Paper	**Course Title**	**Code**
I	**Political theory**	
II	**Indian Government and Politics**	
BA PART TWO		
Paper	**Course Title**	**Code**
I	**Political thought**	
II	**Comparative Government and Politics**	
BA PART THREE		
Paper	**Course Title**	**Code**
I	**International Politics and Foreign policy of India**	
II	**Public Administration.**	

Programme Specific Outcome

1. Develop an understanding of the nature and developments in national and international politics
2. Critical evaluation of social, economic and political variables for a proper understanding of the plurality of Indian society
3. Building overall consciousness regarding national political history, international relations and present Indian & Western political thinkers
4. Exposed to comprehensive, comparative understanding of specific world constitutions such as United Kingdom, America, China, Russia and Switzerland
5. Developing knowledge of administrative studies with special reference to Indian administrative structures and practices
6. Examining India‘s foreign relations with her neighbours and great powers

BA PART ONE

Paper I Political theory

Learning Outcomes: After completion of the course:

1. Students will be able to learn key Concepts needed to understand the political phenomenon.
2. They will come to know about the role and functions of political theory
3. They will be able to describe the theories of the origin of how liberal and Marxist traditions look at and understand politics,

4. They will be able to explain the concepts of sovereignty, rights, duties, liberty, equality and democracy; and how these elements operate in society and politics.
5. They will be able to explain the different kinds of Government and the theories of power.
6. They will come to understand and explain the concept of Welfare State. They will also become familiar with party system, pressure groups and the ideas of social change,

Paper II Indian Government and Politics

Learning Outcomes:

Having completed the course, the learners would be able to

1. Explain the core philosophy and ideals of the Indian National Movement.
2. Get familiarized with the Constitution of India and know about the fundamental rights and how these rights are different from the directive principles of the state policy.
3. Explain the structures, powers, and functions of three organs of government, Union Executive, Union Legislature and their mutual relationship and engagements.
4. Describe the structures of Union Judiciary and State Executive and the roles and responsibilities of the constitutional heads at different levels.
5. Explain the constitutional structures of government that work at the union and state levels in India.

BA PART TWO

Paper I Political thought

Learning Outcomes:

After the completion of this course, the students will be able to:

1. Comprehend and recall the key ideas of all the political philosophers given in the course.
2. Explain the political thoughts according to Plato and Aristotle and how their thoughts were linked to the political development.
3. Answer how Aristotle differed from his master Plato on the conception of justice.
4. Make a distinction among Hobbes, Locke, and Rousseau on the nature of state, the law of nature, nature and form of contract and the emergence of state from the contract.
5. Answer how and why Machiavelli gave an overriding priority to pragmatism above ethics and values in operation of statecraft.
6. Analytically describe the ideas of Idealism, Individualism, Liberalism, Socialism and Fascism.

7. Develop a tendency of research study on the works of ancient Indian Political thinkers as well as the modern Indian Political thinkers.

Paper II Comparative Government and Politics

Course Outcomes:

After the completion of this course, the students will be able to:

1. Enumerate and explain the salient features of British Constitution.
2. Get acquainted to the main features of the Constitution of the United States of America
3. Describe the key characteristics if the Swiss Constitution.
4. Develop essential understandings on the key elements of Chinese Constitution.
5. Critically analyze the meaning and definition of Comparative Politics.
6. Demonstrate a proficient skill in analyzing and evaluating various theories and approaches to Comparative Politics and political developments

BA PART THREE

Paper I: International Politics and Foreign policy of India

After completion of the course the students will be

1. Have a comprehensive understanding of the necessity of International Politics as a discipline.
2. Describe in details and evaluate the various theories of International Politics.
3. Appreciate the salient features of India's foreign policy and explain the determining factors and elements.
4. Elaborate how, why and to what extent India's foreign policy has changed in the new global and regional contexts.
5. Evaluate India's relations with her South Asian neighbors as well as with the major super powers.
6. Enumerate and analyse various prominent issues affecting the lnternational Politics.

Paper II Public Administration.

Course Outcomes:
After the completion of this course, the students will be able

1. Comprehend the meaning and definition of Public Administration and distinguish public administration from private administration.
2. Critically explain the principles of Organisation.

3. Explain how the organization has been understood by different schools and how all these reinforce the overall understanding of the organization.
4. Examine nature, issues and characteristics of development Administration in the light of Riggs model of public participation.
5. Understand the concept of budget vis-å-vis necessity of budget making in public Administration. Describe the steps involved in budget making process.
6. Critically evaluate various issues of corruption in administration.

MA POLITICAL SCIENCE

PROGRAM OUTCOMES POLITICAL SCIENCE

- **Understanding National and International Political systems**

It makes to understand the inter-connection between local, state, national and international politics.

- **Leadership Qualities**

Ability to become efficient leaders

- **Critical thinking:**

The ability to analyse and predict socio political phenomena based on the study of existing socio economic determinants and past experiences.

- **Effective citizenship:**

The course curriculum inculcates among students a basic understanding of the Fundamental rights and Fundamental duties of citizens and thereby to act as responsible citizens.

- **Career Options**
  - **Academician:-**Students will get a wide scope for pursuing an academic career in India by becoming lectures and professors.
  - **Public Administrator:-¬** political science post graduate with his knowledge can be a Public Administrator and play an important role in decision – making and implementation of policies.
  - **Political Consultant:-¬** they can work as Political Consultants in election campaigns for political candidates.
  - **Political Content Writer:-¬** Political Science post gradates can also become political content writer
  - **Other Important Carrier Options:-¬** Political Correspondent• Subject Matter Expert• Manager• Competitive• Examinations(Net/Set, MPPSC/UPSC)

SEMESTER I

Course Code	Course Type	Course Title
MAP 101	**CCC**	**Debates in Political Theory**

Core Paper : Debates in Political Theory

Learning Outcomes: After completion of the course .-

a. The students would be able to define various political theories, different approaches to politics and build their own understanding of politics.
b. They will be able to describe the interplay between ideology and political powers, in relation to the State and Nation.
c. They will be able to analyse the power structure operational between nation and state.
d. They will be able to explain the concept of liberty/freedom with regard to the development of a nation/state.

e. Students would be able to define the principles of Rights, Peace, Justice and Equality corresponding to the political theory discussions.

f. The students will be able to define the meaning and characteristics of revolution and social change in the background of Nationalism,
Imperialism and Neo-Imperialism.

Course Code	Course Type	Course Title
MAP 102	**CCC**	**Comparative Political Analysis**

Core Paper :Comparative Political Analysis

Learning Outcomes:

Having completed the course, the learners would be able to -

a. Familiarize themselves with the debates on key concepts and theoretical perspectives in comparative politics and comprehend the meaning and evolution of Comparative Politics along with various traditional approaches to study the same.
b. Develop an understanding of the concept of constitutionalism along with various forms of government and use modern approaches to compare various political systems.
c. Compare and assess different organs of the government and types of political systems operative across various countries.
d. Compare and critically analyse the role of political elites, political parties and pressure groups in different political systems.
e. Develop a thorough understanding of the electoral systems and processes prevalent in different countries across the world.
f. Learn to use the comparative method to analyse why and how political institutions, processes, regimes, and ideologies change over time and across regions
g. Develop a thorough understanding on how to study politics comparatively, that is, understand similarities and differences in political experiences.

