

# **DEPARTMENT OF AGROCHEMICALS AND FERTILIZERS**

## **COURSE OUTCOME**

### **B. Sc. First Year**

#### **Semester I**

##### **Paper no. I Organic chemistry**

- Able to learn Classification, Preparations and reactions of Glycol, Glycerol, Resorcinol, Cresols, Naphthol, Formaldehyde, acetaldehyde, acetone, methyl amine and Substituted carboxylic acid
- Develop skills about analysis of organic compounds.
- Able to predict empirical and molecular formula.
- To classify alkaloids and understand chemistry of nicotine
- Able to learn classification, preparation and chemical reactions of heterocyclic compounds containing one hetero atom.

##### **Paper no. II Physical chemistry**

- Able to distinguish between homogeneous and heterogeneous catalysis.
- To understand basic concepts in catalysis and theories related to it.
- To learn mode of action of enzyme catalysts and its importance.
- To familiarize with fundamental principles and techniques of chromatography
- To understand concepts of osmosis, surface tension, viscosity, common ion effect and their applications
- Get aware of importance of photochemistry in agriculture.

#### **Semester II**

##### **Paper no. IV Agricultural chemistry**

- To understand manufacturing method ethanol and get aware with different kinds of spirits.
- To learn use of Agrochemicals in Agriculture and Agro industries like Insecticide, Fungicides, Weedicides, etc.
- Get introduced with different pollutants and their consequences on environment.
- To familiarize with some plant diseases.

##### **Paper no. V Physical chemistry for Agricultural**

- To understand fundamental concepts and laws of electrolysis.
- Able to classify electrodes.
- To learn different types of colloids, concept of radioactivity and their applicability in agriculture.
- To adopt applications of various physico-chemical methods in agriculture.

### **B. Sc. Second Year**

#### **Semester III**

##### **Paper no. VII Soil Science**

- To understand concept of soil, rocks and minerals.
- Get aware with soil profile and physical properties of soil.
- To classify physical, chemical and biological weathering I soil formation process.
- To adopt techniques of soil testing related to soil fertility and productivity.

##### **Paper no. VIII Biochemistry**

- Able to understand scope and importance of biochemistry in spite of agriculture.

- Able to learn concept, classification, properties and significance of different agriculture related derivatives of carbohydrates, proteins, amino acids, lipids and enzymes.
- To adopt techniques in biochemical analysis.
- Get aware with animal hormones and their functions.

#### **Semester IV**

##### **Paper no. XI Soil chemistry**

- Students will gain knowledge on concepts and principles of Soil chemistry
- Comprehensive knowledge on rocks and minerals, their composition and the types of soils formed from different parent materials.
- Understand the role of soil forming factors and processes in soil formation
- Understand various soil physical, chemical and biological properties and their impact on plant growth.
- The knowledge gained in this course will be useful in understanding the behavior of soils in crop production and management

##### **Paper no. XII Agriculture chemistry**

- Understand the fundamental principles in the field of agriculture related with chemistry
- Evaluate and understand the use of organic compounds in agriculture
- Able to integrate knowledge of basic agriculture issues related with environmental health, chemical hazards and human nutrition.

#### **B. Sc. Third Year**

#### **Semester V**

##### **Paper no. XV Organic Manures**

- Grab concept, scope, preparation, composition, application and importance of farm yard manure
- Able to understand process of compost preparation and importance
- Get aware with construction and applications of gobar gas technology.
- Inculcated with importance of green manuring, oil cakes and organic farming

##### **Paper no. XVI Fertilizers**

- To understand process of manufacture, properties, forms and rate of application of nitrogenous, phosphatic, potassic, micronutrient carrier and complex fertilizers with examples.
- Get aware with basal and split applications of fertilizers
- Get introduced with types and importance of bio fertilizers.

#### **Semester VI**

##### **Paper no. XVIII Plant Nutrition and Fruit preservation**

- Able to learn methods, techniques and applications of hydroponics in agriculture
- Develop an understanding of how mineral nutrients are taken up by plants, transported and assimilated by plants
- Understand the role of mineral nutrients in the quality of the harvested product.
- Develop an understanding of how nutrients interact
- Able to learn Preservation methods of fruits and vegetables

- Develop preparation skills of jam, jellies
- Learn post harvesting technologies

**Paper no. XIX Agricultural Technology**

- Understand the role of mineral nutrients in the quality of the harvested product.
- Develop skills in interpreting the results of soil and plant analyses
- Develop a critical approach to data analysis and interpretation

**DEPARTMENT OF BOTANY  
COURSE OUTCOME**

**Semester I**

**Diversity of Cryptogams I & II (P I & P IV)**

- The courses have been designed to benefit all Botany students to study various aspects of plant science including its practical applications.
- These students can take up teaching at different levels, research work in research institutes and or industry, doctoral work, environment impact assessment, biodiversity studies, entrepreneurship; scientific writing relevant topics have been included in the curriculum.
- Syllabus also deals with study the understand the multi functionality of plant cells in production of fine chemicals and their wide spread industrial applications.
- Cryptogams have an important role & function in bio prospecting.
- Algae, Fungi along with Bryophyte & Pteridophytes have many ecological, economic & industrial applications which can be grasped by students.

**Morphology of Angiosperms(P II)**

- Useful in basic botany study.
- Useful in plant classification (Taxonomy study).
- Creates hands on agricultural field practices.
- Benefited in plant breeding study.

**Histology,Anatomy and Embryology (P VI)**

- Creates knowledge regarding plant internal cell structure.
- Benefited in plants science research.
- Study of anatomy, embryology useful for research on various aspects of plant.

**Practical based on course (P I , II, V AND VI)**

- Useful in identification of plants, fruits, flowers.
- Provides knowledge of pollination and reproduction in plants.
- Useful for identification of different types of flowers and fruits.

**B.Sc. II**

**Taxonomy of Angiosperm (P IX)**

- Making aware about plant diversity and flowering plants.
- To acquaint with world history about classification of plants.
- To create awareness regarding structural features of plants.
- To develop vision of identifying plants around the world.
- To classify plants on basis of various morphological features.

**Plant Ecology (P X)**

- In this subject student studies Plant Interactions with nature& Other Organisms.
- It is the study of interactions of organisms with one another as well as with their environment.

- In plants, competition generally is indirect, through the resource, not direct, one-on-one. Plants with the same life form and growth requirements are often in competition but surviving in slightly different microenvironments.
- In a symbiosis, two different kinds of organisms live together in an intimate and more or less permanent relationship.
- There are many practical applications of ecology in conservation biology, wetland management, natural resource management city planning (urban ecology), community health, economics, basic and applied science
- Ecosystems sustain life-supporting functions and produce natural capital, such as biomass production (food, fuel, fiber and medicine).

### **Gymnosperms and Utilizations of Plants resources (P XIII)**

- Create awareness about plant resources.
- To aware regarding non-flowering plants around the world.
- Create awareness about economic important plants.
- To acquaint with agricultural practices for common crops of India

### **Practical's based on (P IX and XIII)**

- Identification of plants based on morphological characters.
- Creates awareness regarding economic important plants and there cultivation practices.

### **Plant Physiology (P XIV)**

- Plant physiology is the study of the structure and function of plants and other processes of plants.
- Plant physiology is a division of biology pertaining to plant life, along with their processes and functions. Fundamental processes such as photosynthesis, respiration, plant nutrition,
- Plant hormone functions, tropisms, nastic movements, photoperiodism, photomorphogenesis, circadian rhythms, environmental stress physiology, seed germination, dormancy and stomata function and transpiration, both parts of plant water relations, are studied by plant physiologists.
- It is an experimental, laboratory-based field of science that requires knowledge of physics and chemistry.
- Plant physiologists study a wide range of processes and functions that plants use to live and survive.
- To function and survive, plants produce a wide array of chemical compounds not found in other organisms.
- Plant physiology includes the study of biological and chemical processes of individual plant cells.

### **B. Sc. III**

### **Cell Biology and Molecular Biology (P XVII)**

- To acquaint with basic structure of all cells.
- To acquaint with structures of cell organelles and their function.
- To get detailed knowledge of cell at molecular level.

- To aware about basic terminology of plant cell.
- To apply information for new research in cell and molecular biology.

#### **Plant Breeding and Seed technology (P XVIII B)**

- Provides knowledge of various methods of crop improvement.
- It provides basic knowledge of methods of hybridisation in plants which are used as tool in seed companies.
- Useful in agricultural research.

#### **Genetics and Biotechnology (P XXI)**

- To develop knowledge regarding history of Basic genetics.
- To create awareness regarding terminology of genetics.
- Develop the sense of research in genetic engineering.
- Theoretical and practical awareness about genes and it functional features.
- Creating awareness regarding genetical disorders in human and all living organisms.

#### **Practical's based on (P XVII and XXI)**

- Hands on cell division process.
- Identification of various chromosomes.
- Awareness regarding Mendal's experiments.

#### **Economic Botany (XXII B)**

- Useful in agricuttural field.
- Gives knowledge of importance of various crop and economic values.

#### **Practical's (XXI and XXII)**

- Hands on plant breeding experiment.
- Useful in study of plants on economic basis.

### **M.Sc. Botany**

#### **Course Outcomes**

#### **M.Sc. I**

##### **Cell Biology (BOT 401)**

- To acquaint with basic structure of all cells.
- To acquaint with structures of cell organelles and their function.
- To get detailed knowledge of cell at molecular level.

##### **Molecular Biology (BOT 402)**

- To get detailed knowledge of cell at molecular level.
- To aware about basic terminology of plant cell.
- To apply information for new research in cell and molecular biology.

### **Biology and Diversity of Algae, Fungi and Microbes (BOT 403)**

- The courses have been designed to benefit all Botany students to study various aspects of plant science including its practical applications.
- Syllabus also deals with study the understand the multi functionality of plant cells in production of fine chemicals and their wide spread industrial applications.
- Cryptogams have an important role & function in bio prospecting.
- Algae, Fungi along with Bacteria have many ecological, economic and industrial applications which can be grasped by students.

### **Taxonomy of Angiosperm (BOT 404)**

- Making aware about plant diversity and flowering plants.
- To acquaint with world history about classification of plants.
- To create awareness regarding structural features of plants.
- To develop vision of identifying plants around the world.
- To classify plants on basis of various morphological features.

### **Biotechnology (BOT 407)**

- To develop knowledge regarding history of plant tissue culture.
- To create awareness regarding terminology of Biotechnology genetics.
- Develop the sense of research in genetic engineering, plant tissue culture.
- Theoretical and practical awareness about genes and it functional features.
- Creating awareness regarding genetical disorders in human and all living organisms

## **M. Sc. II**

### **Biology and Diversity of bryophytes, Pteridophytes and Gymnosperms ( BOT 501)**

- These students can take up teaching at different levels, research work in research institutes and or industry, doctoral work, environment impact assessment, biodiversity studies, entrepreneurship; scientific writing relevant topics have been included in the curriculum.
- Bryophytes, Pteridophytes Gymnosperms have many ecological, economic and industrial applications which can be grasped by students.

### **Plant Ecology and Conservation (BOT 502)**

- In this subject student studies Plant Interactions with nature & Other Organisms.

- It is the study of interactions of organisms with one another as well as with their environment.
- In plants, competition generally is indirect, through the resource, not direct, one-on-one. Plants with the same life form and growth requirements are often in competition but surviving in slightly different microenvironments.
- In a symbiosis, two different kinds of organisms live together in an intimate and more or less permanent relationship.
- There are many practical applications of ecology in conservation biology, wetland management, natural resource management city planning (urban ecology), community health, economics, basic and applied science
- Ecosystems sustain life-supporting functions and produce natural capital, such as biomass production (food, fuel, fiber and medicine).

### **Genetic Engineering and Bioinformatics (BOT 504)**

- To develop knowledge regarding history of Basic genetics and bioinformatics.
- To create awareness regarding terminology of genetics and bioinformatics.
- Develop the sense of research in genetic engineering.
- Theoretical and practical awareness about genes and its functional features.

### **Advanced Plant Physiology and Biochemistry**

- Plant physiology is the study of the structure and function of plants and other processes of plants.
- Plant physiology is a division of biology pertaining to plant life, along with their processes and functions. Fundamental processes such as photosynthesis, respiration, plant nutrition,
- Plant hormone functions, tropisms, nastic movements, photoperiodism, photomorphogenesis, circadian rhythms, environmental stress physiology, seed germination, dormancy and stomata function and transpiration, both parts of plant water relations, are studied by plant physiologists.
- It is an experimental, laboratory-based field of science that requires knowledge of physics and chemistry.
- Plant physiologists study a wide range of processes and functions that plants use to live and survive.

- To function and survive, plants produce a wide array of chemical compounds not found in other organisms.
- Plant physiology includes the study of biological and chemical processes of individual plant cells.

## **DEPARTMENT OF CHEMISTRY**

### **COURSE OUTCOME**

#### **B. Sc. First Year Chemistry Semester I**

##### **Paper no. I Inorganic chemistry**

- To adopt basics of atomic structure and principles related to filling of atomic orbital.
- Briefly elaborate trends in periodic properties viz. atomic and ionic radii, ionization energy, electron affinity and electro negativity with application in predicting chemical behavior.
- To study basic chemistry of elements of s and p- block.

##### **Paper no. II Organic chemistry**

- To understand basic concepts in organic chemistry- classification of reactions, reagents and mechanisms of organic reactions.
- To learn fundamental concepts from stereochemistry and its importance.
- To familiarize with chemistry of hydrocarbons and their importance
- To understand concepts of aromaticity.

#### **Semester II**

##### **Paper no. IV Physical chemistry**

- To understand basic mathematical concepts related to chemistry
- To understand kinetic theory of gases, kinetic gas equation, and gas laws.
- To study kinetics and dynamics of chemical reaction.
- To adopt concepts of Catalysis and Enzyme catalysis.
- To learn basics and classification of liquid and solid state
- To familiarize with colloidal state and their properties

##### **Paper no. V Inorganic chemistry**

- To understand chemical properties of the noble gases and chemistry of xenon
- To learn types and theories related to bonding
- To adopt basics and applications of nuclear chemistry
- To study theories of volumetric analysis and its components.

#### **B. Sc. Second Year Chemistry Semester III**

##### **Paper no. VII Organic chemistry**

- To understand structure, reactivity, methods of preparation and chemical reactions of different types of organic compounds - alcohols, Phenols, aldehydes, ketones, amines and carboxylic acids.
- To adopt and develop skills of writing mechanism of some named reactions
- To learn uses of reagents in organic chemistry like  $\text{LiAlH}_4$ , LTA, PTC.

##### **Paper no. VIII Physical chemistry**



- Able to learn basic concepts in thermodynamics.
- To understand the laws of thermodynamics
- To study Carnot cycle and its applications,
- To adopt concept of entropy, Gibbs and Helmholtz Functions, Criteria for thermodynamic equilibrium and spontaneity, their advantage over entropy change.
- Able to understand equilibrium constant, free energy and laws related to it.

#### **Semester IV**

##### **Paper no. X Inorganic chemistry**

- To gain knowledge of co-ordination compounds
- To learn basic concepts and theories of acids and bases
- To understand Chemistry of d-Block and f-Block Elements
- Able to classify solvents and learn reactions in non-aqueous solvents

##### **Paper no. XI Physical chemistry**

- Know the meaning of phase, component and degree of freedom
- Creates awareness about rate of reactions and factors influencing rate of chemical reaction.
- After completion of these courses students should be able to Know the rate constant and factors affecting rate of reactions
- Write an expression for rate constant (K) for first order, second order reaction.
- Know the terms cell constant, specific conductivity, equivalent conductivity and molar conductivity.

#### **B. Sc. Third Year Chemistry**

#### **Semester V**

##### **Paper no. XVII Physical chemistry**

- To study basic concepts of quantum mechanics
- Able to understand properties of wave functions
- To learn depth knowledge of quantum numbers and its importance
- To acquire basic features of spectroscopy
- To familiarize with thermal & photochemical processes
- To study the physical and chemical properties of nonmaterial

##### **Paper no. XIV Organic chemistry**

- Are skilled in solving combined problems of spectroscopy
- To understand concept and mechanism of organometallic compounds
- Able to analyze fats, oils and detergents

#### **Semester VI**

##### **Paper no. XVII Organic chemistry**

- Learn the mechanism of Electrophilic Substitution reaction of Heterocyclic Compounds
- Know the characteristics and Classification of Drugs and Dyes
- Explaining theories of Color and chemical constitution of Dyes
- Get basic knowledge of carbohydrates.
- Able to classify synthetic polymers.

##### **Paper no. XVI Inorganic chemistry**

- Able to understand fundamentals of organometallic compounds
- Will understand concept of VBT, CFT, etc.
- Able to understand basics of molecular geometries
- Learn concept of chromatography and its applications

**COURSE OUTCOME**  
**M. Sc. Organic Chemistry**  
**Semester-I**

**CHE-101 Analytical Chemistry**

- Able to define basic concepts of analytical chemistry
- Interpret and evaluate statistics of analytical data
- Will familiar with basic separation techniques
- Able to understand fundamental principles, theories and applications of chromatographic techniques

**CHE-102 Inorganic Chemistry**

- Analyze and interpret symmetry properties of molecule
- Increase critical thinking about symmetry elements
- Able to predict the reaction mechanism of transition metal complexes
- Be able to evaluate Biological activities of metal complexes

**CHE-103 Organic Chemistry**

- Able to understand fundamental concepts of chemical bonding in organic molecules
- Are able to classify reactions and predict intermediates
- To develop skills of writing mechanism
- Able to describe kinetic and thermodynamic properties of molecules
- Able to understand fundamental principles and applications of stereochemistry
- Adopt the concept of chirality

**CHE-104 Physical Chemistry**

- Brief overview of laws of thermodynamics and partial molar properties for different systems and concept
  - Discuss concept of theory of reaction rate and isotropic effects
  - Will be able to explain most probable distribution and thermodynamic probability
- Concept of partition functions and its significance
- Can relate and explain the entropy production in different system
  - Explain adsorption and relate the adsorption models and can use the knowledge of adsorption chemistry in different fields
  - Solve problems related to quantum chemistry, will have large horizon of critical thinking and analytical reasoning.

**Semester-II**

**CHE-205 Spectroscopic Methods of Analysis**

- Able to explain basic principles of rotational, vibration, electronic and Raman spectroscopy.

- Able to identify and explain factors that influence the strength and frequency of peaks in the Microwave, IR, and UV-Vis spectra.
- Will describe the selection rule for UV, IR and NMR spectroscopy.
- Will determine the vibrations for a molecule and identify whether they are active in infrared and/or Raman spectroscopy.
- Justifies the difference between Stokes and anti-Stokes lines in a Raman spectrum and difference in intensity between Stokes and anti-Stokes lines.
- Draw the Stokes and anti-Stokes lines in a Raman spectrum of a compound when given the energies of the different transitions.
- To understand the electronic spectra of atomic and diatomic molecular systems
- Justify the absorption lines in atomic electronic spectra and the broad bands in molecular electronic spectra.
- Able to interpret the molecular electronic spectra and deduce the electronic structure information in ground and excited states of diatomic molecules.

#### **CHE-206 Inorganic Chemistry**

- Grasp concept of spectroscopic term symbol
- Able to elaborate terms regarding magnetic properties and electronic spectra of metal complexes
- To classify and understand properties of different metal carbonyls and metal nitrosyl compounds
- Adopt chemistry of dinitrogen and dioxygen complexes

#### **CHE-207 Organic Chemistry**

- Understand the fundamental principle and application of organic chemistry
- Illustrate the classification of organic reactions
- Have developed their logical reasoning and judgment
- Understand the concepts of stereochemistry and its applications
- Write possible mechanism of the organic reactions and predict their stereochemistry

#### **CHE-208 Physical Chemistry**

- Grasp the fundamental concepts of photochemistry
- Be able to use applications of phase rule to different systems
- Able to understand different theories of quantum chemistry
- Illustrate and classify liquid crystals

### **Semester-III**

#### **CHEO-313 Structure Elucidation by Spectral Methods**

- Explain the basic principles of UV, NMR, ESR and Mossbauer spectroscopy.
- Identify and explain factors that influence the strength and frequency of peaks
- Understand the electronic spectra of atomic and diatomic molecular systems.
- Justify the absorption lines in atomic electronic spectra and the broad bands in molecular electronic spectra.
- Able to interpret the molecular electronic spectra and deduce the electronic structure
- Able to analyze spectral data and predict structure of organic compound

### **CHEO-314 Organic Synthesis**

- Able to Write possible mechanism of the organic reactions mechanism
- To acquire knowledge of using different oxidizing and reducing agents in organic synthetic reactions
- Get depth knowledge of organic and organo metallic reagents

### **CHEO-315 Asymmetric Synthesis and Bio-organic Chemistry**

- Able to classify various asymmetric reactions.
- Acquire applicative knowledge of new techniques and concepts in organic synthesis
- Have a good overview of the core concepts in supramolecular chemistry and explain non covalent interactions, molecular recognition and self-assembly
- Able to identify the biological importance of Enzymes, Nucleic acids & Lipids

### **CHEO-316 Photochemistry, Free radicals and Pericyclic Reactions**

- To acquire knowledge on Pericyclic reactions, named reactions and their further applications in organic synthesis
- Able to predict the stereochemistry & products of the Pericyclic reactions
- To understand knowledge on organic photochemistry, molecular rearrangement with applications.
- Adopt concepts of free radical reactions and their mechanisms.

## **Semester-IV**

### **CHEO-417 Organic Synthesis: Retrosynthetic Approach**

- To know the importance of retrosynthesis in designing the synthesis of organic compounds.
- To impart knowledge about the mechanism & importance of the new synthetic reactions.
- Able to apply various disconnection approaches & the retrosynthesis of organic compounds in designing of new compounds.
- Acquire Knowledge about various new modern organic synthetic reactions and their mechanisms involving in the formation of C-C, C-X, C=C bonds.

### **CHEO-418 Advanced Organic and Heterocyclic Chemistry**

- To learn generation, stability of intermediates and mechanisms of various named reactions
- Adopt knowledge about importance, synthesis of heterocyclic compounds, techniques involved in the extraction, To identify intermediates formed in given reaction and able to write mechanisms for molecular Rearrangements
- To apply synthesis and applications of Heterocyclic compounds

### **CHEO-419 Chemistry of Natural Products**

- To acquire fundamental knowledge of synthesis and extraction of natural products
- To predict names and structures of alkaloids, steroids, flavones and terpenoids
- Brief elaboration of methods of preparation and structure determination of alkaloids, steroids, flavones and terpenes

- Gain knowledge in Designing of synthesis of natural products by retrosynthesis
- To apply synthesis and applications of alkaloids in the development of new drugs

### **CHEO-420 Medicinal Chemistry**

- Adopt knowledge of synthetic medicinal compounds,
- Able to understand mechanisms of action and safety of medicinal compounds
- Applicative knowledge of synthetic medicinal products in development of newer drugs and importance of Pharmacokinetics & pharmacodynamics of drugs
- To classify and illustrate utilities of drugs.

## **DEPARTMENT OF ELECTRONICS COURSE OUTCOME**

### **ELE-101- Paper I**

#### **Network Theorems and Semiconductor Devices**

- Students get knowledge of simple network theorems
- They understand semiconductor devices and their applications

### **ELE-102- Paper II**

#### **Digital Electronics –I**

- Got detail information about digital electronics, which is useful to understand logic gates and circuits

### **ELE-201-Paper-IV**

#### **Amplifiers**

Students got knowledge to basic electronics devices as well as transistor, JFET etc.

### **ELE-202-Paper-V**

#### **Digital Electronics-II**

They understand various circuits, laws, theorems related with digital electronics, which is necessary for communication system etc.

### **ELE-301-Paper VII**

#### **Operational Amplifiers**

Students got information about operational amplifiers.

Got applications of operational amplifiers I various concord field

### **ELE-302-Paper-VIII B**

#### **8085 Microprocessor-I**

Students obtain information about microprocessor their pins and its functioning.

Got knowledge of programming techniques

### **ELE-401-Paper- XI**

#### **Communication electronics**

Student learns various types of modulations and demodulations.

### **ELE-402-Paper XII-B**

#### **8085 Microprocessor-I**

Got knowledge about Timing, stack and subroutine

got idea input and output data transfer techniques

### **ELE-501 paper XVII**

**Power Electronics**

Students get information about Thyristor, UJT, Diac, Triac etc.  
They understand basic sensors their types.

**ELE-502B paper XVIII B****8085 Interfacing-I**

Know details about semiconductor memories and interfacing.  
Know about interfacing of various ICs.

**ELE-601B paper XXI B****Instrumentation**

Student gets information about measurements, displays and recorder.  
Detail study of basic symbols, structure, internal arrangement as well as applications for various essential fields.

**ELE-602B paper XXII B****8085 Interfacing-II**

Students learn programmable interval timer. Which are necessary for program as well as DMA controlled input output, their operating modes.

## **DEPARTMENT OF PHYSICS COURSE OUTCOME**

**Semester-I****PHY-101 Paper-I**

After completion of this course students is able to know

- Gravitation and its applications for human being.
- Nature and properties of elastic and non-elastic materials.
- Properties of liquid.
- What are ultrasonic waves, how they are produced and its applications in daily life

**PHY-102 Paper-II****Heat and Thermodynamics**

- Learn thermal properties of materials
- How heat is transferred from one medium to other medium.
- How heat engine is worked, What is the process of working of heat engine

**PHY-104 Paper-IV****Geometrical and physical optics**

- It gives the knowledge of nature of light and optical instruments
- Student is able to wave properties of light
- Applications of optical phenomenon in real life

**PHY-105 Paper-V****Electricity and Magnetism**

- By studying this course student is able to know basic mathematics useful in physics.
- Know about electric and magnetic field, its applications in daily life

**PHY-201 Paper-VII****Mathematical, Statistical Physics and Relativity**

- By studying this paper students are able to apply mathematical tools to physics

- Know about the statistical approach to Physics
- Understand classical and quantum statistical mechanics

### **PHY-202 Paper-VIII**

#### **Modern and Nuclear Physics**

- Understand particle nature of light and its applications in daily life.
- Generation of X-rays and its applications
- Know about the nuclear forces and models and its applications in daily life.

### **PHY-205 Paper-XI**

#### **General Electronics**

- Student will get basic knowledge of electrical circuits and its applications.
- By studying transistors and amplifiers students will learn basic of computer

### **PHY-206 Paper-XII**

#### **Solid State Physics**

- After studying this paper students will get basic knowledge of crystal structures.
- Know the thermal properties of materials and its applications.
- Learn connection between chemical approaches of materials.

### **PHY-301 Paper-XV**

#### **Classical and Quantum Mechanics**

- Understand mechanics of single particles and many particle systems.
- Get knowledge about motion of bodies and its equations of motions.
- Understand link between classical and quantum mechanics.
- Understand dual nature of light and its applications.

### **PHY-302 Paper-XVI**

#### **Electrodynamics**

- Get the knowledge of static and dynamic charges.
- Know the production of electromagnetic waves and its applications in daily life.
- Understand the properties of electromagnetic waves and its interaction with the matter.

### **PHY-305 Paper-XIX**

#### **Atomic and Molecular Physics and LASER.**

- By studying this paper student is able to know basic structure of atom its properties and Different atomic models.
- Know about molecular structure and its applications.
- Understand LASER source and its properties, its applications in industry, medical field and biology.

### **PHY-306 Paper-XX**

#### **Non-conventional energy sources and optical fiber**

- Students are able to know about conventional and non-conventional energy sources.

- Know about solar energy, wind energy, tidal energy, hydro energy and its production.

## **M.Sc. Physics COURSE OUTCOME**

### **PHY-401**

#### **Mathematical methods in physics**

- Are able to apply mathematical tools to physics.
- Understand physical significance of mathematics in physics.
- Are skilled in mathematical calculations.

### **PHY-402**

#### **Classical Mechanics**

- Understand mechanics of particles.
- Get knowledge of laws of motion and its applications.
- Know different approach of equations of motion.
- Understand link between Newtonian and quantum mechanics.

### **PHY-403**

#### **Quantum Mechanics-I**

- By studying this paper students will able to know origin of quantum mechanics.
- Know dual nature of light and its properties.
- Get the knowledge of angular momentum and its applications.

### **PHY-404**

#### **Linear and Digital Electronics**

- Students will learn functioning of amplifiers and its applications in daily life.
- Will get the knowledge of multivibrators and its applications.
- Know about the counters and its applications.

### **PHY-405**

#### **Quantum Mechanics-II**

- Know about the approximation methods and its significance.
- Know concept of scattering and its applications.

### **PHY406**

#### **Statistical Mechanics**

- Will able to know different distributions of particles and its applications.
- Difference between classical and quantum approach of statistical mechanics.
- Know about first order and second order transitions along with Ising models.

### **PHY-407**

#### **Electrodynamics and Plasma Physics**

- Students will aware with electromagnetic waves, its equations in free space and different mediums.
- ii)Introduction to Maxwells equations.
- Know about concept of plasma, its wave equation. Applications of plasma.

### **PHY-408**

#### **Atomic and Molecular Physics**



- Students got knowledge of basic quantum numbers.
- Will got knowledge of vibrational, rotational and electronic spectra and its applications.
- Learn fundamentals of LASERs and MASERs.

## **Papers in II semester**

### **PHY-409**

#### **General Condensed Matter Physics**

- Know about basic crystal structures, its applications.
- Know how X-rays are interacted with different materials.
- Learn thermal different properties of materials and its applications.

### **PHY-410**

#### **General Nuclear Physics**

- Students are able to understand basic nature of nucleus. How it is binded. What are the applications of semi empirical formula?
- Know about different nuclear models.
- They understand particle accelerator and its applications.

### **PHY-411 A1**

#### **8086 Microprocessor and Interfacing**

- Basic overview of microprocessor structure, microcomputer, their necessary components.
- They understand simple program, memory interfacing and input output interfacing.

### **PHY-412 A2**

#### **Microwaves**

- Students are able to understand detail basic of microwaves as well as basic equation related with microwaves.
- Obtain knowledge of microwave generators for production of microwaves and microwave measurement and related applications in various fields.

### **PHY-413**

#### **Numerical Methods in Physics**

- Are able to solve linear and non linear equations with the help of different numerical methods.
- Know about different fitting techniques.
- Got knowledge of solving first order and second order differential equations.
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### **PHY-421 E3**

#### **Industrial Instrumentation**

- Detail information about measurement, definition, calibration of devices.
- Got information about types of errors
- Detail knowledge of various errors, indicating , recording, display and terminal devices.

### **PHY-414 A3**

#### **Advanced sensor technology**

- Students got detail information, structure, internal arrangement of advanced sensor
- ii)Sensor technology methods.

### **PHY-415 A4**

### **Microcontroller**

- Got knowledge of 8051 microcontroller structure, block diagram, internal structure.
- Detail study of various operations related with logical, arithmetic operations.
- Detail information about jump and call instruction as well as application related with 8051 microcontroller.

## **DEPARTMENT OF MATHEMATICS**

### **Course Outcome: B. Sc. MATHEMATICS**

### **Differential and Integral Calculus**

After completing the course, students will able to

- Verify the values of limit of a function at a point using the definition of a limit.
- Students will be familiar with the techniques of integration and differentiation of function with real variables
- Identify and apply the intermediate value thm, Mean value theorem and L'Hospital's rule.
- Student will be able to understand the concept of divergence, curl, gradient and it's applications

### **Differential Equations**

After completing the course, students will able to

- Identify types of differential equations and solve differential equations such as Exact, homogeneous, non-homogeneous, and linear and Bernoulli differential equations etc.
- Understand homogenous linear equation with constant coefficient and variable coefficient
- Find the solution of non homogenous first order differential equations.
- Find the solution of partial differential equations

### **Geometry**

After completing the course, students will able to

- Solve the problems of lines in three dimension, planes, spheres, and cylinders and how geometry is related to algebra by using their algebraic equations
- To understand geometrical terminology for plane, right line, sphere, cylinder and cone.
- Student will be able to find angle between two planes and to find length of perpendicular from a given point to a given line.
- Students are able to identify parallel and perpendicular lines

### **Number Theory**

After completing the course, students will able to

- Solve various problems on properties of integers and use the basic concepts of divisibility and their applications in basic algebra.
- Apply Euclid's algorithm and backwards substitution
- Understand the definitions of congruence's, residue classes and least residues
- Student knows the concepts addition and multiplication of integers modulo n.

## **Numerical Methods**

After completing the course, students will be able to

- Formulate and code a finite element method for any given set of partial differential equations.
- Solve the Ordinary differential equation by various methods.
- Learn how to find the Integration & Derivative by various methods.
- Learn how to find the roots of the equation by various methods.

## **Integral Transform and Partial differential Equations**

After completing the course, students will be able to

- Learn the methods and properties of Laplace transform and Inverse Laplace Transform, apply them to solve Linear Differential equations.
- Know the difference between linear and nonlinear partial differential equations.
- Solve the linear and nonlinear partial differential equation by various methods like Lagrange's, Charpit's, Jacobi's, Monge's Method.

## **Mechanics**

After completing the course, students will be able to

- Know what is projectile and motion of projectile.
- Understand the concepts particle, rigid body, force, equilibrium etc.
- know the differential and pedal equations of central orbits
- Find the components of velocity and acceleration in a given direction.
- Follow the concepts momentum, angular momentum, work, energy and points functions in mechanics.

## **Abstract Algebra**

After completing the course, students will be able to

- Identify the various algebraic structures with their corresponding binary operations.
- Generalize the groups on the basis of their orders, elements, order of elements and group relations.
- Compare two groups of same orders on the basis of isomorphism Criteria.
- Compute the possible subgroups of given group of specific orders and will recognize them.

## **Real Analysis**

After completing the course, students will be able to

- Understand the concept of series of real numbers, convergence and Divergence.
- Understand the definition of Metric Space and continuous function on metric space and difference between open sets and closed sets.
- Define Riemann integral and its properties and also Fourier Series and its application

## **Ordinary Differential Equations**

After completing the course, students will be able to

- Students are able to find the solution of linear differential equation of first and second order.

- Students understand the initial value problem and its solutions.
- Students know the concept Wronskian of solution.
- Students can find singular point and regular singular point of the differential equation

### **Course Outcome :M.Sc. Mathematics**

#### **Abstract Algebra**

After completing the course, students will able to

- Assess properties implied by the definitions of group
- Use various canonical types of groups including cyclic groups and groups of permutations.
- Students evaluate basis and dimension of vector spaces.
- Students understand Galois Theory
- Analyze and demonstrate examples of subgroups, normal subgroups and quotient groups
- Use various theorems on “Sylow theorems” to identifying the whole structure of group of given order.

#### **Real Analysis**

After completing the course, students will able to

- Understand basic theorem on lebesguemeasure
- Understand basic theory of measurable set, measurable functions, measurability
- Determine the Riemann integrability.
- demonstrate the ability to apply analytical and theoretical skills to model and solve the problems based on measure spaces

#### **Topology**

After completing the course, students will able to

- Understand various basic topologies
- Understand the core ideas of countability and uncountability
- Understand the theory of compactness, connectedness and completeness.
- Understand the hereditary topological properties.
- Understand the theorems on normal spaces, regular spaces and relation between them

#### **Complex Analysis**

After completing the course, students will able to

- Analyze sequence and series of analytic functions and types of convergence
- Represent complex numbers pictorially and geometrically.
- Apply concept and consequences of analyticity and C-R- equations.
- Compute complex contour integrals and applying the Cauchy's integral in various versions.

#### **Differential Equations**

After completing the course, students will able to

- Understand Linearly Dependence or Independence of functions by using the Wronskian of the functions.
- Solve Simple Harmonic Motion Problems and Damped Motions problems.
- Understand the concept of Existence and Uniqueness of solutions.
- Solve the Initial value problems and Boundary value problems

## **Functional Analysis**

After completing the course, students will be able to

- Treat the vector spaces which have the additional property of being topological spaces.
- Intimate relationship between analysis and geometry should become apparent at the end of this course.
- Know normed linear spaces and Banach spaces.
- Define inner-product spaces and solve the problems based on it

## **Partial Differential Equations**

After completing the course, students will be able to

- Students understand Mean value theorems, Green's Theorem and Poisson's Equation. .
- Students can find solution of Heat equation and Wave equation.
- Students know the Burger Equation

## **Numerical analysis**

After completing the course, students will be able to

- Solve the Ordinary differential equation by various methods.
- Learn how to find the Integration & Derivative by various methods.
- To find the roots of the equation by various methods
- Know the Numerical Differentiation and Numerical Integration.
- Apply the interpolation methods for solving the problems numerically

## **Linear Integral Equations**

After completing the course, students will be able to

- Distinguish between pointwise and uniform convergence.
- Find the derivatives of higher order.
- Identify whether the given kernel is symmetric or separable kernel.