Course Code	Course Type	Course Title
MAP 103	**CCC**	**Indian Government and politics**

Core Paper : Indian Government and politics

Learning Outcomes:

After the completion of this course, the students will be able to:

a. Comprehend and recall the historical dimensions of Indian Political culture, the values and legacies and social dimensions of Indian Political System.

b. Have an in-depth knowledge of State politics of Chhattisgarh; appointments, powers and constitutional positions of the heads of State.

c. Describe the changing nature of class dominance in political representation in relation to language, region, religion, caste, tribe and gender.

d. Critically analyse the impact of racial, linguistic and regional factors on Indian Political System.

e. Evaluate the development process and the role of political parties in Indiaas well as in Chhattisgarh.

f. Analytically describe the structure, roles and powers of the Election Commission and the electoral process in India .

g. Develop a tendency of research study in the fields of electoral reforms, factors influencing the electoral behaviour and emerging trends in Centre-State Relations.

Course Code	Course Type	Course Title
MAP S01	**OSC**	**Research Methodology and Computer Application. Basics**

Optional Paper : Research Methodology and Computer Application Basics

Learning Outcomes:

After the completion of this course, the students will be able to:

a. Understand and explain the meaning, concept, nature, types and stepsof social research along with various approaches.

b. Enumerate and explain the types of data and methods of data collection, concept of model, paradigm and theory

c. Grasp and describe various methods used in carrying out research.

d. Examine and assess the building blocks of research viz. hypothesis, concepts and variables.

e. Identify the research problem and formulation of various types of research designs.

f. Analyse the secondary data and the use of statistics in research work.

g. Develop the basic computing skills to present data and write a researchreport, paper and thesis.

Course Code	Course Type	Course Title
MAP A03	**ECC/CB**	**Contemporary Debates in Political Theory**

Elective Paper : Contemporary Debates in Political Theory.

Course Outcomes:

After the completion of this course, the learners will be able to:

a. Develop a clear-cut understanding on various concepts, Ideologies and debates in Political Theory.
b. Comprehend the relevance of contemporary theories like — Liberalism, Socialism, Marxism, and Neo-Marxism.
c. Understand the theories of Liberty, Equality, Justice and Democracy.
d. Understand the meaning and significance of Political Theory and interpretations of the classical tradition of Environmentalism,Multiculturalism and Fascism.
e. Acquire a deeper understanding on the theories of Social Change expounded by Lenin, Mao Zedong and Gandhi.
f. Develop a profound understanding on concepts of Modernism and Post-Modernism movements and comprehend the various perspectives of Ideologies in Political theory.

SEMESTER II

Course Code	Course Type	Course Title
MAP 201	**CCC**	**Administrative Theory**

Core Paper : Administrative Theory.

Course Outcomes:

After the completion of this course , the students will be able to:

a. Understand the basics and the evolution of Public Administration.
b. Comprehend various approaches to the study of Public Administration and theories, types and of Organization.
c. Comprehend the role of Executive, Judiciary and Legislature in Public Administration vis-å-vis Good Governance.
d. Comprehend the basic theories, issues of Bureaucracy and the importance of Personnel Administration.
e. Understand the core elements of Financial Administration, like Budgeting and Finance Allocation.
f. Analyse the concept of good governance, e-governance and reformsin administration.

g. Understand the role of Ombudsman, like -Lokpal, Lokaukta, and pressure groups in curbing Corruption in Public Administartion.

Course Code	Course Type	Course Title
MAP 202	**CCC**	**Themes in Indian Political Thought**

Core Paper : Themes in Indian Political Thought.

Course Outcomes:

After the completion of this course, the students will be able to:

a. Articulate the ideas of various Indian political thinkers whose works form the core of Indian Political Philosophy.
b. Have an in-depth knowledge and understanding of Indian Political thinkers like Manu and Gandhi.
c. Develop a comparative understanding of various social forms of Community, like — Janapada, Sangha, Jati, Qaum, Samaj.
d. Identify and describe the key ideas of Shramanic, Syncretist, Reformist, and Socialist.
e. Develop an understanding of the ideas of Modern Indian Political thinkers.
f. Critically analyse the rise and development of Cultural and Religious Nationalism in India.

Course Code	Course Type	Course Title
MAP 203	**CCC**	**Western Political Thought**

Core Paper : Western Political Thought

Course Outcomes:

After the completion of this course, the students will be able to:

a. Comprehend and recall the key ideas of all the political philosophers given in the course
b. Explain the political thoughts according to Plato and Aristotle and how their thoughts were linked to the political development
c. How Aristotle differed from his master Plato on the conception of Justice
d. Make a distinction among Hobbes Locke‘s and Rousseau on their nature of State the Law of Nature in form of contract and the emergence of state from the contract
e. How and why Machiavelli gave an overriding priority to Pragmatism above ethics and value in Operation of statecraft

f. Analytically describe the ideas of idealism, individualism, Liberalism, and socialism, and Facism

Course Code	Course Type	Course Title
MAP 221	**PRJ OSC**	**Social Outreach**

Skill Enhancement Paper: Social Outreach and Skill Development

Course Outcomes:

After the completion of this course, the students will be able to:

a. Apply and use functional and purpose oriented Hindi in their day-to-day lifeand activities.
b. Get acquainted to the existing socio-cultural environment, in which theyare living and working.
c. Scientifically prepare project papers and reports on social outreach programmes on the relevant subjects.
d. Develop essential skills in computer work, research work and project writing.
e. Critically analyse their own socio-political and economic situations and propose alternatives for improvement.
f. Demonstrate a proficient skill in speaking, reading and writing purposeful and practical Hindi.

Course Code	Course Type	Course Title
MAP B02	**CCC**	**Social Movements and Revolutions.**

Elective Paper : Social Movements and Revolutions.

Learning Outcomes:

After completion of the course the students will be able to —

a. Elucidate the definition, features, and ideologies of Social Movements.
b. Explain various socio-political contexts as well as ideological bases of Social Movements.
c. Describe the types and phases of Social Movements.
d. Interpret various factors influencing some major Revolutions and LiberationStruggles in Asia, Africa and Latin America.

e. Identify various movements initiated by Peasants, Women, Environmentalists and Ethnic groups.

f. Explain how the Social Movements operated and influenced the society and politics at large.

g. Analyse the changing nature of Social Movements in India.

SEMESTER III

Course Code	Course Type	Course Title
MAP 301	**CCC**	**Democracy and Political Institutions in India**

Core Paper : Democracy and Political Institutions in India.

Course Outcomes:

After the completion of this course, the students will be able to:

CO1. Understand the structures of Indian Democracy with the help of different democratic theories and democratic thinking in India before and after independence.

CO2. Comprehend the functioning of the governmental institutions in India, with their legislative, executive and judicial roles and the underlying interrelationship between them.

CO3. Critically evaluate the Federal structure, namely — the State — Union relationship.

CO4. Highlight the challenges arising in Indian democracy due to caste, class, language, religious and regional diversities.

CO5. Develop an understanding of grassroots politics and the role of social movements in Indian democracy.

CO6. Demonstrate a clear and critical understanding of the Decentralization approach through Local Self-Governance.

CO7. Manifest a political sense of responsibility to uphold the Human Rights and Dignity of the citizens by orientating them to the various

a. Constitutional Commissions.

Course Code	Course Type	Course Title
MAP 302	**CCC**	**Parties, Elections and Political Process in India**

Core Paper :Parties, Elections and Political Process in India.

Course Outcomes:

After the completion ofthis course, the students will be able to demonstrate:-

CO1. A comprehensive understanding of the historical, socio-political and economic background of the political parties in India.

CO2. An ability to critically analyse the social framework in relation to political system in India.

CO3. A deeper understanding of social asymmetries and their impact on politics in India.

CO4. An in-depth knowledge of the concepts of Regional Political Culture and Political Socialization in Indian Context.

CO5. A clear understanding on the social and regional differentiation and their linkage with democratic elections in India.

CO6. A research tendency to assess the role of Non-Party movements, such as NGOs, Pressure Groups and Common Interest Groups in

a. Society and Politics of India.

Course Code	Course Type	Course Title
MAP 303	**CCC**	**INDIAN POLITICAL THOUGHT**

Course Outcome

After completion of the course students will :

CO1. understand the rise of various ideas in the Mahabharat Period

CO2. be exposed to understand Renaissance and new thoughts in ideology in India

CO3. Be familiarized with the rise of Political Socio-religious reforms in India

CO4. Learn about the thoughts of Lohia, Jaiprakash, Nehru in the context of Freedom Movement

CO5. Understand Political-socio thoughts of Ambedkar Jyotiba Phule and sawarkar

CO6. Be able to analyse the thoughts of Mahatma Gandhi and Deendayal Upadhyay

Course Code	Course Type	Course Title
MAP S02	**CCC**	**Intellectual Property Rights, Human Rights and Environment : Basics**

Intellectual Property Rights, Human Rights and Environment Basics.

Course Outcomes:

After the completion of this course, the students will be able to demonstrate:-

CO1. A thorough understanding on the topics of Intellectual Property Rights (IPR),

CO2. Patent Laws and Rights, offence and penalties related to IPR.

CO3. A comprehensive knowledge on the Copyright Acts and Rules, registration and subject matters under copyrights rules and the area of jurisdiction to deal with the violating acts.

CO4. An in-depth knowledge on the Rights of individuals and groups related to Life, Liberty, Equality and Justice.

CO5. A clear understanding on the functioning of various National and International Agencies / Commissions operating to uphold Rights of people.

CO6. A tendency to carry out further study and research on the emerging environmental issues at the local, regional or national level.

CO7. An interest for promoting sustainable development in conformity with environmental safety and humanitarian approach.

Course Code	Course Type	Course Title
MAP C02	**ECC/CB**	**Democracy and Human Rights in India**

Elective Paper : Democracy and Human Rights in India.

Course Outcomes:

After completion of this course, the student would be able to :-

CO1. Have a complete concept clarification on the Human Rights issues corresponding to the western as well as third world countries.

CO2. Sketch out the Constitutional, legal and policy Framework in India to address the Human Rights Issues after the independence.

CO3. Categorize and describe various issues and challenges affecting the lives ofvarious sections of the society.

CO4. Critically examine violations of human rights taking place around the globe, and particularly in India.

CO5. Get involved with the media, civil societies, human rights groups

SEMESTER IV

Course Code	Course Type	Course Title
MAP 401	**CCC**	**PRINCIPAL OF INTERNATIONAL POLITICS**

Core paper PRINCIPAL OF INTERNATIONAL POLITICS

Course Outcomes:

After the completion of this course, the students will be able to:

a. Comprehend the historical and traditional background. behind the emergence and evolution of the theories of International Relations.
b. Understand the changing nature of global order, the emergence of contemporary world order and have an in-depth knowledge of the discipline.
c. Equip themselves to generate their own ideas and ability to critically examine the important, issues shaping and posing challenges to the international relations today.
d. Develop the skill to analyse the political debates related to global environment like — structural realism, modernism, nationalism, ethnicity and neo-imperialism.
e. Have a well-grounded understanding of the problems of international relations.
f. Critically evaluate various approaches to build up international relations in the face of neo-liberalism, feminism and a comparative analysis of different international organizations.

Course Code	Course Type	Course Title
MAP 402	**CCC**	**India and the World.**

Elective Paper : India and the World.

Learning outcomes:

After completion of this course, the student would demonstrate:-

a. A clarity of concept on historical development, principles and objectives of India's foreign policy and how it is shaped by domestic and external determinants.

b. An awareness and knowledge about institutions involved in the making of foreign policy of India and also an understanding of the intricacies of making of India's foreign policy.

c. A critical analysis on the changes and continuities in relation of India with major powers of the world.

d. A deeper understanding on the economic dimension of foreign policy of India and critically analyse the monetary sources of economic growth from other countries.

e. A deeper understanding on India's engagement with its neighbours of Asian Region.

f. Awareness on the implications of relations of India with different regions and global and regional organizations such as UN, EU, SAARC, ASEAN, OPEC, NAM etc.

Course Code	Course Type	Course Title
MAP 403	**CCC**	**POLITICAL HISTORY OF CHHATTISGARH**

POLITICAL HISTORY OF CHHATTISGARH

Course outcome

After completion of this course, the student will be able to understand:-

1. the political history and role in freedom struggle of chhattisgarh
2. Historical geographical and cultural background of chhattisgarh
3. Role of Chhattisgarh in India‘s freedom struggle
4. Thinkers in Chhattisgarh Pandit Ravishanker Shukla, Pt.Sunderlal Sharma, Swami Atmanand
5. Tribal and monarchy Culture in Chhatisgarh with special reference to Ancient Political Institution

Course Code	Course Type	Course Title
MAP 421	**SSC**	**DISSERTATION**

Skill Enhancement / Project Paper : Dissertation on a relevant topic

Learning Outcomes:

In the dissertation, the student will be able to present:-

a. A curiosity and keen interest for seeking necessary advice and guidancefrom the Dissertation Guide/Supervisor.

b. A logical thinking and writing skills based on the scientific research method.

c. A systematic approach and practical application of the Research Methodology studied in the first semester.

d. A critical analytical skill on any relevant topic.

e. An application of data analysis skill along with basic computer application skill.

A neat and clear dissertation with 80-100 pages, hardbound or spiral bound in three copies

Course Code	Course Type	Course Title
MAP D03	**ECC/ CB**	**INTERNATIONAL SECURITY**

Core Paper : International Security.

Learning Outcomes:

After completion of the course, the student will be able to:-

b. Demonstrate a comprehensive understanding and knowledge of International Security.

c. Understand the theoretical approaches to International Security and critically evaluate the changing nature and the emergence of contemporary world order while having an in-depth knowledge of the security problems of the third world countries.

d. Equip themselves to generate their own ideas and ability to critically examine the crucial security issues and challenges posing threats to the world.

e. Demonstrate research tendency to go for innovative study in the field of international Security.

f. Have well-grounded understanding on the concepts of Regionalism and Integration and to comparatively analyse different regional and trans regional security issues.

g. Develop a political sense of responsibility to stand against unjust human tendencies posing security threats either locally or globally

B.A Part one (Psychology) Paper 1

Basic psychological process

After completing the course the students will able to demonstrate

CO1- a comprehensive understand of goals perspective and methods of psychology.