## **Mechanics**

After completing the course, students will be able to

- Know the concepts of generalized co-ordinates and generalized momentum.
- Solve the problems on functional
- Understand the planar and spatial motion of a rigid body.
- Understand the motion of a mechanical system using Lagrange- Hamiltonian Formulae

## **Operation Research**

After completing the course, students will be able to

- Formulate and model a LPP from a word problem and solve them graphically in 2-D
- Modify a primal problem and use the LPP to identify the new solution.
- Understand basic notions like feasibility, infeasibility, basic solutions, unbounded solution set etc

## **Lattice Theory**

After completing the course, students will be able to

- Acquire knowledge of fundamental notions from lattice theory and from properties of lattice theory.
- Develop ability to solve individually and creatively advanced problems of lattice theory and also problems connected with its applications to mathematics.

## **MatLabProgramming**

After completing the course, students will able to

- Perform and evaluate algebraic and trigonometric operations using built-in functions.
- Manipulate vectors and matrices, use matrix indexing, and determine matrix dimensions.
- Create and evaluate x-y plots and subplots suitable for technical presentation.
- Create, test, and execute user-defined functions and sub-functions  
Create function input validation.
- Distinguish between the different MATLAB 'data types'  
Create and manipulate Structures and Arrays

## **DEPARTMENT OF ZOOLOGY**

### **Course based Outcomes**

#### ***Cell Biology***

- They understand the basic unit of life and its components along with its function and coordination among the cells
- They know the histological techniques of making slides of tissues, staining them with different dyes
- Gain the knowledge of DNA and RNA
- After first Semester students are aware of the basic structure and different parts of the Microscope, their use, how to handle it, focus it.
- Knowledge of Simple Microscope, Compound Microscope, Light Microscope, Phase Contrast Microscope and Electron Microscope is gained by students
- They are also imparted with the knowledge of different types of cancer, its types, causes, Preventive measures and its cure

#### ***Protozoa to Annelida and Arthropoda to Echinodermata***

- They acquire the knowledge of all the invertebrates and their biodiversity in detail
- They grasp the small microscopic animals like protozoa, their evolution and phylogeny
- They yield the knowledge of some Parasitic protozoa and Arthropoda, their structure and their diseases with preventive measures and its cure
- They harvest the knowledge of different molluscan animals, their shells, use of the shells in different industries and ornaments

#### ***Genetics I and II***

- They gain knowledge of basic concepts of genetics, genes and the Laws of Mendel
- They come by with the basics of genetic disorders, gene mutation and its causes and some inborn diseases caused by genes in adults and infants
- They also come across with the cross breeding in plants and interbreeding between different species in animals
- They clinch up with the DNA structure and genetic code, protein synthesis, negative feedback mechanism and how Information is stored on DNA

#### ***Vertebrate Zoology***

- They get cleared basic differences between vertebrates and invertebrates (Animals with backbone or vertebral column and without backbone or spine), their classification and behavior
- They understand the importance of all the five classes of vertebrata viz. Pisces, Amphibia, Aves, Reptilia and Mammalia
- They get keen ideas of the organs of the Class Mammalia, also they understand the systems of Mammalia and their function, functions of organs and their diseases and cure
- They get expertise in the information of extinct animals like fishes, for Example Super class Agnatha which includes all the extinct fishes from the formation of earth till today.

### ***Animal Physiology***

- Students know that when we intake food it is digested, but how it is digested, its details comes into light in this study
- They have grip on the structure of the different organs of animals, their systems, functioning of the systems and coordination between the different organs in one system
- They are empowered with the knowledge of their own body like respiration, digestion, reproduction and so on.

### ***Biochemistry and Endocrinology***

- Human body performs N number of functions, but for each function there is need of some command and instructions which are given by Hormones produced by pituitary gland and controlled by Hypothalamus, this makes the students Pioneer in the practical happenings in their own body and other animals
- They are able to judge and know the functioning of the their own body and other animals
- They enrich with the different endocrine and exocrine glands, their structure, function, their diseases and deficiency, cause and cure
- Thorough cognition of enzymes, proteins, lipids, fats, carbohydrates, sugars, cholesterol, their role in functioning the body and diseases related to them and their cure and prevention

### ***Ecology and Evolution***

- First students come to know the meaning of the small word Ecology which has a vast widespread importance
- They understand the different Ecological Niches
- They are able to realize the Natural Selection Process which is continuously going on the earth's surface
- Evolution of human from the very single cell bacteria is understood here
- They have thorough knowledge of Extinction of Species, Natural Selection and Evolution

### ***Parasitic Protozoa and Helminthes I and II***

- Students are aware of most of the diseases in the earth's surface, but here they acquire knowledge the parasites which are spreading these diseases
- From cough and cold to Malaria, Typhoid, Kala azar, AIDS and other various disease spread by protozoa and helminth parasite are expertise by students

- Students have a detail knowledge of the parasites, its structure, its role in spreading disease, its precautive measures and its cure.

## **DEPARTMENT OF MICROBIOLOGY**

### **COURSE OUTCOME**

#### **B. Sc. I**

##### **Fundamentals of microbiology (P I and PIII)**

- Study of types of microorganism
- We study taxonomy of microorganism
- Identification of micro organism on the basis of habitat
- Basic study of virus
- Study of characteristics of all types of microorganism
- Study of microscope which is used to see micro organism not seen by naked eyes

##### **General microbiology (P II and P III)**

- Study of identification of micro organism on by using various method of staining
- Study of production of all types of media which is useful for growth of microorganism
- Study of cultivation of anaerobes
- Study of various method of sterilization
- Study of method required in amplification of microorganism
- Role of micro organism in our life

##### **Cytology and general microbiology (P IV and P VI)**

- Study of microbial cell and cell organelles
- With the help of cytology we can study bacterial cell division
- Study of nutritional requirements to growth of microbial cell
- Study of bacterial growth curve and various aspects
- Study of water purification and degradation of waste

##### **Basic biochemistry and microbial physiology (P V and P VI)**

- Study of biomolecules i.e. carbohydrate, lipid, protein etc
- Study of classification of biomolecules
- Study of factors affect on the biomolecules
- Study of various test to detect the biomolecule of present substance
- Study of photo synthesis of bacterial and uptake of Nutrient



## **B.Sc. II**

### **Environmental microbiology ( P VII and P IX)**

- Study of hazardous waste bioremediation
- Study of aquatic microbiology
- We can check water quality in various aspects
- Study of waste water treatment by using microbes
- Certain bacteria can help in cleaning the oil spills
- Microbiologist check factory waste which can cause pollution of air or water thus increasing rate of poisoning or disease treatment

### **Immunology ( P VIII and P X)**

- Study of host defence mechanism
- Study of antigen i.e. foreign particle which causes disease
- Study of antigen -antibody reaction i.e. mechanism of killing of microorganism
- Study of vaccine and preparation method
- Study of MHC molecules which is useful in graft rejection
- Diagnosis of disease by various tests

### **Applied microbiology ( P XI and P XIII).**

- Study of dairy microbiology and production of dairy product
- Study of food microbiology and food poisoning by microorganism
- Study of food borne disease
- Study of production of fermented product and probiotics
- Study of mushroom cultivation
- Methods of preservation of food

### **Clinical microbiology, ( P XII and P XIV)**

- Study of human disease caused by bacteria with all dimension and diagnosis method
- Study of all types of viruses which cause disease to human
- Study of enteric bacteria and spirochetes
- Study of oncogenic virus may cause cancer
- Study of protozoa , fungi which cause disease to human and diagnosis method

## **B.sc. III**

### **Microbial genetics (P XV and P XVII)**

- Study of DNA and RNA of microorganism
- Study of molecular properties of DNA and method of replication
- Study of gene expression i.e. protein synthesis
- Study of genetic code and features
- Regulation of gene expression in microbes
- Study of gene mutation and mutant
- Study of bacterial recombination

**Microbial metabolism (P XVI and P XVIII)**

- Study of production of enzyme
- Study of types of enzyme and various inhibition method
- Study of factors affect on enzyme
- Commercial use of enzyme in various industries
- Study of microbial metabolism
- Study of respiration
- Study of biosynthesis of nucleotides

**Recombinant DNA technology, (P XIX and P XXI)**

- Production of genetically modified organisms
- Study of various techniques use in recombinant DNA technology
- Role of microbial DNA in production of GMO
- Study of production of GM crop i.e. pesticide resistant
- RDT help in medical i.e. gene therapy
- RDT help to change genetics of animal or any organism which we required by using various techniques

**Industrial microbiology (P XX and P XXII)**

- Study of production of biopolymer, biosurfactant, biofloculant
- Study of production of vitamins, ethanol,
- Study of production of biofilm
- Study of recovery of material
- Study of production of biofuel
- Study of treatment of organic waste
- Study of various micro organism used in industry

**DEPARTMENT OF COMPUTER SCIENCE****Course outcomes****CSC01 – Computer Fundamentals**

- Student will be able to understand the Basics of computer systems
- The knowledge of software and hardware details and their application

### **CSC02 – Digital Electronics**

- Student will be able to understand the Electronic parts of computer systems
- The knowledge of functioning of hardware enables student understanding.

### **CSC04- Operating system I**

- Student will be able to understand the Commutation between system and user.
- The knowledge of processor, memory, information and I/O Devices.

### **CSC05 – Programming in C**

- Student will be able to understand the programming skills.
- Student can be able to develop programs.

### **CSC07- Advance C Programming**

- Student will be able to understand the programming skills about large and Complex programs.
- Student can be able to develop small application software's.

### **CSC08- Data Structure**

- Student will be able to understand the data, its types and their applications in program development.
- Student can be able to data for different applications.

### **CS011- Programming in CPP**

- Student will be able to understand the Object Oriented programming skills.
- Student can be able to develop programs.

### **CSC012- DBMS using SQL**

- Student will be able to understand the Data Base Management skills like SQL.
- Student can be able to use DBMS as back end for developing programs.

### **CS015- Software Engineering**

- Student will be able to understand the basics of Software Development.
- Student can be able to develop different application programs.

### **CS016- Web Designing**

- Student will be able to understand the basics web Development.
- Student can be able to develop different web pages, small scale websites.

### **CS019- Data communication and Networking**

- Student will be able to understand the basics of Communication between one or more Computers.
- Student can be able to develop knowledge about networking.

### **CS020- E- Commerce**

- Student will be able to understand the basics of Electronic Commerce.
- Student can be able to understand different laws of IT and Cyber Crime.

## **B.Sc.(Computer science)**

### **I sem**

#### **CSC101- T Computer Fundamentals**

- Student will be able to understand the Basics of computer systems
- The knowledge of software and hardware details and their application

#### **CSC102- T Digital Electronics**

- Student will be able to understand the Electronic parts of computer systems
- The knowledge of functioning of hardware enables student understanding.

#### **CSC103- T Microprocessor I**

- Student will be able to understand the microprocessor.
- Student can be able to develop codes for hardware of system.

#### **CSC104- T C Programming I**

- Student will be able to understand the programming skills.
- Student can be able to develop programs.

#### **CSC105- T Communication Skill I**

- Student will be able to understand the Inter personal Communication skills.
- Student can be able to develop its behavioral skills.

#### **CSC106- T Mathematical Foundation**

- Student will be able to understand the mathematical skills.
- Student can be able to understand uses of mathematical equation for problem solving.

## **II sem**

### **CS201- T      Data structure**

- Student will be able to understand the data, its types and their applications in program development.
- Student can be able to data for different applications.

### **CS202- T      Operating system**

- Student will be able to understand the Commutation between system and user.
- The knowledge of processor, memory, information and I/O Devices.

### **CS203- T      Microprocessor II**

- Student will be able to understand the microprocessor 8085, 8086.
- Student can be able to develop codes for hardware of system.

### **CS204- T      C Programming II**

- Student will be able to understand the programming skills about large and Complex programs.
- Student can be able to develop small application software's.

### **CS205- T      Communication Skill II**

- Student will be able to understand the Inter personal Communication skills.
- Student can be able to develop its behavioral skills.

### **CS206- T      Numerical Computation methods**

- Student will be able to understand the mathematical Concepts.
- Student can be able to understand uses of mathematical applications for problem solving.

## **III-Sem**

### **CS301-T      Advance Data structure**

- Student will be able to understand the algorithms for data handling.
- Student can be able to use different algorithms for different applications.

### **CS302-T      Unix Operating system**

- Student will be able to understand the network related operating concepts.
- The knowledge of browsers and their use for different categories of users.

**CS303-T      PC Maintenance**

- Student will be able to understand the concepts of hardware and software.
- The knowledge of solving PC parts problems.

**CS304-T      Programming in CPP**

- Student will be able to understand the Object Oriented programming skills.
- Student can be able to develop programs.

**CS305-T      Database Management System**

- Student will be able to understand the Data Base Management skills like Ms-Access.
- Student can be able to use DBMS as back end for developing programs.

**CS306-T      Stastical Methods**

- Student will be able to understand the stastical Concepts.
- Student can be able to understand uses of Stastical applications for problem solving.

**IV-Sem****CS401-T      Software Engineering**

- Student will be able to understand the basics of Software Development.
- Student can be able to develop different application programs.

**CS402-T      Fedora**

- Student will be able to understand the network related operating concepts with controlled environment.
- The knowledge of browsers and their use for different categories of users.

**CS403-T      Basics of Networking**

- Student will be able to understand the basics of Communication between one or more Computers.
- Student can be able to develop LAN networks for laboratories.

**CS404-T      Core Java**

- Student will be able to understand the Object Oriented programming skills.
- Student can be able to develop programs.

**CS405-T      Advance DBMS**

- Student will be able to understand the Data Base Management skills like SQL.
- Student can be able to use DBMS as back end for developing programs.

**CS406-T      Web Fundamental**

- Student will be able to understand the web programming skills.
- Student can be able to develop web pages and websites.

**V- SEM****CS501-T      Software Cost Estimation**

- Student will be able to understand the basics of cost measurement for software.
- Student can be able to find cost for different application programs.

**CS502- T      Basic s of Android OS**

- Student will be able to understand the programming skills.
- Student can be able to develop Apps for mobiles.

**CS503-T      Core Java II**

- Student will be able to understand the Object Oriented programming skills.
- Student can be able to develop programs for system and application programs.

**CS504-T      Basics of Computer Graphics**

- Student will be able to understand the graphical skills related to I/O devices.
- Student can be able to develop programs for geometrical applications.

**CS505-T      Beginner's Prog.with PHP**

- Student will be able to understand the Object Oriented programming skills.
- Student can be able to develop programs for system and application programs.

**CS506-T      Basics of ASP.net**

- Student will be able to understand the Object Oriented programming skills.
- Student can be able to develop web programs for system and application software's.

**VI -SEM****CS601-T      Software Quality & Testing**

- Student will be able to understand the maintaining of quality concepts for software.
- Student can be able to do testing for software's.

**CS602-T      Android application development**

- Student will be able to understand the programming skills for app development.
- Student can be able to develop Apps for mobiles.

**CS603-T      Theory of Computation**

- Student will be able to understand the processing states of machines.
- Student can be able to develop grammars for programming languages.

**CS604-T      Adv. Computer Graphics**

- Student will be able to understand the graphical skills related to I/O devices.
- Student can be able to develop programs for geometrical applications.

**CS605-T      Advance Prog.with PHP**

- Student will be able to understand the Object Oriented programming skills.
- Student can be able to develop programs for system and application programs.

**CS606-T      E- Commerce**

- Student will be able to understand the basics of Electronic Commerce.  
Student can be able to understand different laws of IT and Cyber Crime.

**COURSE OUTCOME OF BCA (Sci. )**

**I-Sem**

**CA101- T      Computer Fundamentals**

- Student will be able to understand the Basics of computer systems
- The knowledge of software and hardware details and their application

**CA102- T      Digital Electronics**

- Student will be able to understand the Electronic parts of computer systems
- The knowledge of functioning of hardware enables student understanding.

**CA103- T      Microprocessor I**

- Student will be able to understand the microprocessor.
- Student can be able to develop codes for hardware of system.



**CA104- T     C Programming I**

- Student will be able to understand the programming skills.
- Student can be able to develop programs.

**CA105- T     Communication Skill I**

- Student will be able to understand the Inter personal Communication skills.
- Student can be able to develop its behavioral skills.

**CA106- T     Mathematical Foundation**

- Student will be able to understand the mathematical skills.
- Student can be able to understand uses of mathematical equation for problem solving.

**II sem****CA201- T     Data structure**

- Student will be able to understand the data, its types and their applications in program development.
- Student can be able to data for different applications.

**CA202- T     Operating system**

- Student will be able to understand the Commutation between system and user.
- The knowledge of processor, memory, information and I/O Devices.

**CA203- T     IT Tools and web Designing I**

- Student will be able to understand the Web Development.
- Student can be able to develop codes for system.

**CA204- T     C Programming II**

- Student will be able to understand the programming skills about large and Complex programs.
- Student can be able to develop small application software's.

**CA205- T     Communication Skill II**

- Student will be able to understand the Inter personal Communication skills.
- Student can be able to develop its behavioral skills.

**CA206- T     Numerical Computation methods**

- Student will be able to understand the mathematical Concepts.
- Student can be able to understand uses of mathematical applications for problem solving.

### **III-Sem**

#### **CA301-T      Database Management System**

- Student will be able to understand the Data Base Management skills like Ms-Access.
- Student can be able to use DBMS as back end for developing programs.

#### **CA302-T      Mobile Maintenance I**

- Student will be able to understand the mobile Faults & repairing.
- The knowledge of solving Mobile parts problems.

#### **CA303-T      Principles of management**

- Student will be able to understand the concepts of management.
- The knowledge of laws for sales and service.

#### **CA304-T      Programming in CPP**

- Student will be able to understand the Object Oriented programming skills.
- Student can be able to develop programs.

#### **CA305-T      Personality Development**

- Student will be able to understand the concepts for self development.
  - Student can be able to use behavioral skills.

#### **CA306-T      Stastical Methods**

- Student will be able to understand the stastical Concepts.
- Student can be able to understand uses of Stastical applications for problem solving.

### **IV-Sem**

#### **CA401-T      Advance DBMS**

- Student will be able to understand the Data Base Management skills like SQL.
- Student can be able to use DBMS as back end for developing programs.

#### **CA402-T      Mobile Maintenance II**

- Student will be able to understand the mobile Faults & repairing.
- The knowledge of solving Mobile parts problems.

**CA403-T      Software Project management**

- Student will be able to understand the concepts of project management
- Student can be able to manage Different projects.

**CA404-T      Core Java**

- Student will be able to understand the Object Oriented programming skills.
- Student can be able to develop programs.

**CA405-T      Aptitude & logical Reasoning**

- Student will be able to think logically.
- Student can be able to use skills to solve basic problems.

**CA406-T      Linear Programming Problem**

- Student will be able to understand the linear programming skills.
- Student can be able to understand profit and loss skills.