CO2- developing familiarity with the basic concept of foundational study of process like, learning, sensation, perception, attention, thinking, and memory.

CO3- It will help the student understand and explore the biological basis of experience and it will help in developing an understanding of the influence of behaviour, cognition and environment on the bodily system.

CO4- to develop an understand of the concept of individual differences To

acquaint the learner with the complexities of personality

Understand the various approaches to intelligence and appreciation of the diverse framework

To know the process and principles of motivation and emotion and appreciating the framework

Paper 2

Psychopathology

After completing the course the students will able to demonstrate

CO1- a comprehensive knowledge of understanding the concept of normality and abnormality. Make students understand the nature and course of various abnormal conditions.

CO2- developing familiarity to understand the assessment of psychopathology with the help of diagnostic tests, rating scales, clinical interview, projective tests.

CO3- To understand various psychological disorders through latest editions of DSM-IV and ICD-10.

CO4 a research tendency to go for innovation studies for the treatment of mental disorders.

BA part two

Paper one

Social Psychology

After completing the course the students will able to demonstrate

CO1-Develop insight and analyze the contribution of social psychologists to the understanding of human society.

CO2- familiarizing with the concept of social perception including impression formation, pro-social behaviour, cooperation and helping behaviour

CO3- Develop a research tendency to go for innovative studies for stereotype and prejudice attitudes and interpersonal attraction affects society.

CO4- Developing understanding of group structure and function, group norms, leadership.

CO5-understanding the application of social Psychology. To social issues like aggression, mob behaviour, gender discrimination, child labour and population explosion.

Paper-2 (Psychological assessment)

After completing the course the students will able to demonstrate

CO1-a comprehensive knowledge of understanding basic principles of psychological assessment and its various dimensions.

CO2-analize and apply the understanding of psychological testing. Recognize the various the various types of psychological tests.

CO3-Develop knowledge about the steps in test construction and test standardization. Developing knowledge of ethical and legal issues involve in test construction related to reliability and validity of test.

CO4-Abity to develop. cognitive and non cognitive tests Acquiring knowledge to effectively evaluate the appropriate and quality of Psychological test and their Psychometric strength and weakness

CO5-Developing knowledge about the application of tests in various applied aspects of life like education, occupation, organization social and health.

B.A.Part-3 Paper-1 (Psychological statistics)

After completing the course the students will able to demonstrate

CO1- a comprehensive knowledge of understanding the nature of measurement of variables.

CO2- developing skills to use quantitative techniques such as measured of central tendency.

CO3- knowing how to use normal probability curve as model in scientific use. CO4-

grasping concepts relate to hypothesis testing

CO5- knowing basic techniques of descriptive and inferential statics. Developing ability to understand. The use of statistics in research purposes.

Paper-02 Human development (A)

After completing the course the students will able to demonstrate

CO1- a comprehensive knowledge of understanding and distinguish major theoretical perspective and methodological approach in human development.

CO2-A critical understanding of the ecological and cognitive factors in human development

CO3-Developing an ability to understand the emergence of self and identity and morality

CO4-understanding the contributions of socio cultural context towards shaping human development, like role of family, peers, school, marriage and occupation.

CO5-Acauring an ability to describe key development challenges and issues face in aging.

Paper2 Environmental Psychology (B)

After completing the course the students will able to demonstrate

CO1-a comprehensive knowledge of understanding the human nature and environment. Valuing environmental ethics from values about nature in ancient Indian systems.

CO2-a critical understanding of effect of environment on human behaviour

CO3-a critical inclination for pro social and pro environmental behaviour, ecosystems and acculturation and psychological adaption.

CO4-Developing ability to understand environmental assessment trough naturalistic observation and field surveys. Ability to creating environmental awareness like social movements,Chipko,narmdabachao, aandolan.

CO5-a sense of developing application of psychology in man environment fit. In education, industry, health, and in social fields. Develop an ability to understand environment effects in behaviour and it‘s awareness in physical, mental, spiritual development of human existence

After proper Completion of B.Sc.I (Physics)

1. Student are able to differential different types of motion eglinear, circular/ rotational, simple harmonic motion etc& know their usefulnessindifferent cases.
2. Students are able to differential the physical quantities of the physical entities.
3. Students are able to differentials D C and A C and know how to apply specially A.C. it different necessities
4. Students know different electrical and magnetic behavior of matter.
5. Students know cause and nature of magnetic field and their usefulness in differentmachine etc.

After proper completion of B.Sc.II(Physics)

1. Students are in a position how heat energy is converted into mechanical work.
2. Students understand heat engine and its different types.
3. Students are well knowe abut block body radiation, which in basic for Quantum physics to be studied in higher classes .
4. Students are well knowabout the transport of matter and energy through waves.
5. Students are familiar will different opticalinstruments generally used in space physics.
6. Students know LASER, its constructions and uses.

After proper Completion of B.Sc.III (Physics)

1. Students are well known about fundamentals of quantummechanics which gives specific toots to understand physics in higher education.
2. Students came across variousspectra e.g. vibrational and rotational.
3. Students know fundamentals of nuclear physics which is essential few higher educations.
4. Students have understood various electrical devices semi-conductordevices useful is daily life.
5. Students also camel through different digital circuits useful in different Electrical and semi- conductor devices.
6. Students get motivated for higher education in physics.

B.A. Sociology
Programme Outcome

Upon successful completion of the program the graduate students would be able to :-

1. Understand basic concepts and theoretical perspectives in Sociology and hoe they are used in sociological explanation of social behavior.
2. Understand to collect, analyze and interpret empirical evidence in sociological research.
3. Gain Familiarity with and develop an understanding of core substantive areas of sociological inquiry.
4. Express sociological ideas clearly and coherently both in writing and in oral presentations.

BA, Part one, Sociology
Paper – 1st Course Outcomes – Introduction to sociology

By studying this paper , student will be able to gain knowledge and perform best :-

1. Understanding about meaning, nature, scope, society, community, matter and significance.
2. knowledge about marriage, family and kinship, culture and Socialization.
3. Understanding about Social stratification, social mobility – meaning, forms and theories.
4. knowledge about meaning and pattern, types factors evolution and progress.
5. Understanding about social system - meaning characteristics and elements. `

(Paper 2nd) Course outcome – contemporary Indian society

1. Understanding about verna, ashram, karma, dharma, and Purusharth.
2. knowledge about the structure and composition of Indian society structure; village, town, cities and rural. Composition : tribes, Dalits,women and minorities.
3. Understanding about basic institution of Indian society – caste system, joint family, marriage and changing dimensions.
4. Knowledge about familial problems -dowry, domestic violence, divorce, intra-intergenerational conflict, problem of elderly.
5. Understanding about surrogate motherhood, live in relationship, regionalism, communalism, corruption, youth unrest.

BA, Part Two
PAPER -1st Course outcomes- sociology of tribal society

By studying this Paper student will be able to gain knowledge and perform best :-

1. Understanding about tribes concept, characteristics, tribes and schedule, distinction between tribe and cast.
2. knowledge about classification of tribal people -food gatherers and hunter, shifting cultivate, nomads, peasant settled agriculturists andartisans.

3. Understanding about socio-cultural profile: kinship, marriage, family, religion and belief cultural tradition.
4. knowledge about tribal sensitization : tribal mobility, scheme of tribal development, various tribal movements.
5. Understanding about problem of tribal people: poverty, illiteracy,

indebtedness, agrarian issue, exploitation study of tribal communication. `

(Paper 2nd) Course Outcomes – crime and society

1. **U**nderstanding about concept of crime: meaning, characteristics and ype.
2. knowledge about structure of crime: anomic, criminality and suicide, organized crime, white collar crime and cyber crime.
3. understanding about social evils and crime: alcoholism, drug addiction, dowry and beggary.
4. knowledge about punishment: meaning, characteristics, objective and type.
5. Understanding about correctional process; role of police and judiciary in India, development of jail reform in India and modern correctional concept probation, parole and after care Program.

BA, Part Third PAPER 1ST
Course outcome – foundation of sociological thought

By studying this Paper student will be able to gain knowledge and perform best:-

1. Understanding about the law of three stage , positivism ,hierarchy, of science .
2. knowledge about karlmarx -dialectic materialism, class struggle and surplus value. max weber – bureaucracy, authority and the protestant ethic and the spirit of capitalism.
3. Understanding about circulation of Elis and logical and nonlogical action.
4. knowledge about the theory of leisure class, of social change.
5. Understanding about mahatma Gandhi – Ahisma, SatyaGraha and trusteeship. RadhaKaram Mukherjee – the concept of value. `

METHODS OF SOCIAL RESEARCH,
Paper -2nd

1. Understanding about meaning characteristics and significance. Scientific methods , hypothesis.
2. knowledge about ethnography observation, case study, content analysis.
3. Understanding about exploratory, descriptive, explanatory, experimental , and diagnostic.
4. knowledge about social survey , sampling ,questionnaire, interview –schedule and interview – guide.
5. Understanding about meaning importance and limitations.

Department of Sociology
Programme outcomes
Name of Program: - M.A. in Sociology

After completion of MA in Sociology a student will develop:

1. Understand the structure of society, social institutions, marriage system, family and religion.
2. Learn about research methodology.
3. Knowledge about Western and Indian social thinkers.
4. Acquire deeper insight into social demography, social health and socia problems in Indian society.
5. Study of social pathology and problems.
6. Career options in non govt.- organization Women and Social welfare, Health dept.
7. Outcomes of research work conveyed to the state government as development policies.

M.A. (Sociology) Semester-I
Course Outcome
Paper-1 Classical Sociological Tradition (Compulsory)

1. Students will aware with foundational process for emergence of Sociology.
2. They will equip with critical, logical and analytical thinking to understand complex social phenomenon.i.e. karlmarx, Emile Durkheim , Max Weber, Vilfredo Pareto.
3. Enabling students to link theories and cross cutting issues.

Paper-2Social Anthropology

1. After completion of this paper student have knowledge of basic Anthropology.
2. After completion of this paper student have knowledge of problem and issues arising out of the impact of modernization, industrialization, anizationApplication of anthropological knowledge.
3. Knowledge of planning and development programmers.

Paper -3 Social Change in India.

1. To give a basic understanding of conceptual and theoretical frame work of social change.
2. To give a basic understanding factors of social change
3. To give a basic understanding of trends and processes of change in modern India
4. To give a basic understanding change in urban and industrial India

Paper -4 Research Methodology and basic computer application

1. Understand and Explain The meaning, Concept, nature Types and steps of social research along with various approaches.
2. Enumerate and Explain the types of data and methods of data collection, concept of model paradigm and theory.
3. A Research tendency to go for innovative studies for students how to work data entry, Data Analysis Tabulation and graphics and Presentation also.
4. A descriptive intelligence of computer system, its Feature, Basic application of computer and Generation of computer.
5. A critical Understanding of the key concepts of CPU, Hardware, Software, muse ,key board, Scanner, Barcode, Moniter, Printer, Primary memory and secondary memory also.

Paper-5 Urban sociology

1. To give a basic understanding origin andscope of urban sociology and concept of urban locality.
2. To give a basic understanding of urban ecology.
3. To give a basic understanding growth and types of cities.
4. To give a basic understanding of urban problems and crimes.
5. To give a basic understanding of town planning and forms of town planning

M.A. (Sociology) Semester-II

Course Outcome

Paper 1 Classical Sociological Thinkers

1. Students will aware with Sociological Thinkers i.e. Augustecomte_scontribution to the subject matter of sociology.
2. Students will aware with Emile Durkheim‘s sociological theory.
3. Students will aware with Marxism.
4. Students will aware with Max Weber‘ sociological theory.

Paper 2 Quantitative Research techniques in Sociology

1. To give a basic understandingof Research techniques i. e. sampling,Quantitative method and survey method.
2. To give a basic understanding of measurement and scaling techniques.
3. To give a basic understanding of statistics in social research

Paper -3 Theoretical perspectives In sociology

1. Students will aware with nature of sociological theory levels of theory and relationship between theory and research.
2. The idea of social structure :A R RadcliffeBrown, the problem of role analysis S F Nadle, functional dimension of social system T Parson Neofunctionalism J Alexander.
3. Knowledge of conflict theory KarlMarx,RDahrendort, L Coser R Collins.
4. Knowledge of structuralism Marxism ; L Althusser action theory Pareto, Max Waber and Parsons.
5. Knowledge of Interactionist Perspective i.e. symbiolic interactionism ;G H Mead ,H Blumer.

Paper 4 social outreach and skill development

1. A Comprehensive knowledge of socio- culture and economic condition of local community.
2. A critical understanding of the various Government, non -Government schemes running in the locality for their upliftment.
3. A capacity to compare and contrast the different socio economic condition of rural and urban areas and the schemes implemented there.
4. Scientifically prepare project paper and reports on social outreach programmers on the relevant subject.
5. Demonstrate a Proficient skill in speaking reading and writing purposeful and practical hindi .

Paper 5 Rural society in India

1. Students will aware with tribal society as agranian society, tribe class changing problem of tribal land.
2. Students will aware with social issues i. e. migration , Land alienation and loss of livelihood.
3. Students will aware with contemporary issues i.e. health, education, changing status of rural women inequlities.
4. Students will aware with peasant movement causes and types.