**V- SEM**

**CA501-T      Software Project management II**

- Student will be able to understand the concepts of project management
- Student can be able to manage Different projects.

**CA502- T      Computer Graphics I**

- Student will be able to understand the graphical skills.
- Student can be able to develop programs for geometrical applications.

**CA503-T      Core Java II**

- Student will be able to understand the Object Oriented programming skills.
- Student can be able to develop programs for system and application programs.

**CA504-T      Data ware housing**

- Student will be able to understand the storage management using soft skills.
- Student can be able to manage data storage for large projects.

**CA505-T      Data communication Networking**

- Student will be able to understand the networking skills.
- Student can be able to develop LAN system in labs.

#### **CA506-T      ASP.net I**

- Student will be able to understand the Web programming skills.
- Student can be able to develop web programs for system and application software's.

### **VI -SEM**

#### **CA601-T      Software Testing and Quality Insurance**

- Student will be able to understand the maintaining of quality concepts for software.
- Student can be able to do testing for software's.

#### **CA602-T      Computer Graphics II**

- Student will be able to understand the graphical programming skills.
- Student can be able to develop Solutions for visualizations of contents.

#### **CA603-T      Java Server pages JSP**

- Student will be able to understand the web site creation process.
- Student can be able to develop small scaled web sites.

#### **CA604-T      Data Mining**

- Student will be able to understand the data storage problems.
- Student can be able to develop programs for mining the data.

#### **CA605-T      Network Security**

- Student will be able to understand the law related skills.
- Student can be able to develop programs to solve security problems in network.

#### **CA608-T      Asp.net II**

- Student will be able to understand the advance programming skills.
- Student can be able to understand different network issues.

# **M.Sc. (Computer science)**

## **COURSE OUTCOME**

### **Sem I**

#### **CSC401- Advance JAVA**

- Student will be able to understand the Object Oriented programming skills.
- Student can be able to develop programs for system and application programs.

#### **CSC402- Neural network**

- Student will be able to understand the Networking methods used in programming.
- Student can be able to develop programs for system and application programs.

#### **CSC403- Digital signal processing**

- Student will be able to understand the analog and digital programming skills.
- Student can be able to develop programs for system and application programs.

#### **CSC404- Advance Operating system**

- Student will be able to understand the Commutation between system and user.
- The knowledge of processor, memory, information and I/O Devices.

### **Sem II**

#### **CSC405- Data Structure and Analysis of algorithms**

- Student will be able to understand the algorithms for data handling.
- Student can be able to use different algorithms for different applications.

#### **CSC406- Adv neural N/W and Fuzzy Systems**

- Student will be able to understand the advanced Networking methods used in programming.
- Student can be able to develop programs for system and application programs.

#### **CSC407- Image Processing**

- Student will be able to understand the analog and digital programming skills.
- Student can be able to develop programs for system and application for solving problems of society.

#### **CSC408- Parallel Computing**

- Student will be able to understand the use of more system for Complex applications.
- Student can be able to develop programs for system and application programs.

### **Sem – III**

#### **CSC501- Java Network Programming**

- Student will be able to understand the Object Oriented programming skills.
- Student can be able to develop programs for system and application programs.

#### **CSC502- Adv. Software Engineering & technology**

- Student will be able to understand the Software programming skills.
- Student can be able to develop programs for system and application programs.

#### **CSC503-Computer Vision**

- Student will be able to understand the Visualization concepts for programming skills.
- Student can be able to develop programs for complex problems.

#### **CSC504-Biometric Techniques (Ele. I) CSC427**

- Student will be able to understand the human traits and their use in programming skills.
- Student can be able to develop programs for system and application for solving problems of society.

#### **CSC441- Service Course - Intro. To MATLAB**

- Student will be able to understand the programming tool.
- Student can be able to develop programs for system and application.

### **Sem – IV**

#### **CSC505- Pattern Recantation**

- Student will be able to understand the pattern concepts for programming skills.
- Student can be able to develop programs for complex problems.

#### **CSC506- Data Mining (CSC435) ele. II**

- Student will be able to understand the data mining concepts.
- Student can be able to develop programs for storage problems.

#### **CSC557- Major Project**

- Student will be able to understand the software development process.

- Student can be able to develop Software programs for system and application problems.

#### **CSC558- Seminar**

- Student will be able to understand the presentation skills.

Student can be able to develop teaching aids for teaching and learning process.

### **DEPARTMENT OF COMMERCE** **Course Outcomes**

#### **1. Financial Accounting**

To develop conceptual understanding of fundamentals of financial accounting system and to impart skills in accounting for various kinds of business transactions. The course also aims at acquainting the emerging issues with regards to changing scenario in the world of business and accounting system.

#### **2. Business Mathematics and Statistics**

To impart knowledge in order to improve Logical Reasoning, Ability & Interpretation, Application of various statistical and Mathematical Tools and Techniques in making logical and scientific decisions in Business Operations.

#### **3. Business and Industrial Economics**

This course is meant to acquaint with the principles of Business Economics as are applicable in business.

#### **4. Computer Application in Business**

To provide computer skills and knowledge necessary for today's paradigm shift happening in the world of commerce. Understanding of usefulness of information technology tools for business operations.

#### **5. Entrepreneurship Development**

To understand and know the various schemes and initiative policies formulated by the government aims at instill confidence and encouragement steps in order to pave the way for better understanding.

### **Class B.com S.Y**

#### **1. Corporate Accounting**

To provide advanced knowledge about accountancy in prevailing subject. This course aids in carried out corporate world transaction and operations happening every day. By means of fundamental knowledge it excels tremendous interest in accountancy.

#### **2. Cost Accounting**

This course provides similar concepts regarding about basic knowledge of accounting, only in spite of recording various transactions this dealt with costing which essential for the industries and manufacturing unit.

### **3. I.T Application in Business**

To aims at better and greater knowledge about technology little more addition in existing skills taken away with such a huge excel in computer knowledge that, immense in commerce and business world. It sharpens different computer languages.

### **4. GST (Goods and Services Tax)**

In the changing scenario of taxation system this course aims at enhance ability about existing knowledge. It provides fruitful and indispensable reform happened in past so many years.

### **5. A) Financial Management**

To understand the financial concepts and methodologies related to finance, inculcate greater potential in the financial market in order to figure out unequivocal financial accuracy in great manner.

### **B) Human Resource Management**

This course dealt in process and various methods of human resource development and strategy to make over potential and excellent man powers in working field.

## **Class B.com T.Y**

### **1. Advanced Financial Accounting**

After studying this course students will be able to understand how to prepare final accounts of Banking and Insurance Companies and record the accounting transactions and events related to investment and departmental affairs. It also enhanced the skill of preparing final accounts in various sub sector of companies.

### **2. Management Accounting**

Management Accounting is an essential tool that enhances a manager's ability. This course is an introduction to the use of accounting information by managers for decision making, performance evaluation and control. The course objective is to increase understanding of the students about the concepts and techniques of management accounting. These issues will be addressed in the background of fast changing global market scenario.

### **3. Auditing**

This course aims at imparting knowledge about the principles and methods of auditing and its applications.

### **4. Business Regulatory Framework**

To acquaint students with basic Concepts, Terms, Provisions and Applications of Business Laws.



## **5. Computerized Accounting with GST**

To benefit the students to work with well-known accounting software e.g. Tally ERP.9

To enable students to process and record the business transactions and manage the accounts information using software.

To Equip students ‘‘know -how’’ of GST functionality using e.g. Tally software.

## **6. Rural Development and Agricultural Business**

This course aims at developing the understanding of students regarding the basic theoretical concepts of rural development and agribusiness for future entrepreneurial venture.

### **M. Com.**

### **Course Outcomes**

#### **I & II Semester**

- **Modern Management Practices**
- To learn managerial qualities and practices to enhance the decision making abilities of student.
- **Managerial Economics**
- Update the subject knowledge among the student at corporate level and its use in economic development of nation.
- **Coporate financial Accounting**
- The outcome of this course is to learn the issues and practices of corporate financial Accounting.
- **Business Environment**
- This course develops ability to understand the conceptual frame work of business environment and its application in decision making under uncertainty.
- **OrganisationalBehaviour and work culture**
- To enhance behavior at work place and work culture.
- **Advanced cost Accounting**
- This course provide theoretical as well as practical knowledge of cost accounting for enhancement of the skill of the students.
- **Tax planning , GST And Management.**
- To understand the basic skills of taxation to calculate the students with various Tax Planning
- measures and devices.
- **Marketing Management.**
- The objective of this course is to facilitate understanding the conceptual framework of Marketing and its application in decision making under environment constraints.

**Class: M.Com S.Y.**

### III & VI Semester

**1) Research Methodology**

To expose the students with research process data collection and analysis sampling report writing etc.

**2) Human Resource Planning and Development**

The objective of this course is to expose students to the human resource planning methodologies and the various aspects of HR practices.

**3) Business Legislation**

Update knowledge about different business legislation in practice.

**4) International Marketing**

To make the student understand the importance of international marketing entry strategies ,foreign market selection, product development and distribution.

**5) Quantitative Techniques**

The objective of this course to expose subject knowledge among students about statistical and mathematical analysis for research problem.

**6) Research Project**

The students must undertake the project work based on practical training in a business firm for the period of six weeks

**7) Securities Analysis**

Update the subject knowledge among the students at corporate level about securities and portfolio management.

**8) International Business**

The objective of this course is to expose student about international business its significance and basic knowledge.

### DEPARTMENT OF ENGLISH

B.A.I year Paper II, IV (Sem.I,II)

Paper (Course Title) Reading Literature.

Outcomes of the Paper II – Reading Literature, Sem. I, Sem. II

After detail study of the course Reading Literature for Sem. I and Semester II students will able to

- Understand the structure of sonnet, lyric and ode, different poetical types.
- Understand the structure and features of Shakespearian tragedy, comedy as well as comedies.
- Identify major features of different literary forms such as drama, novel and poetry.

- Explore the literary work, explore the characterization, the content of the text.
- Interpret texts with his own understanding.
- Understand the various aspects of the novel and drama.

B.A.II year  
English (Optional)  
Course (Paper No.V, VII)  
Literature in English (1550-1750)  
Semester III, IV

- Various forms of literature.
- Distinguish and analyze different literary forms like essay, mock epic, drama, novel.
- Multiple interpretations of the texts.

B.A.II year  
Paper No.VI, VIII (Course)  
Literature in English (1750-1900)  
Semester III and IV

- Understand the literary forms of poetry, Ballad, and romantic poetry, dramatic monologue, prose, play, novel in 18<sup>th</sup> and 19<sup>th</sup> century.
- Appreciate the poems by S.T. Coleridge and Robert Browning.
- Comment on the theme, styles, characterization of Oscar Wilde's play.
- Understand plot, setting, characters, country side dialect in the novel of Thomas Hardy.

B.A.III year (Optional English)  
Semester V, VI

The course of B.A.III year grouped into two sections. One is subsidiary and other is main. This subsidiary and main comprises of four papers to be studied in two semesters.

Paper No. IX and XIII  
Twentieth Century English Literature  
Semester-V

Outcome of the Course:  
Twentieth Century Eng. Lit. Paper IX, XIII

On successful study of the course the students will able to

- Understand how the literature of modern period relates to the important trends of 20<sup>th</sup> century.
- Appreciate poems by T.S. Eliot and W.B. Yeats with new insights.
- Comment on the theme of G.B.Shaw's plays, its subject matter, characters, plot and techniques.
- Comment on the theme of John Osborne's play.
- Understand plot, setting, characters, techniques in the novels of Kingsley Amis and D.H. Lawrence.

- To explore the multiple interpretations from the prescribed texts.

Paper X and XIV  
Introduction to Literary Criticism and Terms.  
Semester V and Semester VI

Outcome of the Course:  
Introduction to Literary Criticism and Terms  
Sem. V, VI Paper (Course) X, XIV

On successful completion of the course the students will be able to

- Identify and discuss the classical Greek critics of literature.
- Acquaint with the basic critical theories by Aristotle, Sir Philip Sidney, William Wordsworth and F.R. Leavis.
- Understand the text, tragedy, poetry conception of literature with critical insight.
- Learn the terms related to various genres of literature.
- Cultivate an understanding of major critical and interpretive methods.

Paper XI and XV  
Indian Writing in English  
Sem. V and VI

Outcome of the Course : Indian Writing in English Paper (Course) VI and XI

After successful completion of the course students will be able to

- Understands the background of Indian English literature.
- Critically appreciate the themes in the poems of Nissim Ezekiel and Arun Kolatakhar.
- Understands and evaluate the theme, plot, characters in the plays of Girish Karnad and Vijay Tendulkar.
- Understands the Indianness, Indian local setting, characters in the novels of Raja Rao and U.R. Anantmurthi.
- Understand the Indian Social reading, issues through prescribed texts.

Paper XII and XVI  
Project work on History of English Literature.

- Understand the background and development of English Literature.
- Select topic for project work.
- Understand the aspects of Research Methodology.
- Able to write a research paper.
- Understand the Trends, movements in English literature
- Face viva-voce examination related to Project Work.

M.A. English Programme  
Paper No. I Literature in English (1550-1798)

Semester I and Semester II

Outcome of the Course:

M.A.English Paper (Course) II  
Literature in English (1800-2000)

Sem.I, Sem. II

Outcome of the course:

After completion of the course students will be able to

- Understand the features of all the genres of literature.
- Understand the characteristics of Romantic poetry.
- Understand the features of modern poetry.
- Understand the features of Afro-American literature as well as Indian literature.

M.A. English (Paper III)  
Structure of Modern English

Sem.I,II

Outcomes of Structure of Modern English  
Paper (Course) III (Sem I,II)

On completion of the course students will be able to

- Understands the received pronunciation of English.
- Able to pronounce according to British English/American English.
- Understand the voice modulation, accent, intonation in the speech.
- Able to differentiate between acceptable and unacceptable English.
- Show proficiency in written English as well as spoken English.
- To analyze language according to structure of Modern English.

Paper (Course) IV  
Colonial and Post-Colonial Literature

Colonial and Post-Colonial Literature  
Paper –Course III – Sem.I, II

Outcomes:

On completion of the course students will be

- Understand the term imperialism, colonialism.
- Understand the theory of colonialism and post-colonialism.
- Interpret the literary text with multi-disciplinary approach.
- Relate the colonial experience shared by the different writers from different countries.
- Develop sensitization against Racism, slavery, exploitation etc.

M.A.English IInd year  
Paper No.V – Critical Theory

Sem.III and Sem. IV  
Paper V (Critical Theory) Sem. III, IV

Outcomes:

On completion of the course students will be able to

- Demonstrate an appropriate level of knowledge of literary theory and literature.
- Appreciate and interpret literary text with multidisciplinary approach.
- Understand the socio-political, cultural life of contemporary period.
- Examine theories of feminism and nativison
- Understand the modernism and post modernism theories.

Paper (Course) VI, Sem.III, IV  
Course: Indian Writing in English

Outcomes:

On successful completion of the course the students will be able to

- Comprehend themes in Indian English Poetry, Drama and Novel
- Enhance literary and linguistics competition.
- Create literary sensibility and aesthetic response to literary genre.
- Develop sensitization against social evils, gender bias, caste bias and discrimination.

Paper VII (Course)  
English Language Teaching Sem.II, IV

Outcomes:

On successful completion of the course students will be able to understand.

- The learning process and nature and structure of language.
- Understand different methods of teaching of English
- Use of ICT in teaching of English.
- Understand the basic knowledge, application of language and English Grammar in classroom.

Paper No.VIII  
Major Form Fiction

M.A. English Programme  
Programme Specific outcomes

M.A. English

After the completion of M.A. English programme students will b able to

- Demonstrate an appropriate level of knowledge of literature, literary history and literary theory.
- Appreciate and interpret the literary texts.
- Develop the critical insights by using multidisciplinary approach
- Develop the sensitization against social evils, gender bias, caste bias, discrimination.
- Generate theoretical informed interpretation of texts and question for scholarly inquiry.
- Show proficiency in written English and spoken English.
- Exhibit high level proficiency in all the fields of life such as media, film, creative writing, research etc.
- Critical insights, intellectual insights with multidisciplinary approach, cultural studies will help the students to know the society in depth.

## **DEPARTMENT OF HINDI**

### **B.A.HINDI**

#### **सामान्यहिंदी (SL.II)(बी.ए.,बी.कॉम.,बी.एस्सी.)**

- प्रस्तुत अध्ययन से मानवीय संवेदनाओं का विकास होता है और इंसानियत की भावना को बढ़ावा मिलता है।
- हिंदी कहानी साहित्य का परिचय मिलकर हिंदी के प्रमुख लेखक, उनकी लेखन विशेषताओं का परिचय प्राप्त होता है।
- छात्रों के भाषा कौशल का विकास होता है।
- छात्रों में हिंदी भाषा के महत्व के साथ ही व्याकरणिक सजगता निर्माण होती है।

#### **प्रश्नपत्र 1 - उपन्यास साहित्य**

- छात्रों की साहित्यिक अभिरुचि का विकास और साहित्य आस्वादन का आनंद देना।
- इंसानी जीवन मूल्यों का विकास और उनके प्रति आस्था निर्माण करना।
- उपन्यास साहित्य की बारीकियों से परिचित करना और हिंदी उपन्यास साहित्य की पहचान करना।
- लेखन और भाषा कौशल का विकास करना।

#### **प्रश्नपत्र 2 - नाटक साहित्य**

- हिंदी नाटकों और उसके बहाने साहित्य में नाट्य परंपराएं, हिंदी रंगमंच, तथा व्यावसायिक नाटकों से परिचित करना।
- विजय पर्व नाटक द्वारा अशोक की जिंदगी का संघर्ष, युवराज से राजगद्दी और फिर राजगद्दी से निर्वाण तक का सफर, युद्ध की अपेक्षा शांति पर अधिक विश्वास करना छात्रों में संघर्ष, रक्तपात, लड़ाई की अपेक्षा शांति पूर्ण संस्कारों को दृढ़ करता है।

- पाठ्यक्रमका प्रेमचंद द्वारा लिखित होरी नाटक किसानों की दयनीय दशा, जमीन से जुड़ना, पारिवारिक संघर्ष आदिका परिचय देता है। पहले से ही किसान जीवन से जुड़े छात्र अपने आसपास नाटक के इन पात्रों का एहसास करते हैं। पढ़ाई के महत्व को समझते हैं और उनमें शिक्षा द्वारा आत्मनिर्भर बनाने की प्रेरणा निर्माण होती है।
- 'अलख आजादी की' नामक नाटक भारतीय स्वतंत्रता कालेखा-जोखा प्रस्तुत करता है। अपने देश की वास्तविकता को छात्र भली-भांति समझ जाता है। अपना परिवार गांव और देश के प्रति छात्रों में प्रेम राष्ट्रभक्तिका विकास कराने का काम नाटक द्वारा होता है।
- नाटक साहित्य के प्रश्नपत्र का अध्ययन करने के पश्चात् हिंदी नाटक साहित्य की बारीकियों को पहचानने की क्षमता का विकास होता है। संवेदनाओं के साथ ही नाटक का आस्वादन एवं नाटक की आलोचना करने की दृष्टि का छात्रों में विकास होता है।

### प्रश्नपत्र 3 - हिंदी गद्य साहित्य

- हिंदी कहानी और व्यंग्य साहित्य का अध्ययन करना।
- इंसानी जीवन मूल्यों और संवेदनाओं का विकास और उनके प्रति आस्था निर्माण करना।
- साहित्य आस्वादन और मूल्यांकन क्षमता का विकास करना।
- हिंदी साहित्य की गद्य विधाओं का परिचय करवाना।

### प्रश्नपत्र 4 - एकांकी साहित्य

- नाटक की तुलना में एकांकी छोटी विधा है। छात्र प्रथम सत्र में नाटकों का और द्वितीय सत्र में एकांकी का अध्ययन करते हैं और दोनों में साम्य तथा भेद समझ जाते हैं।
- हिंदी एकांकी का उद्भव और विकास से छात्र परिचित होते हैं।
- एकांकिका के माध्यम से मानवीय संवेदनाओं का अध्ययन तथा मूल्यों से छात्र परिचित हो जाते हैं। सामान्य एवं साधारण घटनाओं का मूल्य वे समझ जाते हैं।
- 'एकांकीन ए पुराने'  
पुस्तक के अंतर्गत पांच प्रतिनिधि एकांकी का पाठ्यक्रम के अंतर्गत निर्धारित हैं। इनके द्वारा ऐतिहासिक और समस्यामूलक एकांकीओं से छात्रों का परिचय होता है।
- 'प्रतिनिधि महिला एकांकी'  
हिंदी महिला एकांकीकारों की एकांकियों का प्रतिनिधित्व करती हैं। महिलाओं के जीवन की वास्तविकता का परिचय कराकर उनके प्रति संवेदनाओं का भाव जागृत करता है। छात्र अपने व्यक्तिगत जीवन में भी महिलाओं का सम्मान करना सीख जाते हैं।

सामान्य हिंदी (SL.III & IV)(बी.ए., बी.कॉम., बी.एस्सी.)