5. Students will aware with Naxlite movement in India

M.A. (Sociology) Semester-III
Course Outcome
Paper 1 classical sociological theories

1. After completion of this paper student have knowledge of positivism it‘s origin and basic postulates contribution of comte and Durkheim.
2. Students will aware with functionalism it‘s origin and basic postulates contribution of parsons and merton.
3. Students will aware with conflict theory contribution of L A coser , karl Marx and dahrendorf.
4. Students will aware with structuralism it‘s origin and basic postulates contribution of Red cliff Brown,Levistrauss.
5. Students will aware with exchange theory it‘s origin and basic postulates contribution of Peter Balu and George Homans

Paper 2 perspectives on Indian society

1. After completion of this paper student have knowledge conceptualizing Indian society in terms of certain distinguishtivecharecteristics and configuration i.e.dharma ,varna , ashrama, karma rhen and purusarth.
2. Students will aware with synthesis of textual and field views of IrawatiKarve and K.M. Kapadia ,linkage and network building reasons group and community family marriage,kinship system Indian social organization.
3. Students will aware with structural functionalism MN Srinivas, SC Dube and give knowledge about village social hierarchy ,caste system,caste and class in contemporary India.
4. Students will aware with scale of magnitude of culture ,religions and linguistic diversity in India.
5. Students will aware with subaltern perspectives of B R Ambedkar ,problems of scheduled caste and scheduled tribes Indian society and legislation ,casteism , untouchability ,communalism ,regionalism and national integration

Paper 3 criminology – I

1. After completion of this paper student have knowledge of conceptual and theoretical approaches of crime.
2. After completion of this paper student have knowledge of Type of criminals and crimes.
3. After completion of this paper student have knowledge of changing profile of crime and criminals I.e. corruption cyber crime and crime against women.
4. Student have knowledge about theory of punishment and reformative theory.
5. Student have knowledge about concept of terrorism and it‘s characteristics and terrorism in India

Paper 4Intellectual property rights, Human rights and Environment

1. A Comprehensive knowledge of intellectual property rights like patent and copyright.

2. A critical understanding about human right like related to life liberty equality and disable etc.
3. A critical understanding to interrelationship between human right and environments.
4. TO Develop a sense of how to protect invironment.

Paper 5Social Demography

1. After completion of this paper student have knowledge of importance of population studies and census and NFHS (national family and health surveys).
2. Student have knowledge about population theories.
3. Student have knowledge about population size distribution and characteristics of India‘s.
4. Student have knowledge about population dynamics and control

M.A. (Sociology) Semester-III

Course Outcome

Paper 1 Modern Sociological Theories

1. After completion of this paper student have knowledge of symbolic Interectionismit‘s. origin and basic postulates ,contribution of schutz and berger.
2. Student have knowledge about phenomenology it‘s. origin and basic postulates and ,contribution of G H Mead and Berger.
3. Student have knowledge about ethnomethodology it‘s. origin and basic postulates and ,contribution of Garfunkel and Goffman.
4. Student have knowledge about critical theory it‘s. origin and basic postulates and ,contribution of Adomo and Habermas.
5. Student have knowledge about post modernism it‘s origin and development and contribution of Foucault and Derrida.

Paper 2Comparative sociology

1. After completion of this paper student have knowledge of historical and social context emergence of sociology in the west.
2. Student have knowledge about central themes in comparative sociology i.e. modernity and development, diversity and multiculturalism, environment and globalization.
3. Student have knowledge about theoretical and methodological approaches in sociology.
4. Student have knowledge about current issues of societies I.e. contextualization, indianization and use of native categories.
5. Student participating in debate on ― for sociology of India‖.

Paper 3 Criminology II

1. After completion of this paper student have knowledge ofroots of correction to prevent crime, socialization , family values, role of education.
2. Student have knowledge about correction and it‘s kinds history of prison reforms in India.
3. Student have knowledge about problem of correctional administration and also give knowledge about police, judiciary prosecution and prisoners.

4. Students have knowledge about victimological perspectives and victim‘s responsibility in crime, prisoner‘s human right and women‘s right.
5. Student have knowledge about community policing

Paper 4 Dissertation

1. A Comprehensive knowledge of fieldwork methods and techniques to collect data .
2. A critical understanding how to collect the data, draw table or charts interpret the data and draw appropriate generalization from the same.
3. A research tendency to go for innovative studies for students how to communicate, Where the have done the research, What are the generalizations made and What are the implications of their finding.
4. A critical inclination to read how give references that are complete correct and consistent. Finallythey will learn how to defend their findings orally.

Paper 5 Urban society in India

1. After completion of this paper student have knowledge of classical sociological traditions as urban and city dimensions of Durkahiem ,karl Marx, Max Waber and tonnies.
2. Student have knowledge about urban sociology in indiaemerging trends in urbanization.
3. Student have knowledge about classification of urban centers cities and town, citiy Industrial base it‘s growth and special features.
4. Student have knowledge about changing occupational structure and it‘s impact on social stratification and problem of housing slum development.
5. Student have knowledge about urban planning and problems of urban management of india.

B.Sc. 1st year Zoology

Paper I cell Biology & invertebrates

Course outcome

Co1:- understood the structure of cells and cell organelles in relation to the functional aspects,

CO2:- Understanding the mechanisms of mitosis and meiosis cell decision,

Co3:- know about general character and classification of phylum protozoa,porifera and coelenterate up to order,

Co4:- Come to cowering the general characters and classification of phylum Playhelminthis , Nemathelminthes, Annelida and Arthropoda up to order,

Co5:- Understanding general characters and classification of phylum Mollusca and Echinodermata up to order,

Paper II (Chordata & embryology)

Course outcome

01. Students will understand the classification of hemichordate.
02. Developing the knowledge fish‘s skin & scales, migration in fishes, parental care in fish.
03. Understand bird‘s flight, adaptation, migration and perching mechanism.
04. Understand mammals –comparative account of prototheria, metatheria, Eutheria and affinities.
05. Understanding fertilization, gametogenesis structure of gamete and types of eggs cleavage.

B.Sc. 2nd year zoology

Paper -I (Anatomy and physiology)

Course outcome

1. Student‘s will gain knowledge about integumentary system and derivatives of skin, epidermis and dermis.
2. Develop the knowledge about digestive system in different type of Vertibrate.
3. Student will aware about respiratory system in all Vertebrates.
4. Develop the knowledge about the endoskeleton, limb and girdles.
5. Student will understand circulatory system and increase the knowledge of students about heart and aorta arches

Paper – II (Vertebrate Endocrinology, Reproductive biology, behaviour, evolution and applied Zoology)

Course outcome

1. Increase the knowledge about endocrine glands, hormones and classes.
2. Develop the ability to understand biosynthesis of hormones and hormone receptor.
3. Students will aware about endocrine disorders.
4. Gain the knowledge about reproductive cycle in all Vertebrates.
5. Student will know about hormonal regulation and acquire knowledge about evolution of horse.

B.Sc.-3rd Year Zoology

Paper I (ecology, Environmental biology, toxicology, microbiology and medical zoology)

Course outcome

Co1 **–**Gain knowledge about Ecology and environmental , food chain and conservation of natural , resources.

Co2 –students will learn about low of limiting factor energy flow in ecosystem.

Co3 –Awareness about toxicity and their action , Animal poisons and food poison.

Co4 –Apply knowledge about applied microbiology, microbiology of milk and milk products

Co5 – Develop knowledge about Industrial microbiology. Aware students about medical microbiology.

Paper –(II) Genetics,cell physiology, Biochemistry, Biotechnology and Biotechniques .