- साहित्य आस्वादन अभिरुचिका परिसंस्कार करना।
- जीवनमूल्यों के प्रति आस्थानिर्माण करना।
- हिंदी के आधुनिक गद्य साहित्य की प्रतिनिधिक रचनाओं का परिचय करना।
- अत्याधुनिक इलेक्ट्रॉनिक माध्यमों का परिचय करना।
- व्यावहारिक प्रयोजनमूलक तथा संप्रेषणमूलक व्यवसायिक हिंदी भाषा से विद्यार्थी परिचित हो और रोजमर्रा की जिंदगी में अपनी मांगों को पूरा करने में सक्षम बना पाए यह अपेक्षा भी पाठ्यक्रम की रही है।
- पत्रलेखन के प्रकार, आवेदन पत्र, बैंकिंग, सरकारी कार्यालय और प्रयोजनमूलक भाषा से छात्र परिचित होते हैं।
- हिंदी की कहानी, कविता, संस्मरण, रेखाचित्र, डायरी, आत्मकथा, जीवनी, निबंध, यात्रावृत्त, व्यंग्य रिपोर्टाज, पत्र आदि विधाओं का परिचय भी छात्र कर चुके हैं। जीवनमूल्य भावभावनाओं सुविधाओं के परिचय के साथ आधुनिक साधनों का भाषाई प्रयोग कैसे करें इस का परिचय भी छात्र कर पाते हैं।
- रेडियो वार्तालेखन, समाचार लेखन, मीडिया के विविध आयाम, हिंदी भाषा की व्यवसायिक उपयोगिता, बैंकों में हिंदी वैश्वीकरण के परिप्रेक्ष्य में हिंदी भाषा का महत्व, उद्योग व्यापार में हिंदी के सहारे कैसे आर्थिक प्रगतिकर सकते हैं आदि बातों का परिचय करवाना भी उद्देश्य रहा है।

#### प्रश्नपत्र 5 - कथेतर गद्य साहित्य

- कथेतर गद्य साहित्य प्रश्नपत्र में समाविष्ट करने के पीछे यह उद्देश्य रहा है कि हिंदी के छात्र हिंदी साहित्य के कथेतर विधाओं से परिचित हो।
- 'गद्यगौरव' और 'गद्यप्रभा' पुस्तक के माध्यम से छात्र रेखाचित्र, निबंध, संस्मरण, जीवनी परक लेख, व्यंग्य, आत्मकथा-अंश, यात्रावृत्तांत, लेख आदि विधाओं से भलीभांति परिचित हो।
- साहित्य के विविध विधाओं के आस्वादन का आनंद लेने की आदत और अभिरुचिका विकास करना।
- हिंदी कथेतर गद्य संवेदना की परंपराओं का परिचय करना।
- जीवनमूल्यों के प्रति आस्था पैदा करना।

#### प्रश्नपत्र 6 - प्रयोजनमूलक हिंदी

- हिंदी भाषा के प्रयोजनमूलक रूप का परिचय करना।
- हिंदी भाषा की व्यावहारिकता पर प्रकाश डालना।
- भारत देश की राष्ट्रभाषा होने के नाते हिंदी भाषा की अहमियत का मूल्यांकन करना।
- हिंदी के राष्ट्रीय और अंतरराष्ट्रीय स्वरूप का मूल्यांकन करना।
- आधुनिक तंत्र विज्ञान में हिंदी की उपयोगिता का आकलन करना।

### प्रश्नपत्र7 - आधुनिकहिंदीकविता

- हिंदीसाहित्यकेपद्य / कविताउद्भवऔरविकासपरप्रकाशडालना, हिंदीकविताकेप्रतिछात्रोंमेंअभिरुचिकीवृद्धिकरना।मानवीयभावभावनाएंउनकाविकासकरनाप्रस्तुत पाठ्यक्रमकाउद्देश्यहै।
- नागार्जुनद्वारालिखितखंडकाव्य 'भूमिजा'  
रामायणकेकथाप्रसंगपरआधारितहै।सीताकाऐतिहासिकमूल्यांकनकरतेहुएएकनारीकेनातेउसकी कौनसीशिकायतेंराजा, पति,  
पुरुषऔरराज्यकेप्रतिरहीहैइसकाविस्तृतमूल्यांकनकरना।नारीजीवनकेसंघर्षऔरविद्रोहकापरिचयइ  
सखंडकाव्यकाउद्देश्यहै।
- रामायण,  
रामचरितमानसतथारामायणकथासेअलगसीताकाचरित्रएकस्त्रीकापुरुषकेप्रतिविद्रोहइसरूपमेंमिल  
ताहै, इसकापरिचयकरानाहै।
- पाठ्यक्रममेंनिर्धारित'चुनीहुईलंबीकविताएं'  
कविताऔरखंडकाव्यकेबीचकासाहित्यिकपथरूपहै।इनकविताओंकेमाध्यमसेछात्रविविधताकेभाव  
औररसोंसेपरिचितहोजातेहैं।साथहीआधुनिकजीवनकाबाजारीकरण, अर्थसत्ता, परेशानियां,  
भ्रमभंगआदिवास्तविकतासेछात्रोंकोपरिचितकरवानामुख्यउद्देश्यहै।

### प्रश्नपत्र8 - प्रयोजनमूलकहिंदी

- हिंदीभाषातथाराजभाषाहिंदीकेविविधरूपोंकापरिचयकरना।
- प्रयोजनमूलकभाषातथाअनुवादकीभूमिकाकापरिचयकरना।
- हिंदीभाषाकेप्रयोजनमूलकऔरव्यवहारिकरूपकापरिचयकरना।
- भारतदेशकीराष्ट्रभाषाहोनेकेनातेहिंदीभाषाकीअहमियतकामूल्यांकनकरना।
- हिंदीकेराष्ट्रीयऔरअंतरराष्ट्रीयस्वरूपकामूल्यांकनकरना।
- आधुनिकतंत्रविज्ञानमेंहिंदीकीउपयोगिताकाआकलनकरना।

### प्रश्नपत्र9 - प्रादेशिकसाहित्य

- साहित्यआस्वादनऔरअभिरुचिकापरिष्कारकरना।
- जीवनमूल्योंकेप्रतिआस्थानिर्माणकरना।
- प्रादेशिकभाषाकेसाहित्यसेपरिचयकरवाना।
- भारतीयसाहित्यकाअध्ययनकरना।

### प्रश्नपत्र10 - आदितथामध्यकालीनहिंदीसाहित्यकाइतिहास

- हिंदीसाहित्यकेइतिहासतथाआरंभिककालकापरिचयकरना।

- हिंदी साहित्य के लेखन स्रोतों एवं परंपराओं पर प्रकाश डालना।
- हिंदी साहित्य के आदिकाल, भक्तिकाल और रीतिकाल का परिचय देना।
- साहित्य आस्वादन और अभिरुचि का परिष्कार करना।
- जीवन मूल्यों के प्रति आस्थानिर्माण करना।

#### प्रश्नपत्र 11 - साहित्यशास्त्र

- साहित्य चिंतन परंपरा का अध्ययन करना।
- साहित्यालोचन क्षमता का परिचय करना।
- साहित्य सृजन के संस्कार करना।
- साहित्य एक प्रकार से शास्त्र है उससे पढ़ना, उसका चिंतन, आकलन, मूल्यांकन और सृजन करना एक प्रकार की शास्त्रीय तकनीक है। इसी तकनीक का विकास करना प्रस्तुत पाठ्यक्रम का उद्देश्य है।
- साहित्य का स्वरूप, तत्त्व, प्रयोजन, हेतु, शब्द-शक्तियां, रस, अलंकार, छंद, विविध विधाओं का स्वरूप तथा आलोचना आदि अंगों का छात्रों को परिचय करवाना।
- हिंदी भाषा के छात्र होने के नाते एक परिपूर्ण इंसान बनना और मानवीय जीवन की आकलन क्षमता का विकास करना प्रस्तुत पाठ्यक्रम का उद्देश्य है।
- साहित्य का मूल्यांकन करने का दृष्टिकोण विकसित करना तथा कलापक्ष पर प्रकाश डालने की क्षमता का विकास करना।

#### प्रश्नपत्र 12 एवं 16 - प्रकल्पकार्य

- पठन-पाठन और लेखन कौशलों का विकास करना।
- आलोचनात्मक क्षमता का विकास करना।
- अनुसंधात्मक दृष्टिका विकास करना।
- प्रकल्प प्रस्तुति की तकनीक से छात्रों को परिचित करना।

#### प्रश्नपत्र 13 - मध्यकालीन काव्य

- भारतीय भक्ति आंदोलन का अध्ययन करना।
- रीतिकालीन संवेदनाओं का अध्ययन करना।
- कविता के माध्यम से मध्यकालीन सांस्कृतिक संवेदना का अध्ययन करना।
- भक्ति तथारितिकालीन पृष्ठभूमि और प्रवृत्तियों से छात्रों को परिचित करना।
- साहित्य का चिंतन, आकलन और मूल्यांकन एक शास्त्रीय तकनीक है, इसका विकास करना पाठ्यक्रम का उद्देश्य है।

#### प्रश्नपत्र 14 - आधुनिक हिंदी साहित्य का इतिहास

- हिंदीसाहित्यकेआधुनिककालकापरिचयकरना।
- हिंदीसाहित्यकेआधुनिककालकीपृष्ठभूमिऔरप्रवृत्तियोंसेपरिचितकरना।
- आधुनिककालीनहिंदीकविताऔरगद्यलेखनपरप्रकाशडालना।
- भारतीयस्वतंत्रतासंग्राममेंहिंदीसाहित्यकारोंकीभूमिकाऔरउनकेकाव्यकामूल्यांकनकरना।
- हिंदीसाहित्यकेअधुनातनप्रयोगोंकामूल्यांकनकरना।

#### **प्रश्नपत्र15 - साहित्यशास्त्र**

- साहित्यचिंतनपरंपरासेपरिचितकरना।
- साहित्यालोचनऔरसृजनक्षमताकाविकासकरना।
- रस, अलंकार, छंद, विविधविधाओंकास्वरूप, आलोचनाआदिअंगोंकाअध्ययनकरना।
- साहित्यकीविभिन्नविधाओंसेछात्रोंकोपरिचितकराकरतात्त्विकअध्ययनकरना।
- साहित्यकेकलापक्षकामूल्यांकनकरना।
- छात्रोंमेंसाहित्यालोचनकीदृष्टिविकसितकरना।

#### **M.A.HINDI**

#### **प्रश्नपत्र1 - आदितथामध्यकालीनसाहित्यकाइतिहास**

- हिंदीसाहित्यकेइतिहासतथाआरंभिककालकापरिचयकरना।
- हिंदीसाहित्यलेखनकेस्रोतएवंपरंपरापरप्रकाशडालना।
- आदिकालभक्तिकालऔररीतिकालकापरिचयदेना।
- छात्रोंमेंआस्वादनऔरअभिरुचिकोबढ़ाना।
- साहित्यकेअध्ययनहेतुदृष्टिविकसितकरना।

#### **प्रश्नपत्र2 - भारतीयसाहित्यशास्त्र**

- भारतीयसाहित्यचिंतनपरंपराकाअध्ययनकरना।
- साहित्यकेसृजनसंस्कारकरना।
- साहित्यकास्वरूप, तत्त्व, प्रयोजन, हेतु, शब्दशक्तियां, रस, अलंकार, छंद, विविधविधाओंकास्वरूपतथाआलोचनाआदिअंगोंसेछात्रोंकोपरिचितकरना।
- समीक्षात्मकदृष्टिविकसितकरना।
- साहित्यकेअध्ययनहेतुपठन, चिंतन, आकलन, मूल्यांकनऔरसृजनहेतुदृष्टिविकसितकरनापाठ्यक्रमकाउद्देश्यहै।

#### **प्रश्नपत्र3 - भक्तिकालीनकाव्य**

- भक्तिकालीनकविताकीपृष्ठभूमिसेपरिचयकरना।

- सगुणनिर्गुणकाव्यधाराकीविशेषताओंपरप्रकाशडालना।
- भारतीयसंस्कृतिकेउत्थानमेंभक्तिकाव्यकायोगदानसमझाना।
- भक्तिकालकेविविधसंतोंकेसामाजिकएवंधार्मिकविचारोंकामूल्यांकनकरना।

#### प्रश्नपत्र4 - उपन्याससाहित्य

- हिंदीउपन्याससाहित्यकाविकासात्मकअध्ययनकरना।
- उपन्यासकेआस्वादनेवंआलोचनात्मकक्षमताकाछात्रोंमेंविकासकरना।
- हिंदीउपन्यासऔरयुगबोधपरप्रकाशडालना।
- हिंदीउपन्यासकारोंकापरिचयकरना।

#### प्रश्नपत्र5 - आधुनिकसाहित्यकाइतिहास

- हिंदीसाहित्यकेआधुनिककालऔरपरंपरासेपरिचितकरना।
- आधुनिककालकीपृष्ठभूमिऔरप्रवृत्तियोंपरप्रकाशडालना।
- हिंदीसाहित्यकेआधुनिककालमेंलिखितपद्यऔरगद्यविधाओंकामूल्यांकनकरना।
- साहित्यऔरयुगबोधकापरस्परअंतरसंबंधसमझाना।
- साहित्यकेसामाजिकऔरअधुनातनपहलुओंपरप्रकाशडालना।
- इतिहासबोधएवंआलोचनाकाअध्ययनकरना।

#### प्रश्नपत्र6 - पाश्चात्यसाहित्यशास्त्र

- पाश्चात्यसाहित्यचिंतनपरंपराकाअध्ययनकरना।
- अधुनातनआलोचनाकीदृष्टिकाअध्ययनकरना।
- आलोचनात्मकक्षमताकाविकासकरना।
- साहित्यसृजनकेसंस्कारकरना।
- समीक्षात्मकदृष्टिविकसितकरना।
- साहित्यकेअध्ययनहेतुपठन, चिंतन, आकलन, मूल्यांकनऔरसृजनहेतुदृष्टिविकसितकरनापाठ्यक्रमकाउद्देश्यहै।

#### प्रश्नपत्र7 - रीतिकालीनकाव्य

- रीतिकालीनकविताकीपृष्ठभूमिकाअध्ययनकरना।
- रीतिबद्ध, रीतिमुक्तऔररीतिसिद्धकाअंतरसमझाना।
- रीतिकालीनसाहित्यलेखनकीपरंपरापरप्रकाशडालना।

#### प्रश्नपत्र8 - कहानीसाहित्य

- बीसवींसदीकीहिंदीकहानीकापरिचयकरना।

- हिंदीकहानीऔरप्रमुखकहानीकेआंदोलनोंकापरिचयकरना।
- हिंदीकेप्रमुखकहानीकारोंकापरिचयकरना।
- समकालीनदलित, स्त्रीऔरआदिवासीविमर्शपरप्रकाशडालना।
- कहानीविधाकातात्त्विकविवेचनकरना।

#### प्रश्नपत्र9 - भारतीयसाहित्य-1

- भारतीयसाहित्यकीअवधारणाकापरिचयकरना।
- भारतीयभाषासाहित्यऔरभारतीयताकीपहचानकरना।
- तुलनात्मकअध्ययनकीअवधारणासमझाना।
- साहित्यकेप्रतिनिधिरचनाकारोंकापरिचयकरना।

#### प्रश्नपत्र10 - भाषाविज्ञान

- भाषाकावैज्ञानिकअध्ययनकरना।
- भाषाअध्ययनकीप्रक्रियासमझाना।
- भाषाअध्ययनकेऐतिहासिकपरिदृश्यकाअध्ययनकरना।
- हिंदीभाषाकेउद्भवऔरविकासकापरिचयकरना।
- भाषाविकासऔरपरिवर्तनकाअध्ययनकरना।

#### प्रश्नपत्र11 - स्वतंत्रतापूर्वहिंदीकविता

- स्वतंत्रतापूर्वहिंदीकविताकेविकासक्रमकाअध्ययनकरना।
- कविताकेमाध्यमसेजनसंवेदनाकाअध्ययनकरना।
- स्वतंत्रतापूर्वकाव्यरूपोंकाअध्ययनकरना।
- काव्यस्वादनतथामूल्यांकनक्षमताकाविकासकरना।

#### प्रश्नपत्र12 - प्रयोजनमूलकहिंदी

- प्रयोजनमूलकभाषातथाअनुवादकीभूमिकाकापरिचयकरना।
- हिंदीकेप्रयोजनमूलकऔरव्यवहारिकरूपकोसमझाना।
- हिंदीकाराष्ट्रभाषाकेरूपमेंमूल्यांकनकरना।
- हिंदीकेराष्ट्रीयऔरअंतरराष्ट्रीयस्वरूपकामूल्यांकनकरना।
- आधुनिकतंत्रज्ञानमेंहिंदीकीउपयोगिताकामूल्यांकनकरना।
- प्रयोजनमूलकभाषाकेसैद्धांतिकऔरभाषिककौशलोंकाअध्ययनकरना।

#### प्रश्नपत्र13 - भारतीयसाहित्य-2

- भारतीयसाहित्यकीअवधारणाकापरिचयकरना।
- भारतीयभाषासाहित्यकेअध्ययनकीमददसेभारतीयताकीपहचानकरना।
- तुलनात्मकअध्ययनकीअवधारणाकाअध्ययनकरना।
- भारतीयसाहित्यकेप्रतिनिधिरचनाओंकाअध्ययनकरना।
- भारतीयसाहित्यकेअध्ययनकीसमस्याओंकाअध्ययनकरना।

#### प्रश्नपत्र14 - हिंदीभाषाकाइतिहास

- हिंदीभाषाकासंरचनात्मकअध्ययनकरना।
- हिंदीभाषाकेविकासक्रमकोसमझाना।
- हिंदीकीबोलियोंकाअध्ययनकरना।
- देवनागरीलिपिकेगुणदोषोंपरप्रकाशडालना।

#### प्रश्नपत्र15 - स्वातंत्र्योत्तरहिंदीकविता

- स्वातंत्र्योत्तरहिंदीकविताकेविकासक्रमकाअध्ययनकरना।
- स्वातंत्र्योत्तरहिंदीकविताकेमाध्यमसेस्वातंत्र्योत्तरजनसंवेदनाओंकाअध्ययनकरना।
- स्वातंत्र्योत्तरकाव्यरूपोंकाअध्ययनकरना।
- कविताकेकलापक्षकोसमझनेकीदृष्टिकाविकासकरना।

#### प्रश्नपत्र16 - माध्यमलेखन

- जनसंचारकेमाध्यमोंकाअध्ययनकरना।
- माध्यमहेतुउपयोगीलेखनकासैद्धांतिकस्वरूपसमझाना।
- माध्यमलेखनकौशलोंकाविकासकरना।

### DEPARTMENT OF MARATHI

बी. ए. प्रथम वर्ष

०१ मराठी

अ) कथात्म साहित्य :

- विद्यार्थ्यांमध्ये साहित्यविषयक जाणिवा निर्माण होतात.
- विद्यार्थ्यांना साहित्यातील निरनिराळ्या साहित्य प्रकारांची माहिती होते.
- कथा या वाङ्मय प्रकारची विद्यार्थ्यांना ओळख होते.
- कथा साहित्याच्या प्रकाराविषयीचे ज्ञान विद्यार्थ्यांना होते.

### आ) मुद्रित माध्यमासाठी लेखन कौशल्ये :

- विद्यार्थ्यांमध्ये माध्यमांविषयीची जिज्ञासा निर्माण होते.
- विद्यार्थी विविध माध्यमांविषयीची माहिती घेऊन समृद्ध होतो.
- मुद्रित माध्यमांच्या प्रकारांची विद्यार्थ्यांना माहिती होते.
- वृत्तपत्रांचे महत्व आणि त्याचे स्वरूप विद्यार्थ्यांच्या लक्षात येते.
- बातमी लेखन, अग्रलेख, जाहिरात, मुलाखत या लेखन प्रकाराची माहिती विद्यार्थ्यांना होते.

### ०२ प्रथम भाषा : मराठी- गद्य, पद्य आणि उपयोजित मराठी

- साहित्य प्रकारांची माहिती विद्यार्थ्यांना माहिती होते.
- मराठी उपयोजनाच्या एकूण प्रकारांविषयी विद्यार्थी जिज्ञासूवृत्तीने जाणून घेतात.
- गद्य-पद्यातील अंतराची विद्यार्थ्यांना ओळख होते.
- साहित्य विषयक अभिरूची विद्यार्थ्यांमध्ये निर्माण होते.

### बी. ए. द्वितीय वर्ष

#### ०१ ऐच्छिक विद्यार्थी

#### अ) दृकश्राव्य माध्यमांसाठी लेखन कौशल्ये

- विद्यार्थी दृक श्राव्य माध्यमांसाठी लागणाऱ्या लेखन कौशल्यांचा अभ्यास करतो.
- दृकश्राव्य या दोन वेगवेगळ्या माध्यमांचे निराळेपण विद्यार्थी समजून घेतात.
- इलेक्ट्रॉनिक मिडीयातील दूरचित्र वाहिन्या, नभोवाणी, संगणक हे घटक विद्यार्थी ज्ञात करून घेतात.
- दृकश्राव्य माध्यमांसाठी लागणाऱ्या लेखन कौशल्याची माहिती विद्यार्थ्यांना होते.

#### आ) साहित्य प्रकारांतर आणि साहित्याचे माध्यमांतर

- साहित्याच्या विविध प्रकारांची माहिती विद्यार्थ्यांना होते.
- विद्यार्थी माध्यमांचे महत्व लक्षात घेतो.
- साहित्याच्या प्रकारांची माहिती विद्यार्थ्यांना होते.
- साहित्याचे माध्यमांतर करण्यासाठीचे लेखन कौशल्य विद्यार्थ्यांमध्ये निर्माण होते.
- माध्यमांसाठीच्या विविध लेखन प्रकारांचा परिचय विद्यार्थ्यांना होतो.

### बी. ए. तृतीय वर्ष

#### अ) भारतीय साहित्य विचार



- विद्यार्थ्यांना साहित्याच्या स्वरूपविषयीचे आकलन होते.
- विद्यार्थी साहित्य प्रयोजने माहिती करून घेतो.
- विद्यार्थ्यांना साहित्याच्या निर्मिती प्रक्रियेविषयी माहिती होते.
- साहित्यातील शब्द शक्तीविषयी विद्यार्थी ज्ञात होतात.

#### आ) भाषाविज्ञान

- विद्यार्थ्यांना भाषेचे विज्ञान असते हे कळायला लागते.
- विद्यार्थी भाषेचे स्वरूप समजून घेऊन भाषे विषयीचे त्यांचे आकलन वाढते.
- भाषेतील स्वन व स्वनमविचार ह्या संकल्पना विद्यार्थी समजून घेतात.
- भाषेबाबतचे समज, गैरसमज विद्यार्थ्यांना कळू लागतात.

#### इ) मध्ययुगीन मराठी वाङ्मयाचा इतिहास

- वाङ्मयाच्या इतिहासाचे कालखंड विद्यार्थ्यांना ज्ञात होतात.
- तत्कालिन सामाजिक, सांस्कृतिक स्थितीगती विषयीची माहिती विद्यार्थ्यांना होते.
- तत्कालीन ग्रंथनिर्मितीची प्रेरणा विद्यार्थ्यांना लक्षात येते.
- महानुभाव, वारकरी संप्रदायांची ओळख विद्यार्थ्यांना होते.
- बहामणी काळातील साहित्याची विद्यार्थ्यांना माहिती होते.

#### ई) प्रकल्प कार्य

- विद्यार्थ्यांच्या वाचन,लेखन कौशल्याचा विकास होतो.
- विद्यार्थ्यांची समीक्षात्मक दृष्टी विकसित होते.
- विद्यार्थ्यांच्या संशोधनात्मक वृत्तीला चालना मिळते.
- विद्यार्थी चौफेर वाचन करण्यास प्रवृत्त होते.

#### एम. ए. मराठी प्रथम वर्ष

##### अ) आधुनिक मराठी वाङ्मयाचा इतिहास (१९२०-१९६०)

- मराठी वाङ्मयाच्या इतिहासाचे कालखंड विद्यार्थी समजून घेऊन तयार होतात.
- आधुनिक मराठी वाङ्मयाची पार्श्वभूमी विद्यार्थ्यांना माहिती होते.
- आधुनिक वाङ्मयातील विविध वाङ्मय प्रकारांबद्दल विद्यार्थ्यांमध्ये जिज्ञासा निर्माण होते.

- साहित्यातील स्थित्यंतराबद्दल विद्यार्थी माहिती करून घेतात.
- वाङ्मयीन नियतकालिकांविषयीचे विद्यार्थ्यांचे ज्ञान अधिक प्रगल्भ होते.

#### आ) साहित्य समीक्षेची मूलतत्वे

- साहित्याचे स्वरूप विद्यार्थ्यांच्या लक्षात येते.
- साहित्याच्या इतिहासाबद्दल विद्यार्थी जिज्ञासेने माहिती करून घेतात.
- साहित्यातील मूल्यांची ओळख विद्यार्थ्यांना होते.
- साहित्यातील शैलीविचार विद्यार्थ्यांना ज्ञान होतो.

#### इ) वाङ्मय प्रकार : संकल्पना व स्वरूप

- विद्यार्थ्यांना वाङ्मय प्रकारांची ओळख होते.
- वाङ्मय प्रकाराची संकल्पना विद्यार्थ्यांना माहिती होऊन ते तयार होतात.
- कादंबरी या साहित्य प्रकाराची संकल्पना विद्यार्थी समजून घेतात.
- कादंबरीचे घटक आणि प्रकारांची माहिती विद्यार्थ्यांना होते.

#### ई) एका लेखकाचा विशेष अभ्यास : यशवंतराव चव्हाण

- आधुनिक कालखंडातील लेखकांचा परिचय विद्यार्थ्यांना होतो.
- एका लेखकाच्या अभ्यासाच्या विविध पद्धतीविषयी विद्यार्थी ज्ञात होतात.
- यशवंतराव चव्हाण एक श्रेष्ठ लेखक म्हणून विद्यार्थ्यांचे आकलन होते.
- ऋणानुबंध, कृष्णाकाठ या ग्रंथाविषयीचे विद्यार्थ्यांचे आकलन अधिक वाढते.

#### एम. ए. द्वितीय वर्ष

##### अ) वर्णनात्मक भाषाविज्ञान

- विद्यार्थी भाषेच्या स्वरूपाबाबत अवगत होतात.
- स्वनविचार, स्वननिर्मिती प्रक्रिया विद्यार्थ्यांना माहिती होते.
- भाषेच्या वाक्यविचाराविषयीचे विद्यार्थ्यांचे आकलन अधिक वाढते.
- भाषेतील संरचनावादाविषयी विद्यार्थ्यांना माहिती होते.

##### आ) आधुनिक मराठी वाङ्मयातील प्रवाह : दलित व आदिवासी साहित्य

- विद्यार्थी आधुनिक मराठी वाङ्मयातील प्रवाहाविषयी माहिती करून घेतो.
- १९६० नंतर साहित्यात झालेल्या स्थित्यंतराविषयी विद्यार्थी ज्ञात होतात.

- दलित साहित्याचे निराळेपण विद्यार्थी समजून घेतात.
- आदिवासी साहित्याच्या स्वरूपाचे ज्ञान विद्यार्थ्यांना होते.

### इ) लोकसाहित्य

- लोकसाहित्याविषयी विद्यार्थ्यांना माहिती होते.
- लोकसाहित्याची परंपरा, पार्श्वभूमी आणि स्वरूप या विषयी विद्यार्थी अवगत होतात.
- लोकसाहित्याच्या तुलनात्मक अभ्यासाविषयी विद्यार्थ्यांचे आकलन वाढते.
- लोकसाहित्यातून येणाऱ्या जीवनदर्शनाची माहिती विद्यार्थ्यांना होते.

### ई) मराठवाड्यातील आधुनिक साहित्य

- विद्यार्थ्यांना विविध प्रदेशातील साहित्याची ओळख होते.
- मराठवाड्यातील आधुनिक साहित्याची माहिती विद्यार्थ्यांना होते.
- मराठवाड्यातील आंदोलने आणि चळवळी या विषयीचे भान जागे होते.
- परिवर्तनाच्या चळवळीची विद्यार्थ्यांना माहिती होते.
- विद्यार्थी चळवळींचा साहित्य निर्मितीवर होणारा परिणाम लक्षात घेतात.

## DEPARTMENT OF HISTORY

### Paper title: Shivaji and His Times (1630-1818)

- Introduce innovative study techniques in the study of History of Maratha to make it Value based, conceptual and thought provocative. The secular ruler was very accommodating of all religions
- Introduce International elements in the study of Marathas to facilitate comparative Analysis of this history.
- Highlight the importance of past in exploration of present context.
- Understand the Socio –economic, cultural and political background of 17th century Maharashtra.
- Increase the spirit of healthy Nationalism & Secularism among the student. The secular ruler was very accommodating of all religions. He had numerous Muslim soldiers in his army. His only aim was to overthrow Mughal rule and establish Maratha Empire. He was also very supportive of people who converted to Hinduism.

### Paper title: History of Modern Maharashtra (1818-1960)

- To give the student an introduction to the study of Maharashtra.
- To acquaint the student with the basic understanding of how Maharashtra has grown to the present position and how the state has reached the present day.
- To impart high quality of education to the students.

- To prepare the students for a variety of challenging careers through innovation in teaching and research.
- To develop comprehensive understanding of interdisciplinary issues of the society.

**Paper title: History of Early India (up to B.C. 300)**

- The study of ancient Indian history is important to those who want to understand the true nature of many races and tribes intermingled in early India.
- Ancient India also saw the birth of Brahmanism of Hinduism, Jainism, and Buddhism, but all these cultures and religious intermingled and interacted.
- Increase the spirit of healthy nationalism & secularism among the student.
- The study of ancient Indian history is important to those who want to understand the true nature of the past and also to those who seek to understand the nature of the obstacles that impede India's progress as a nation.

**Paper title: History General Paper-VIII**

**History of Mughal India (A.D. 1526- A.D. 1757)**

- A major Mughal contribution to the Indian Subcontinent was their unique architecture. Many great monuments were built by the Muslim emperors during the Mughal era including the Taj Mahal. The Muslim Mughal Dynasty built splendid palaces, tombs, minars and forts that stand today in Delhi, Dhaka, Agra, Jaipur, Lahore, Sheikhpura and many other cities of India, Pakistan and Bangladesh.
- The study of Mughal period would see a more fruitful blending of Indian, Iranian and Central Asian artistic, intellectual and literary traditions than any other in India's history.
- Persian art and culture amalgamated with native Indian art and culture.
- The Mughal rulers provided political unity to India. Several parts of the country came under one administration.

**Paper title: History General Paper – IX**

**Historiography**

- The study of development of history as a discipline.
- The study of the writing of historical accounts.
- Indicate the importance of thinking "historiographically" as well as historically.
- A historiography can give you new angles to research and new interpretations to dispute.
- Most importantly, a historiography shows you which interpretations have been challenged. This keeps you from championing an interpretation using arguments that have already been countered.

**Paper title: History General Paper-X History of Indian national Movement (A.D. 1885-A.D. 1947)**

- History of Modern India" topic as a part of History is a very important section as far as the Syllabus of any competitive examination is possible, especially Civil Services exams.
- The course aims at providing comprehensive understanding of the transformations in the economy of colonial India. It covers the introduction of land and agrarian policies under the British rule. It also delineates the transformation that was effected in the urban space of British India. It focuses on the endeavors to reconstruct India and also on the emergence of modern industry and the rise of new social classes in colonial India.
- To develop nationalism in student mind.
- Understanding of British economic policy and why Indian revolted.

- All the Government and British Parliamentary Acts that led to the foundation for the constitution

### **M. A. History**

#### **Course Code- HIS-401**

#### **Course Title- History of India up to 300 B.C.**

- Explains stage wise development of civilization, morals and ethics and cultural development laying foundation for progression of cultural history from Indus Valley civilization with reference to general overview of India.
- The primary aim of this course is to provide a brief summary of the proto-historic and early historic cultural heritage of the country through a study of material remains that are found in the archaeological context. It provides details of the Harappan urbanism and other Chalcolithic cultural developments in India followed by the Megaliths and their cultural background in peninsular India. It also provides a brief summary of development of architecture and iconography in the early historic period.
- The main objective of this course is to introduce students to archaeology and the methods used by archaeologists. This will be followed by the chronological sequence of the early cultures of India – starting from the beginning of production of stone artifacts till 2700 years ago. Students will also examine the origin and development of domestic and religious architecture and development of various religions in the Indian subcontinent.

#### **M.A. History- I year**

#### **Course Code- HIS-402**

- Course Title- Twentieth century world (up to end of world war II)
- The main objective of the course is to incapacitate the learners to critically analyze the nature and political discourses of the twentieth century world.
- The emphasis is laid on to examine the trends in history during the first and second world war.
- Along with the historical perspectives of the developed, developing and underdeveloped nations are brought into light through the history of colonization and decolonization.

#### **M.A. History- I year Course Code- HIS-421**

#### **Course Title- Socio- Religious Movements in Maharashtra (1200-1700 A.D.)**

- The main objective of the course is focusing various approaches of Bhakti movements by modern thinkers and understanding rise of various religious cults related to Shaivism and Vaishnavism.
- This course also traces the ideology and protest of various religious sects towards social structure of medieval Indian society.
- This study provides a religious ideas, forms and nature of language and literature during this period.

#### **M.A. History**

#### **Course Code- HIS-423**

#### **Course Title- History of the Marathas 1600 to 1707**

This course informs students about political history of Chhatrapati Shivaji Particular and orients them to acquire proper understanding of Shivaji's administration and importance of this politics regarding agriculture, trade and religion.

#### **M.A. History**

#### **Course Code- HIS-424**

**Course Title- Nineteenth century India**

- The course emphasizes upon the nature of polity, society, culture in India prior and after the coming of the British colonialism.
- It mainly emphasized on the rule of the British East India Company rule in India and its impact on the Indian polity and society.
- Students will be made to critically evaluate the political cultural circumstances during the nineteenth century India.

**Course Code- HIS-403****Course Title- State, Society and Culture of India (300 B.C. - 500 A.D.)**

The main objective of the course is to impart knowledge and skills among students about polity, economy, society and culture of period during which the great empires were existing.

**Course Code- HIS-404****Course Title- Polity in Medieval India**

- This course introduces the theoretical concepts of Medieval Indian history. Students will get to know various sources and historiography of medieval Indian history.
- They will also get to know the recent approaches of medieval Indian History by modern historians.
- The political content in the syllabus has been reduced and emphasis is laid on various perspectives in
- Medieval administrations highlighting the characteristics of administration in Medieval Indian history.