Course outcome

1. Co 1. Gain knowledge about gene, gene intraction,and expression. Gain knowledge about PH meter, colorimeter, microscopy.
2. Co 2. Understand the chromosomal disorder and single gene disorder.
3. Co 3. Aware students about cell membrane and mitochondria, endoplasmic reticulum.
4. Co 4. Student will able to know about active transport and it‘s mechanism.Develope knowledge about desperation method of biomolecules.
5. Co 5. Gain knowledge about basic structure and biological function and amino acids and peptides.

M.sc.Zoology 1st sem.

Systematics ,Biodiversity and Evolution .

Course outcome

Co1 :- student will understood –an overview of evolutionary Biology .

CO2 :- understanding of the universal common ancestor and tree of life three domain concept of living kingdom .

Co3 :- understanding of molecular divergence and molecular clock and molecular drive .

Co4 :- student will gain origin and diversification of eukaryotes – origin of cells and first organism .

Co5 :- understanding genomics and humannesscurrent issues in human evolution .

Zo1 Principles of Ecology

Course outcome

- Student will be understanding the various features and aspect of population ecology and intra and inter specific interaction.
- Understanding the ecosystem and biomes.
- Awareness about environment and its conservation processes .
- Students will be understanding few basics of Biotransformation Biodegradation and bioremediation of chemicals .
- Students will be understanding the various issues related to biodiversity loss and conservation of forest and wild life.

Computational biology, Biostatistics and Bioinformatics

Course outcome

CO1:-understanding the various knowledge about basic components of computers.

CO2:-. Aware students for the knowledge of MS excel and MS word.

CO3:- Gain the knowledge about Biostatistics, population, sample. . student will know about data collection and presentation of data.

CO4:-Gain the knowledge about computerized biology. Student will able to know nucleic acid database.

CO5:- Aware students. For the knowledge about genomics and proteomics.

Entomology insect physiology 1st semester Toxicology and victor biology:-

Course outcomes

:-student will learn details about taxonomy and biology insect pests.

:-student will be understanding pesticides impact and pesticides industry.

:-student Gain knowledge of pesticide and its harmful effects.

:-Understand about various insects and its importance in human health.

:-Students will be understand major insect pests and vector responsible for disease transmission.

MSc Zoology second sem

Genetics and cytogenetics

Course outcome

Co1–understanding of mendels principle , its extension and chromosomal basis.

Co2-students will gain nature of the gene and its functions, evolution and the concept of the gene.

Co3-develop the knowledge regarding gene mutation types of gene mutations.

Co4- developing skills in human genetics will capability for karyotyping and nomenclature of metaphase chromosome bands.

Co5- understanding the chromosome anomalies and associated diseases.

Co6-identify link between genetics and cancer with emphasis on oncogene.

Principles of manipulation gene manipulation

Course outcome

• Understanding Basic rDNA techniques and DNA finger Print.

• Understanding the concept of cloning vectors.

• Knowledge gained DNA sequencing.

• Students will understand gene manipulation.

Structure and function of gene

Course outcome

Co 1- Understand various knowledge about structure and Function of nucleic acid.

Co 2 – Aware students for the knowledge about super –Coiling and packaging of DNA in the nucleus.

Co 3 – Gain the knowledge about DNA replication, Recombination and repair.

Co4- students will understand about transcriptions l control Of gene expression.

Co5- gain the knowledge about post-transcriptional gene Control

Co6- Understand various knowledge about nuclear Transport system.

Co7- Aware students for the knowledge of translation,Elongation, termination.

Aquatic resources and their conservation

Course outcome

Co 1. In depth knowledge of aquaculture and Fisheries.

CO 2. In depth knowledge of Israel and Marine fisheries.

Co 3. Detailed understanding of integrated resources and Fishing technique.

Co 4. Detailed knowledge of fish conservation and Harvesting methods.

Co 5. Knowledge of advanced technique used in Aquaculture and fisheries.

M.Sc. Zoology Fourth Semester

Animal Behaviour

Course outcome

1. Understand the pattern and objective of Animal Behaviour
2. To study the socialbehaviour and communication in honey bee
3. Understand in detail fixed action pattern
4. Have a complete understanding innate releasing mechanism, motivational system, rate of Hormones and pheromones
5. Study the altruism, parental care and mate selection.

Biology of parasitism

Course outcomes

1. Understand different parasitic protozoa animals
2. They will gain knowledge about gastro intestinal Nematodes
3. They will be able to understand parasitic cestoda

4. They will be able to understand and analysis bacterial disease
5. Understand different disease transmitted insect and Ticks.

Comparative Endocrine physiology

Course outcomes

1. Gain the knowledge about endocrine system and different type of hormone.
2. student will understand about endocrine control in nemertean , annelids, mollusks, arthropods.
3. student will learn about different types of gland and their evolution.
4. Aware students about raining –angiotensin system, water and electrolylebalance.
5. apply the knowledge of thyroid gland and thyroid hormone synthesis.
6. Gain the knowledge about hormonal control of feeding behaviour and gastro intestinal tract.
7. Information about glucose homeostasis and pancreatic hormones.

(Genomics, Metagenomics and Epigenetic- Genomics)

Course outcomes

1. Detailed understanding of structure and organization of genomes along complexity
2. knowledge of transposableelements,retro- transposon, SUNE, LINE, ALU and other repeat elements.
3. Developing skills in how to map genomes and to integrate physical and genetic maps.
4. understanding bioinformatics –datasets, sequence analysis based on alignment.
5. Develop the knowledge of comparative genomics methods.
6. Development of skill to perform large scale mutagenesis and interference for genome cuide gene targeting.

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B.A. S›mskrit

Impaet of the Course:

The Syllabi designed for B.A. Program is intended to trains the imagination and capacity to think critically and creatively about the world and their own country through the study of poetry, prose, dramatic, linguistics, narratology, and aesthetics in Malayalam Language and Literature.

B.A. Sanskrit program tries to make the student community to study Post Colonial Theories of Literature as well as Cultural Studies, World Poetry, Epistemology, Sanskrit Language and Literature, and Eco-Criticism. In the First Year student sample a wide variety of literature and cultural theory and develop a solid basis of knowledge and skill which they then build on in years of two and three.

The varied fact in curriculum encourage engagement with significant range of literacy non-literacy genres. including firm, theatre and popular art form which may lead our students towards universal concept. The character making and responsibility making syllabi develops student power of critically or analytical thinking alongside and appreciation of crafting of written utterances and enabling them to carry the quality of response into future reading.

The program employs a variety of forms of assessment and includes unseen and revealed written course work essay, seminars, workshops, research reports, oral presentations. So the program can develop skill for employment future study both discipline related and transformable.

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Unit - I

Swapnavasvadatam is the famous work of Sanskrit literature

Through this, students will be able to understand the ancient theatrical tradition of India

The play is written in simple Sahaj Pranjal language which will make students successful in understanding Sanskrit

The interpretation of swapnavasvadtam will help students to understand and learn Sanskrit language. In the pupils

Knowledge of Indian moral values and building sublime character

Unit-II

wQuatiu*

In the critical questions the students have knowledge oFthodivvr«•sldcsu£Hir'r•gi1ill which they acquire knowledge of the different dimensions of the play in which poetic

introduction ,poet introduction characterization nature illustration adornments get knowledge of Bodhan power is developed

Unit-III

The knowledge of the word form develops the ability of h:inskri[j ,t{«cn*c building iNstudents so that students can make sentence building language ca ı understa ıd literature easily

B.

The knowledge of metal diseases gives knowledge of t e actions of Sanskrit so that students build sentences. understand the texts of Sanskrit, it is easy to read the reading of Sanskrit literature.

This makes the students answer the poem questions unread passages it develops the language logic power increases the langı sentence formation Sanskrit gets proficiency in sent nee formation

Unit IV

Pratyahar Noun Treaty Inflection Meaning

grammar in Sanskrit is obtained ar in the initial form only through pratyahar.

In Sanskrit grammar the noun case has special signil ınce Sanskrit grammar can be understood only by the knowledge of the noun through the noun he will be able to erstand the hole grammar called

Unit-V

Hindi to Sanskrit Translation

Translaiiun From Hindi language to Sanskrit language instills interest in Sanskrit among students. students acquire proficiency in translating from Golden Hindi translation to Sanskrit.

Paper-II Mattress Fiction & Literature History

Unit-I

Shuknasopadesh Interpretation

Shuknasopadesh is a very preachy aashakti mattress treatise for the pupils in which they are told about the various problems they face in life.

Unit-II

Interests Mitra Benefits

In this book. students and students learn important gnanpur in life through stories under which policy education etc. Indian ancient knowledge acquires two. it develops moral values and practical knowledge in them review questions of

Unit-III

Shuknasopadesh and hitopadesh review questions are asked under which students and students are able to review the treatise in which stories and sermons Kartar poets can understand topics like introduction and characterization.

Unit-IV

In this. students and students will be able to understand Vedic Sanskrit literature well and will be able to know mythological literature by reading it under vedangs. teachers will also

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ammar free astrology. students and students will also be able to know about Aranyak and Upanishads

Unit-V

Poet Introduction

In this section students and students are introduced to the famous poets of Sanskrit literature in which they read about the great poets Mahakavi Kalidas Mahakavi Bharavi Mahakavi Magh Mahakavi harsh visakhadatta and Banabhatta etc.

B.A. Part-II

Paper-I

Unit-I

Subject hmm afi.mMn itr had Cum**position**

hr»ni‹i N‹›gynnn‹l

This section features lJRKl clturit Nftiak Nttgrrtnnda. n lâmaus Uf **Sanskrit literature in** which students will be tibl* tc ut *rstnnd.simpl« 5unskrit.end d«vulep their languugo skil,lx

U»it-II

Nagxnn»d

In this section students ttt\d students »ill st«dy Nagoaond drama tinder which thy BT imparted knowledge of flirt Tent JiM cMsiul\s uf' dron o. In tltia. students and student understand the Ras Alankar kathasar characterization poet introduction of the play

Ka Bhavavachya

In Sanskrit synlxx ie «n important part of the students and students are taught reading in this sc«tinn. under which they get knowledge of different types of sentence usage which develops their langtiagc xkil.l* and enable them to understand Sanskrit literature well.

Unit-IV

Samas Case

In Sanskrit, society is of great importance. understanding the Samas helps students and students to understand the texts of Sanskrit literature. knowledge of the society improves their language skills

Unit-V

Vakya rachna

Under this. students and students have to construct Sanskrit sentences under which students and students learn to construct sentences based on Sanskrit words, thereby developing Sanskrit sentence building skills in them.

Paper-II

Subject verse and literary history

Unit-I

Raghuvansh Epic II Canto

In this section, students get acquainted with the epic Raghuvansh of Mahakavi Kalidas , which describes the 29 Kings of Raghuvansh through which students get to know the tradition of Maha poetry

Unit-II

Raghuvansh Epic

Under this, students gain knowledge of the various parts of the epic under which the characteristics of the epic Ras Alankar poetry introduction poet introduction characterization learn

Unit-III

Ethics in this section students study the shlokas of the policy Century written by bharatari in which they are taught the ideal and ethical terms, thereby developing moral values among the students

Unit-IV

Literary History Epic & Prose Poetry

In this section students learn about the history of epic and prose poetry in which students study the various parts of the epic and get an introduction to them like Raghuvansh kumarasambhava buddhacharita.

Under prose poetry ten Kumar Charit Kadambari know prose poetry like Shivraj Vijay

Unit-V

Literature History Poetry Free And Fiction

Under this, students know about various lyricism in which they can understand the different dimensions of Sanskrit poetry world ,read famous works like Bhartrihari's century, season nawawad century, geetgovind, students get knowledge of various fiction literature of Sanskrit literature.

B.A. Part-III, Sanskrit

Paper-I

Drama Verses and Grammar

Unit-I

Knowledge Shakuntalam

In this, the students read the shakuntal play of Mahakavi Kalidas, which gives them knowledge of the famous creation of Indian theatrical tradition.

Unit-II

Reviews

In this, shakuntal is studied critically so that the students gain good knowledge of the topics mentioned in poetry, develop logic power, understand poetry introduction and poet introduction well.

Unit-III

The verses of the symptoms in students and students of Sanskrit in various verses of the knowledge provided is Which into intra such as the verses of the reading-reading plan from them Sanskrit picturesqueness and suavity is the realization of the verses sort the GA will be able to and he's poetry is well understood back.

Unit-IV

Grammar Short Theory Kaumudi

In this section, students study various suffixes such as tavyat aneer Yat students develop the ability of Sanskrit speech writing and syntax.

Unit-V

Grammar Short Theory Kaumudi

Fixed Case and Female Suffix In this section, the knowledge of the mentioned words is imparted so that they understand the nature and suffixes of the Sanskrit language, get

acquainted with the nature of the words and understand the nature of Sanskrit word formation.

First serg

In this, students know about the kiratarjuniyam epic which is said to be famous for Artha ¿atirnm.

They read kiratarjuniyam, a famous work for arthgambhasabh, which gives students the knowledge of the characteristic of Sanskrit meaning gandhasabh.

In this Section, /t tiriticxl Study ‹›f kir«txrjuniyzm is carric•d ‹›ut. t !hich hc!ys aht: stUb«nlstn. learn the poetic characteristics of the girls and to gain knowledge of the various dimensions of the epic.

He studies the art side and sense critically .

Unit-III

Original Ramayana

Adi Kriti Mool Ramayana study of Valmiki ji and cosmic Sanskrit develops the tendency of teaching Sanskrit Studies in Sanskrit students.

Unit-IV

Decking

Under this, the students acquire knowledge of various Sanskrit adornments through Sanskrit texts which makes them easy to understand the literature in which they study the characteristics and examples of the adornments.

Unit-V

Essay

In this, students learn the writing of Sanskrit essays, they are taught to write essays on various important topics so that they are proficient in Sanskrit reading, writing and communication.

Specific of Programme

After studying Sanskrit, students will be able to work in different areas of the society; Sanskrit language is seen with respect in Sanatan Hinduism; after studying Sanskrit, students will be able to compete in various state competitions. You will be able to become a high officer by participating in it. You will be able to do the work of translator in newspapers in All India Radio. Professors in schools and colleges can work as teachers, religious leaders and priests in the army. Being a student of literature, one will also be able to succeed in areas like art and music writing.