**Course Code- HIS-430****Course Title- History of the Marathas (1707-1818)**

This course informs students about 18th century political development of India and Particular of Deccan.

This course also informs about the social and economic institutions expanded in Maharashtra. It also briefs about the political economy and architecture of the Marathas people.

**Course Code- HIS-432****Course Title- Hyderabad freedom struggle**

- This course will inform students about the historiography of Hyderabad freedom struggle.
- This course will provide information various stages of struggles and role of AryaSamaj, congress, somunist in the Hyderabad freedom strugal.
- Student will get information about Hyderabad Freedom Struggle. (Particularly about Marathwada Region)
- Student will understand the history of Hyderabad Freedom Struggle and the role of SC Communities in this struggle.

## **DEPARTMENT OF POLITICAL SCIENCE**

**Course Outcomes****Semester-I****Pol-101: Basic Concept of Political Science**

- To help the students Know the Concept of State and Its origin, Nature & Elements.
- To Study the Development of the Concept of Rights- State background of Political History.

- To analyze transitions in societal systems the structure and order of the system.
- To Enable Students to Understand Basic Concepts in Political Science.

#### **Pol-102: Government and Politics of Maharashtra**

- Establish pattern of Maharashtra State.
- To examine the government and non-government responses.
- To History of the Freedom Movement in India Collected from the Bombay Government Records and Understand Historical and Political Background of Maharashtra.
- To Explain Structure and Functions of State Government in India and Understand the Political Process of Maharashtra.

#### **Semester- II**

##### **Pol-103: Basic Concept of Political Science**

- To defined terms in a social science outside of their immediate area of expertise, for example economist needing information regarding a political science term.
- To create Awareness among students about democracy.
- To Help the Students to Understand Social and Political Values in Indian Political System.
- To understand the concept of Welfare State.

##### **Pol-104: Government and Politics of Maharashtra**

- To contest elections to be a part of legislative and executive large parties came to be dependent upon smaller parties for the formation of government's power.
- To provide solution to social problems.
- To Help the Students to know the history of Panchayat raj system and their functions.
- To Orient the Student about Ideology and Programme of Political Parties in Maharashtra.

#### **Semester- III**

##### **Pol-105, Indian Government and Politics**

- Indian constitution is give to many facility, rights through the constitutional provisions and aware about duty to Indian citizen and the government is to secure all round progress and prosperity of society.
- The more important political events in recent Government of India.
- To understand basic principles of Indian Constitution, their sources and constitutional provisions.
- To Study various Constitutional Institutions in India.

##### **Pol-106: International Relations**

- He study has important implications for international law and international relations generally.
- To Understand the Stages of Development of International Relation as a separate Discipline.
- To explain the behavior of individual entrepreneurs and firms rather than world politics, liberalism contains a theory of international relations.
- To Explain Some Basic Concepts in International Relations, approaches to the study of international relation.
- To understand basic principles of India's foreign policy, national power and national interest.

#### **Semester - IV**

##### **Pol-107, Indian Government and Politics**

- To Understand the Framework of Indian Supreme Court.
- Explain Structure of Union Government and Budgetary Process in India.
- To very well know students about party system and Electoral reforms in India.
- To Evaluate the Federal Structure and Centre State Relation.

#### **Pol-108, International Relations**

- Explain the role of United Nations in collective Security.
- To explore the nature of informal reasoning in international relations and to consider how instruction could help enhance.
- To Study the Various International and Regional Organization.
- To Aware about some major issues in Internationalism.
- Critically Evaluate the Non-Alignment Movement.

#### **Semester- V**

##### **Pol – 109: Indian Political Thinkers**

- To understand the Contribution of Modern Political Thinkers.
- It has been a problem in cultural transformation how best to accomplish the Cultural transformation of Indians into non-Indians.
- To Study the Religious Political, Social and Cultural thoughts of Indian Political Thinkers.

##### **Pol – 110: Western Political Thinkers**

- To Understand the Ideas of Western Political Thinkers and its Relevance.
- To Understand the Views of Western Political Thinkers.
- To explain the views of Plato and Aristotle's on Various Political Concepts and how he is Father of Political Science.
- To know ideas of Machiavelli about modern political science and social contract theory of Hobbes and Locke.

##### **Pol – 111: Political Ideologies**

- To understand relevance of Political Ideology in Contemporary Period.
- To Study the Development and Features and critically examine of the Political Ideologies.
- To show how these ideologies originated and how and why they have for most of the twentieth century, the clash of three political ideologies, liberalism, communism, and fascism.
- To relate the theoretical discussion and analysis of ideologies to the transformations, Introduction: Ideology and the Crisis of Modernity.

#### **Semester- VI**

##### **Pol – 113: Indian Political Thinkers**

- To know the Contribution of Modern Political Thinkers.
- To Understand Nehru's Democratic and Secular Views and Its Applicability.
- To Know of Ideas of Maulana Azad Views on Religion and Politics.
- To Critically Evaluate M.N.Roy's Radical Humanism.
- To understand Dr.B.R.Ambedkar's thoughts on Democracy, Economy and Society.

##### **Pol - 114, Western Political Thinkers**



- To know ideas of social contract theory of Rousseau and its popular sovereignty.
- To present and thoroughly document the wealth of historical and institutional material.
- To Study the Thoughts of J. S. Mill and Its Applicability.
- Critically evaluate the thoughts of Karl Marx and Its Relevance.
- To understand the theory of Utilitarianism.

#### **Pol – 115: Political Ideologies**

- To Study the Development and Features and critically examine of the Political Ideologies.
- Critically evaluate of ideology of socialism and communism.
- To study of the ideology of fascism.
- To study the development and features of the anarchism.
- To explain the ideology of feminism and environmentalism.

### **M. A. Political Science**

#### **Course Outcomes:**

#### **Semester- I**

##### **PSC-401: Western Political Theory**

- This course introduce to Western political theory.
- The meaning and nature of political theory, debates as well as recent theoretical trends in the discipline.
- Short introduction to recent trends in political theory.
- To explain the philosophy, political theory and political ideology and uses of political theory.

##### **PSC- 402: Theories of International Relations**

- This course outcome of making the students understand changing nature of international relations in terms explains the traditional approaches as well as major scientific approaches.
- To understand the basic concepts of international relations.
- To explain the theories of international relations.
- To study the movements in international politics.

##### **PSC- 403, Comparative Politics: Theoretical Perspective**

- This course gives to students modern approaches to the study of comparative politics.
- To help students of politics make such statements the best that since the 1950s, political scientists have increasingly sought to use comparative methods to help build.
- To the research process and ought to precede the other three objectives of comparison description and classification.
- To know the emergence of the new source of politics, comparative politics and comparative governments.

##### **PSC- 432, State Politics in India**

- To focus on the study of the evolutionary nature of centre-state relationship in the country after independence.
- To introduce to the dynamics of state politics in India.
- To assist students to know elections and political parties, changing nature of political process in states.
- To focus on the study of identity politics.

## **Semester- II**

### **PSC- 404: Modern Political Ideologies**

- This course is an attempt of teaching student's world's great ideas which are broadly considered as political creeds usually termed political ideologies: liberalism, conservatism, socialism, Marxism etc.
- The ideas serve as the foundation of political system.
- Orient Student about political Ideology and development and other ideological tradition.

### **PSC- 405: World Politics: Issues and Debates**

- This course outcome introduce students the critical analysis of new trends in the field of world politics.
- To understand the role of regional organizations in world politics.
- To create awareness about important issues in contemporary world politics.
- To explain the cold war and its impact on world politics and new economy policy.

### **PSC- 406: Western Political Thought**

- To understand the theory debate and unable to make an inquiry into the socio-political problems. It is, therefore, necessary to generate their thinking by appearing this course.
- Political thoughts occupy central position in the knowledge mechanism of political science, without which students are incapable.
- To understand the views of western political thinkers on various political concepts in ancient period to modern period.

### **PSC- 435: Public Administration**

- To acquaint the students with the concept of public administration.
- Its theories, management and organization and to imbibe its significance as a growing discipline in all walks life.
- To understand the basic concepts of public administration approaches and new public administration.
- To know very well good governance and transparency in government.

## **Semester- III**

### **PSC- 407: Research Methods in Social Sciences**

- To acquaint the student with the basic concepts of research and to familiarize.
- To understand the latest & scientific techniques and modern trends in social research.
- To understand the major study in the research process concepts variables and hypothesis.

### **PSC- 408: Indian Political Thought**

- The precise aim of the ant colonial movement in India was to institute citizenship and to put in place a constitutionality that was derived not from colonial authority but from a constituent.
- To evaluate the British impact on Indian society, the theoretical perspective of social reforms movements in 19 century social vs. Political reforms.
- To set the evidence out fairly, interpret it strictly, and alert readers to their political aims were moderate, but pursued with a steady bureaucratic passion: they were driven far more the desire to achieve things than by the desire, common enough in politics.

**PSC- 409: India's Foreign Policy**

- To understand basic approaches in the study of foreign policy.
- To explain elements in the making of foreign policy.
- Particularly focus on the changing nature of India's foreign policy.
- To know the basic principles and approaches to the study of foreign policy.

**PSC- 437: Modern Trends in Political Theory**

- The course provides an overview of the current trends in political theory.
- To throw an insight into the divergent trends in modern political theory.
- To study the import ants of social justice, theory of rights, feminist political theory and theory of welfare state and its critique.

**Semester IV****PSC- 410: Constitutional Process in India**

- To know the framing of the Indian constitution background and working of the constituent assembly and philosophy of constitution.
- To understand the constitution - various provisions, rights and duties.
- The dignity of every citizen the emphasis is on secular values, liberty, equality, justice and brotherhood.

**PSC- 411, Political Analysis**

- The focus on modern analytical trends that claim to break a new ground in the study of political theory.
- To familiarize the students with the ever on-going debate on the concepts like liberty, equality and a just social order from Liberal and Marxist perspectives.
- To deal with key issues related to political theory.

**PSC- 412: South Asia and the World**

- To understand the challenges of a global job market.
- The course focus on micro study of South Asian region and its very essential for students who study in foreign policy.
- To specialize the students on South Asian study.

**PSC- 423: Dr. Babasaheb Ambedkar on Caste: A Study of his text Annihilation of Caste**

- Impact the caste system has constituted major retard the developmental process of Indian democracy. With this reference the course offers caste debate of Dr. B. R. Ambedkar so as to get introduce the student over the problem of caste.
- Indian caste ridden society has created unprecedented socio-political problems within the frame work of parliamentary system.
- To explain Dr.Ambedkar's theories, vision of ideal society, social vs politics.

**DEPARTMENT OF ECONOMICS****Course Outcomes**

Economics is the subject of social sciences in dynamic form related to the economic behavior of a person, institution, nation and the world. The study of subject enhances choices of life, career

in business as self employment and employment in the several institutions right from local to global.

### **Paper-I: Micro Economics**

- This paper is related to the personal economic behavior and foundation of economics.
- It able to understand about the behavior of an economic agent specifically consumer, producer, seller and factors of production.
- It support to students for decision making in establishing business.

### **Paper-II: Indian Economy**

- Students should be aware about the situation of economy to be the successful entrepreneur.
- The paper spread awareness about the facts, strongest and weakness of the economy.
- The knowledge of paper is also beneficial to be successful in UPSC, MPSC, IES, RBI, etc.

### **Paper-III: Price Theory**

- It is providing knowledge of types of markets and price determination in that.
- It helps to determine the price of product which will be produced in the future by students.

### **Paper-IV: Money, Banking and Finance**

- This paper is essential for students to understand the monetary and banking system of a country.
- It provides knowledge beneficial to be successful entrepreneurs, citizen and servants in the monetary institutions.

### **Paper-V: Macro Economics**

- It gives the knowledge of community economic behavior in certain economic situation.
- Government and Institutions' policies are being studied which help to entrepreneurs as well as job seekers.

#### **Paper-VI: Economics of Development**

- Development is a process and everybody wants to be developed.
- The paper provides knowledge about development theories and success history of development.

#### **Paper-VII: Public Finance**

- This paper provides knowledge of the fiscal policy, public revenues and expenditure, tax system etc.
- It supports to take decisions of business to get benefit from government policies.

#### **Paper-VIII: Statistical Method**

- To be a successful businessman and policy maker the knowledge of data and use of statistical tools is required.
- This paper provides knowledge of statistics which support students to get job in Department of statistics, NSSO, CSO, Banks and National-International research institutes.

#### **Paper-IX: International Economics**

- International trade is work as an engine of development and enhances market for domestic products.
- The paper gives knowledge of globalization and policies of international trade.
- It supports future businessmen to earn more from international trade.

#### **Paper-X: Agricultural Economics**

- Indian economy is based on the agriculture sector.
- The knowledge of agriculture sector promotes students to do farming as business and make business policies according to the situation.

#### **Paper-XI: History of Economic Thoughts**

- It promotes students to be an economist by studying the history of economic thoughts.

- It develops the skill in students to develop new economic theory.

### **Paper-XIII: Research Methodology**

- Indian economy is less developed economy because of people is not enough research activities.
- This paper develops research oriented mind of the students.
- If student develop its research it gets jobs in research activities right from local to global institutions.

### **Paper-XIV: Industrial Economics**

- It introduces industrial structure of the economy and progress of industrialization.
- It aware about the scope of new entrepreneur to enter in industrial establishment.

### **Paper-XV: Indian Economic Thinkers**

- The paper introduces about the research and work of Indian economic thinkers.
- It promotes students to study of them and work for the self as well as economy's development.

### **Eco: XII (112): Project Work**

- There is 100 marks project work which have to submit and present to the University.
- It enhanced the research oriented analytical view of student which is beneficial to get job and start business with the practical study of Economics.

## **M.A.ECONOMICS**

Economics is the subject of social sciences in dynamic form related to the economic activities of a person, institution, nation and the world. The study of subject enhances choices of life, career in business as self employment and employment in the several institutions right from local to global.

Eco-401, 403: Micro Economics

- This paper is related to the personal economic behavior and foundation of economics.
- It make understand about the behavior of an economic agent specifically consumer, producer, seller and factors of production.
- It support to students for decision making in establishing business.
- It is providing knowledge of types of markets and price determination in that.
- It helps to determine the price of product which will be profitably produced in the future.

#### Eco-402, 404: Macro Economics

- Average economic tendency of the people is being studied in this paper which is most utilized in the government and private business policies.
- It gives the knowledge of community economic behavior in certain economic situations.
- If you want to understand any economy, you have to learn macro economics first.

#### Eco-423: Demography

- This paper provides the knowledge of country's population which is also explain the size and structure of market to the producer.
- It gives answer about the questions to the new producer- what to produce? How much to produce?
- It aware about how to get demographic dividend to the Indian economy and businessman.

#### Eco-424: Agricultural Economics

- Indian economy is based on the agriculture sector.
- The knowledge of agriculture sector promotes students to do farming as a business and promotes to take business decisions according to the situations.

#### Eco-430: Insurance Economics

- Service sector is increasing rapidly in India as well as in the world.
- People are becoming aware about various types of insurance, which is becoming the employment opportunities to the students.

#### Eco- 431: History of Economic Thoughts

- It promotes students to be an economist by studying the history of economic thoughts.
- It develops skills in students to develop new economic theory.
- Without reading history of economic thoughts, new history can't be made.

#### Eco-501, 503: Indian Economic Policy

- Students should be aware about the situation of an economy to be the successful entrepreneur.
- The paper aware about the facts, strongest and weakness of the economy.
- Knowledge of Government's economic policies required to every citizen special to the businessman and entrepreneur. It gives it.
- The knowledge of paper is also beneficial to be successful in UPSC, MPSC, IES, RBI, etc.

#### Eco-502, 504: Public Economics/Finance

- This course explains the significance of the role of Government in a market- oriented liberalizing economic environment.
- The course also introduces various approaches to fiscal policies.
- This paper provides knowledge of the fiscal policy, public revenues and expenditure, tax system etc.
- It supports to take decisions of business to get benefit from government policies.

#### Eco-522: Banking

- This paper is essential for students to understand the monetary and banking system of a country.
- It provides required knowledge to be successful entrepreneurs, citizen and servants in the monetary institutions.
- The knowledge of banking opens the door of employment opportunities to the students in banking sector.



#### Eco- 524: Growth Economics

- The course introduces some of the major economic ideas in development thinking.
- It answers about how to grow business and economy to the entrepreneurs and Government respectively.

#### Eco- 527: Financial Markets

- The course introduces structural organization of financial markets of the economy and world.
- It analyses basics of financial policies and operations of commercial banks and other financial institutions.

#### Eco-529: Development Economics:

- It introduces economic development theories and contemporary issues of economy.
- Awareness about the development process and economic problems of the economy helps for decision making in the business.
- It promotes development of business and personal career of the student in economics.

#### Service Course- Com-Se-600: Entrepreneurship Development

- Lack of entrepreneurship is the basic reason of India's backwardness and huge unemployment among educated youth.
- The course work selected for students to aware them about the entrepreneurship development.
- The course promotes students to be a successful entrepreneurs or businessman and create job opportunities for others.

All knowledge of Economics is supportive to be a successful entrepreneur.

## **DEPARTMENT OF PSYCHOLOGY**

### **B. A. Psychology**

#### **Psychology B. A. I year**

##### **PSY 101 General Psychology**

- To provide solid foundation for the basic principles of psychology.
- To familiarized students with the historical trends in psychology, major concepts, theoretical perspectives, empirical findings.
- To provide an overview of the applications of psychology.

##### **PSY 102- Social Psychology**

- To enable student to appreciate how individual behaviour is influenced by social and cultural contexts.
- To enable student to develop an understanding of functioning of dyads, groups and organization.
- To understand the unique features of the Indian socio-cultural context.
- To understand how social problems can be analyzed in terms of various social psychological theories.

##### **PSY 104 Basic Concepts in Psychology**

- To provide solid foundation for the basic principles of psychology.
- To familiarized students with the historical trends in psychology, major concepts, theoretical perspectives, empirical findings.
- To provide an overview of the applications of psychology.

##### **PSY 105 Basic Concepts in Social Psychology**

- To enable student to appreciate how individual behaviour is influenced by social and cultural contexts.
- To enable student to develop an understanding of functioning of dyads, groups and organization.
- To understand the unique features of the Indian socio-cultural context.
- To understand how social problems can be analyzed in terms of various social psychological theories.

##### **PSY -103 106 Psychology Practicum's: Experiments & Test:**

- To nurture the skill of observation.
- To create interest in psychological phenomenon.
- To develop awareness of psychological tools, techniques and tests.

#### **B.A. II year**

##### **PSY 110 Psychology for Living:**

- To enable student to make the connection between psychology and its practical application to everyday life.
- To train student how psychological principles can help them to face life's challenges
- To enables students to relate what they are learning in class to issues that they encounter in their everyday life, such as stress, health, work, personal relationships communication and self-esteem.

##### **PSY 111 Psychological Statistics:**

- To train students in various psychological assessment techniques.

- To acquaint the student and make them understand the different statistical methods with their uses and interpretations.
- To impart skills necessary for selecting and applying different tests for different purpose such as evaluation, training, rehabilitation etc.
- To nurture the skill of observation.

#### **PSY 107 Psychology of Adjustment:**

- To enable student to make the connection between psychology and its practical application to everyday life.
- To train student how psychological principles can help them to face life's challenges.
- To enables students to relate what they are learning in class to issues that they encounter in their everyday life, such as stress, health, work, personal relationships, communication and self-esteem.

#### **PSY 108 Psychological Testing:**

- To train students in various psychological assessment techniques.
- To acquaint the student and make them understand the different statistical methods with their uses and interpretations.
- To impart skills necessary for selecting and applying different tests for different.

### **B.A. III year**

#### **PSY 113 Subsidiary Abnormal Psychology**

- Critical Thinking
- Effective Communication
- Community and Civic Responsibility
- Quantitative Literacy
- Scientific and Technological Effectiveness

#### **PSY 114 Organizational Psychology**

- This course aims and understanding the behaviour of individuals along with other organizational assets
- Students are expected to learn not only the theoretical aspects of the course but also to familiarize themselves with the skills, techniques and their application

#### **PSY 119 Subsidiary Psychopathology:**

- To impart knowledge about the normality and Abnormality.
- To make students understand the nature and Course of various abnormal conditions.
- To impart knowledge and skills needed for Psychological assessment of different abnormal conditions.
- To impart Knowledge and skills needed for Psychological assessment of different abnormal conditions.

#### **PSY 117-123 Project Work**

- Students should able to write a project in psychology.
- Students should acquire the skills of presentation –PPT

#### **PSY 115 & 121**

- To nurture the skill of observation.

#### **PSY 122 Main counseling in action**

- To impart Knowledge about the counseling
- To make students understand the nature and Course of various conditions in which counseling is needed.

- To impart Knowledge and skills needed for Psychological assessment of different 1 counseling conditions.

## **M.A. Psychology**

### **Psychology M.A. First year**

#### **Psy. 401 Cognitive psychology**

- To Develop insight into one's own and others behavior and underlying mental processes.
- To enrich students understanding of major concepts theoretical perspectives and empirical findings in cognitive psychology.

#### **Psy.402 Foundation of behavioral research and statistics**

- To acquaint the student and make them understand the different statistical methods with their uses and interpretations.
- To develop computational skills in students and enable them to analyze the data practical, project work, and dissertation

#### **Psy.403 Psychology of personality**

- This course helps the students to understanding the divers psychological strategies to analyzing personality.
- To enrich students understanding of major concepts personality

#### **Psy.451 psychology practicum's experiments**

- To create interest in psychological phenomenon.
- To develop awareness of psychological of psychological tools, techniques and test.
- To nature the skill of observation.

#### **Psy.452 psychological practicums designing experiment**

- To create interest in psychological phenomenon.
- To develop awareness of psychological of psychological tools, techniques and test.
- To nature the skill of observation

### **Psychology M.A. second year**

#### **Psy. 407 Counseling process**

- To familiarize students with the nature and process of counseling
- To acquaint students with various assessment techniques.
- To expose the students to the various types of intervention and strategies

#### **Psy.408 Psychopathology**

- Current systems of classification of mental disorder
- the symptomatology of different psychological disorder
- the etiology and dynamics of the disorders with respect to various theoretical approaches.

#### **Psy. 409 Clinical assessments**

- knowing different psychological assessment tools.
- clinical interviewing.
- personality and behavioral assessment.

#### **Psy.455 Psychological practicums case history**

- Identifying behaviors problems.
- tasting case history.
- using counseling skills.

#### **Psy.456 Psychology practicums clinical assessment**

- To create interest in psychological phenomenon.
- To develop awareness of psychological of psychological tools, technique, and test
- To nature the skill of observation.

## **DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS**

### **Course outcomes**

B.A.I<sup>st</sup>Year (Semester-I&II):-

#### **Philosophical, Sociological Foundation & history of Physical Education (Phy.Edu.-101):**

- Introduction to the theoretical concept of philosophical and sociological foundation of physical education.
- To impart knowledge to students regarding the fundamentals of sociological foundation & history of physical education.

#### **Principle & Recent development of Physical Education (Phy.Edu.-102):**

- To develop student's physical competence, knowledge of safe movement, their ability to use these perform in a wide range of activities associated with the development of an active.
- To provide the positive values, attitudes and a good foundation for student's lifelong and life-wide learning in physical education.

#### **Practical in Physical Education (Phy.Edu.-103):**

- To prepare the students in competition of games.
- Develop game skill & abilities.

B.A.II<sup>nd</sup>Year (Semester-III&IV):-

#### **Health Education & Recreation in Physical Education and Sports (Phy.Edu.-201):**

- To aware about own health.
- To acquire knowledge about the health education
- To develop the personality of students and their socialization through recreation in physical education.

#### **Officiating, Coaching & Training Methods in Physical Education and Sports (Phy.Edu.-202):**

- To acquire knowledge through the officiating, coaching & training methods.
- To know the different training methods of fitness.

#### **Practical in Physical Education (Phy.Edu.-203):**

- To prepare the students in competition of games.

- Develop game skill & abilities.

B.A.III<sup>rd</sup> Year (Semester-V&VI):-

**Ancient & Modern History of Physical Education and Sports (Subsidiary) (Phy.Edu.-301):**

- To create the interest in Ancient & Modern History in Physical Education and Sports.

**Sports Psychology & Management in Physical Education and Sports(Main) (Phy.Edu.-302):**

- To provide foundation for the basic principles of psychology in physical education.
- To train players how psychological principles can help them to face sports challenges.
- To enable students to relate what they are learning in class to issue that they encounter in their stress, health, personal relationships communication and self-esteem.

**Organization, Administration & Supervision in Physical Education and Sports Youth Welfare and Youth Services(Subsidiary) (Phy.Edu.-303):**

- To acquire deep knowledge of organization and administration in physical education.
- To use this knowledge in sports competition.

**Anatomy, Physiology and kinesiology of Physical Education(Main) (Phy.Edu.-304):**

- To study anatomy, physiology and kinesiology in physical education.
- To understand the anatomy, physiology and kinesiology effects in physical education.

**Practical in Physical Education (Phy.Edu.-305 [Subsidiary]):**

**Practical in Physical Education (Phy.Edu.-306 [Main]):**

- To prepare the students in competition of games.
- Develop game skill & abilities.
- To cultivate interest in physical education and sports among students.
- To accumulate fitness development and Co-ordination of body.
- To expandSelf-Improvement in physical and mental abilities.

## **DEPARTMENT OF MUSIC.**

**INDIAN CLASSICAL MUSIC (VOCAL AND INSTRUMENTAL) :**

Course outcomes:

- Students have started their own musical groups.
- They have started their own music classes & they conduct many musical programs
- They also participate in akashvani program.
- Student learns variour forms of music.
- Worked as music teachers in schools& colleges and music academy
- Able to learn aroh, avrohas & alankaras
- Understand voice culture, various light forms of musicand Presentation of light music.

## **DEPARTMENT OF DRAMA**

### **PAPER- I**

- An introduction to a drama, expressing or expressing socialization the study of different arts reveals the human life of that period, as well as the introduction, beliefs, ritual, culture of the time. 1. Study of poetry, stories, novels, etc. in literature.
- Knowledge development of theatre, understanding theatre history.
- Introduction of regional theatre, introduction of various types of theatre.
- Introduction of Sanskrit theatre and its importance

### **B.A.FIRST YEAR**

#### **SEMESTER-II**

##### **PAPER-III**

- Knowledge development about old theatre tradition around the world. Awareness development about theatre history.
- Understanding development to understood plays. Structure analysis of the play
- Writing story play.
- Understand regional theater, understanding play and structure.
- Acting techniques development, use of body and voice, acting knowledge development.

### **B.A.SECOND YEAR**

#### **SEMESTER-III**

##### **PAPER-III (THEORY)**

- Deep knowledge of Sanskrit theatre, Sanskrit drama.
- Knowledge development of architecture and stage.
- The purpose of the study of various religious rituals, their culture in India, as well as the study of folk art, folk culture in the western country.
- Understanding various types of drama.
- An introduction to Indian folk culture study of folk art in Maharashtra.

### **B.A.SECOND YEAR**

#### **SEMESTER-III**

##### **PAPER-IV (PRACTICAL)**

- The aim is to convey a different art of color.
- The introduction of this important elements of lighting in the play.
- Occasion occurs improves secrecy, concentration, body language.
- Personality development communication skills development.
- Physical exercise should be practical as well as the development of cowardice skills, storytelling skills. 6. Music is an important part of human being music brings rhythm to life, the creative mind develops.

### **B.A.SECOND YEAR**

#### **SEMESTER-IV**

#### **PAPER-IV (PRACTICAL)**

- Personality development, command on self voice, communication skill of language.
- Details study of lighting, color effects.
- Study make up is very useful art in life colors knowledge, personality development.
- Interest development in reading, singing. 5. Improvement in body language and thinking power.

#### **B.A.THIRD YEAR**

##### **SEMESTER-VI (SPECIAL) THEORY**

- Deep knowledge of European theatre, various types of drama school and their technique.
- Knowledge of play production technique, production planning.
- Introduction and deep knowledge development of various folk forms.
- Understanding folk play.
- Introduction and understanding of various actors and there technique

#### **B.A.SECOND YEAR**

##### **SEMESTER-VI PAPER-III (THEORY)**

- Knowing how to use your voice and body can help develop personality.
- Enhance observation ability of different people, create a different view of the world.
- Details study of costume in different times. Costume sense development, color sense development. 4. Practically knowledge development about makeup, lighting, cuesheet, music etc.
- Development of director in ourself, progress in management of any event.

#### **B.A.THIRD YEAR SEMESTER-V**

##### **PAPER-IX COMMON PAPER (THEORY)**

- Play production procedure knowledge rehearsal technique development, theatre management development.
- Different acting schools knowledge development of whole world.
- Set designing knowledge development, perfection in set designing.
- Costume designing knowledge development perfection in costume designing.

#### **B.A.THIRD YEAR**

##### **SEMESTER-V**

##### **PAPER-X COMMON PAPER (PRACTICAL)**

- Stage structure building knowledge development, stage measurements knowledge.
- Introduction of makeup, perfection in makeup, various types of makeup knowledge development.
- .Lighting knowledge development and perfection in handling light equipments.

#### **B.A.THIRD YEAR**

##### **SEMESTER-VI (PRACTICAL) SPECIAL**



- Speech perfection technique Development Character buildup technique.
- Deep knowledge of light plan, music plan, costume plan, movements plan, become a such a good artist

### **B.A. THIRD YEAR**

### **SEMESTER-VI**

### **PAPER-XI COMMON PAPER (THEORY)**

- Modern Marathi theatre knowledge building, introduction of gramin, dalit and street play
- Various types of theatre introduction, knowledge development.
- Knowledge development of work as stage manager.
- Understanding knowledge Development if play.

## **DEPARTMENT OF SANSKRIT**

### **BA – SANSKRIT**

#### **Course outcome**

#### **Paper I - Sanskrit Sarita**

- To introduce students to Sanskrit language, Literature & Indian culture
- To study the usage of Sanskrit language in modern period
- To highlight the importance of language in communication skills & personality development
- To create interest in Sanskrit language for the study of scientific views in Sanskrit literature

#### **BAFY SANSKRIT - Optional Paper – I**

##### **Aarshamahakavya**

- To introduce students the ancient Sanskrit poetics
- To introduce students to epics Ramayana & Mahabharata
- To develop literary values & ethics
- To study the importance of the epics in Sanskrit

#### **Literature Paper- II**

##### **Vyakaranparampara**

- To understand the development and structure of Sanskrit grammar
- To study the origin & development in Sanskrit grammar
- To know the impact of Sanskrit grammar on Sanskrit language
- To study the Trimuni grammar tradition in Sanskrit grammar

#### **Paper - III Pratimanatak**

- To study Bhasa's literature according to social, political, cultural & moral values
- To introduce the ancient & developed Sanskrit drama traditions

#### **Paper- IV Kathasahitya**

- To introduce the tradition of Sanskrit stories
- To study the literary merits of Sanskrit stories such as - imagination, description, symbolism, etc.
- To study the ancient teachings and the behavioural trainings

#### BASY SANSKRIT - Second Language (SL)

##### **Paper - II Girvanmanjari**

- To introduce students to various forms of Vaidic Literature
- To introduce various aspects of Sanskrit language & develop the accuracy in their Sanskrit phonetics 3. To study the different styles of meters in Sanskrit poetics for the recitation of poems.

#### BASY SANSKRIT - Optional

##### **Paper - V**

##### **Pancha Mahakavyacha Etihasa**

- To study the tradition of skilful Panch Mahakavyas in Sanskrit literature
- To understand the characteristics of skilful PanchMahakavyas
- To study the themes, character sketches, styles, rasa, alanakaras and meters of Panch Mahakavyas and learn the impact of various aspects of literature on it

##### **Paper- VI Raghuvansham**

- To learn the introductory nature of kalidasas Raghuvansham
- To understand the style of Raghuvansham
- To study the literary values of Raghuvansham
- To study the idols in Raghuvansham

##### **Paper - VII Shukanasopadesh**

- To study the nature of Prose tradition in Sanskrit literature
- To study the nature and characteristics of prose Kadambari
- To enhance the awareness of the importance of teacher's teachings for the youths
- To discuss the effects of power, asset and youthfulness in reference to Shukanasopadesh

##### **Paper- VIII Sangeet Saubhadra**

- To study the drama Sangeet Ssaubhadra as a symbol of modern Sanskrit literature
- To understand the translated Sanskrit literature

#### **BATY SANSKRIT - Optional Paper - IX Vaidic Sukte**

- To introduce the ancient Vaidic Language and Vaidic Literature
- To study the Vaidic Literature and culture in the point of view of science
- To learn the oral tradition of education through different Vaidic Suktas

##### **Paper- X Natyalakshan & Natak**

- To study the properties of Natya in reference to Natyashastra

- To develop interest in the studies of socio-cultural aspects and idols of Abhijnansakuntalam
- To prepare students to go for detail study and understanding kalidasa's writing skills in dialogues, aesthetics and characters

**Paper - XI Vyakaran**

- To study the topic Sandhi because without this Sanskrit studies are not possible
- To familiarize the students with different types of Sandhi to understand the language better

**Paper- XII Tattwajnan**

- To introduce students to the spiritual life of Indian culture
- To understand the philosophy in Bhagawadgita

**Paper - XIII Natak (Abhijnanshakuntalam)**

- To introduce students literary merit, beauty and creativity of Kalidas
- To study Abhijnansakuntalam as a pre-eminent creation in Sanskrit literature

**Papar - IVX Sahityashastra**

- To understand the nature of poem and poetics
- To familiarize the learners with different types of rhetoric
- To aware students for enjoying the perception of pleasure of literary sources with the help of rhetoric

**Paper - XV Project**

- To develop students to establish research values, findings
- To create the confidence about creative writings
- To introduce some advanced units of language so that they become aware of practical usage

## **DEPARTMENT OF PUBLIC ADMINISTRATION**

### **Paper I – Principles and Concepts of Public Administration**

- To introduce concepts of Public Administration and History of the field of Public Administration.
- To make students competent to face challenges in the field of Public Administration to successfully prepare for the civil services.
- The students should be familiar with importance of Public Administration in routine life.

### Paper II- Public Administration in India

- To introduce Indian Administration structure and Indian Constitutional Framework.

- To analyze the practical knowledge of Indian Administrative System related various Mantralay.
- To familiar with how to administrative adjudication and rule making by executive branch agencies.

### Paper III- Maharashtra Administration

- The students will be aware about the process of administrative rule making as a part of the legal process.
- To analyze the practical knowledge of Maharashtra Administration various Govt. Offices (ex. Collector offices, Superintendent of Police etc.).
- Students will able to understand about local level District Administration framework and function.

### Paper IV – District Administration

- The student will be familiar with
- To introduce the new trends in the Public Administration and how to use them for the society.
- To increase the high emotions of social commitment and Humanity in the students.

### Paper V – Personnel Administration

- To make students competent to face challenges in the field of Public Administration & successfully prepare for the civil services.
- To prepare students as a responsible citizen of society.
- To introduce to students with the merit system in Public Administration including the Indian Civil Service system and those used in local government.
- The students will be familiar and able to describe performance evaluation system that are used in Public Personnel Administration.

### Paper VI – Panchayat Raj and Rural Development

- To introduce Indian Administration structure and Decentralization Structure.
- The students will able to understand the problem related agriculture, industries, cooperative sector and infrastructure in the district.
- The student will be conversant in the ethical challenges of rural communities, especially as they relate to issues of privacy and boundaries.

### Paper VII – Financial Administration

- To acquaint the students with the concept of Financial Administration.
- To aware about Functions & Role of Agencies of Financial Administration.
- To introduce about parliamentary control over Financial Administration.

### Paper VIII – Human Resource Development

- To familiar with need of Human Resource Development Institutions.
- To aware about challenges before Higher Education.
- To identify the content, process and outcomes of HRD applications.
- To aware about growth of organization associated with the development of its workforce.

### Paper IX – Administrative Thinker

- To understand the views of Administrative thinkers.
- aware about Public Administration is to secure and strengthen democratic institution and mechanisms

### Paper X – Public Policy and Development

- The student will able to understand public policy analysis involves evaluating issues of public importance with the objectives of providing facts and statistics about the extent and impact of the various policies of the government.
- Students will be familiar with the mechanism operating in the major political institutions for the creation and implementation of public policies.

### Paper XI – Health Administration in India

- To promote awareness of health care among all section of the Indian people.
- Aware about Health Administrative System in India.
- To familiar with providing patient centered services by Govt.
- Student will be able to understand major issues of health in India.

### Paper XII – Recent Trends in Public Administration and Important Laws

- To introduce the new trends in the Public Administration and how to use them for society.
- To aware about Public Administration is to secure and strengthen democratic institution and mechanisms.
- The students will able to understand New Public Administration is an anti-positivist, anti-technical and anti-hierarchical reaction against traditional Public Administration.
- Critically assess various administrative system an modes of governance in specific policy contexts.