

Program Specific Outcome B.Sc. (with Physics)

PSO 1	Understand the basic principles of natural phenomena.
PSO 2	Understand the basic concepts of mechanics, electromagnetic theory, waves, acoustics, optics, thermodynamics, statistical mechanics, relativity, quantum mechanics, atomic, molecular and nuclear
PSO 3	Understand the applications of principles of physics in modern technology for betterment and comfort of human beings.
PSO 4	To perform experiments related to principles of physics to better understanding of concepts and applications.

Program Specific Outcome M.Sc. (Physics)

PSO 1	Understand the principles and concepts in detail regarding classical mechanics, quantum mechanics, electronics, electrodynamics, plasma physics, statistical mechanics, solid state physics digital communication
PSO 2	To understand the procedure and perform experiment regarding basic physics, semiconductor devices and digital electronics.
PSO 3	Learning of assembling, fabrication and instrumentation of some instruments under minor project of M.Sc.(Physics) curriculum.
PSO 4	Learning of preparation of study material/seminar files/project report/minor research paper.
PSO 5	Developed capability to deliver a lecture or to present the seminar or project report before classmates and teachers

Program Outcomes B.Sc. (Physics)

PO1	Gained basic knowledge of overall science subjects including physics, chemistry and mathematics.
PO2	Improved ability to think about any problem and to try to find out its solution.
PO3	Gained ability to solve various types of questions like multiple choice questions, very short answer type questions and long answer type questions.
PO4	Improved ability to express views before a group of friends and teachers by group discussion session.
PO5	Hesitation went out to ask any doubt to teacher and to discuss about it.
PO6	Learned the art of expansion of any topic and to analyze any problem on the basis of self view, by preparation of assignment on a specific topic.
PO7	Developed some character of leadership to represent any problem of the class before college administration.
PO8	Developed some qualities regarding extracurricular and co-curricular activities by youth festival and annual function etc.
PO9	Developed some qualities to take responsibilities regarding social work like Clean India Mission, voter awareness, plantation and other contemporary social works.
PO10	By visit of some industrial sites became able to understand the basic mechanism of the industrial plants.

Program Outcomes M.Sc. (Physics)

PO1	Gained basic and detailed knowledge of physics including mathematical physics, classical and quantum mechanics, atomic and molecular physics, solid state physics, nuclear and particle physics, computational methods, basic electronics, digital electronics, telecommunication etc.
PO2	Developed ability to apply the principles of physics to solve some relevant problems.
PO3	Developed the art to expand any topic or to summarize any detailed discussion i.e. to prepare abstract of any literature.
PO4	Developed ability to express views before a group of friends and teachers and to analyze any topic with the help of group discussion and seminar presentation
PO5	Hesitation went out to discuss any matter or topic with the teachers.
PO6	Developed quality to analyze any given problem and to prepare a project report.
PO7	Became capable to think that how one can apply any principle of science particularly that of physics to solve or analyze any social or environmental issue.

Course outcomes M.Sc. Sem-I (Physics)

CO1	Study of vector algebra and vector calculus, complex number, differential equations, special functions and Laplace transform
CO2	To understand the concepts of classical mechanics including D'Alembert principle, Gallilean transformation, central force and Hamilton Jacobi equation etc.
CO3	Concepts of quantum mechanics including Ehrenfest theorem, potential well and barrier, commutation relations, spherical symmetric potential, time independent perturbation
CO4	Basic ideas of BJT, FET, amplifier, UJT, microwave devices, optoelectronic devices and memory devices.

Course outcomes M.Sc. Sem-I (Physics), Lab Course (A)

CO1	Determines the Young's modulus of glass
CO2	Determines the wavelength of monochromatic light
CO3	Study the hysteresis curve ferromagnetic materials
CO4	Determines the ionisation potential of gas and also Richerdson coefficient
CO5	Determines the Planck's constant and verify the inverse square laws and also performs other experiments of equal standards.

Course outcomes M.Sc. Sem-I (Physics), Lab Course (B)

CO1	Determines e/m by Thomson's method
CO2	Uses the laser beam to determine the thickness of wire and to dermine the wavelength with the help of grating
CO3	Measurement of resistivity of semiconductor by four probe method
CO4	Studies of characteristics of semiconductor devices
CO5	Studies of regulated power supply and RC coupled amplifier and other experiments of equal standard

Course outcomes M.Sc. Sem-II (Physics)

CO1	Basic ideas of advanced quantum mechanics including WKB approximation, higher order perturbation theory, scattering, identical particles and relativistic quantum mechanics.
CO2	Study of statistics and thermodynamics including ensemble, different statistics, phase transition, fluctuation and transport phenomenon
CO3	Basic knowledge of electrodynamics and plasma physics including Maxwell equations, motion of charged particles in electromagnetic field, basic concept of plasma and Appleton
CO4	Study of atomic and molecular physics including spectra of alkali atoms, Pauli principle, LS, JJ coupling, types of molecules, vibration energy of diatomic molecules and Raman spectroscopy.

Course outcomes M.Sc. Sem-II (Physics), Lab Course (A)

CO1	Determines h-parameters of transistor
CO2	Studies the characteristics of transistors
CO3	Studies of varactor diode
CO4	Studies of characteristics of FET
CO5	Studies of emitter follower and other experiments of equal standard

Course outcomes M.Sc. Sem-II (Physics), Lab Course (B)

CO1	Study of characteristics of MOSFET
CO2	Study of characteristics of SCR
CO3	Study of characteristics of LED
CO4	Study of BCD and seven segment display
CO5	Study of logic gates and verification of de-Morgan theorem. Also performed the other experiments of equal standard

Course outcomes M.Sc. Sem-III (Physics)

CO1	Elementary idea of crystalline solid, interaction of X-ray with matter, motion of electrons in periodic lattice, superconductivity, Langevin theory of magnetism etc.
CO2	Study of nuclear and particle physics including properties of nucleon, nuclear forces, nuclear decays, nuclear models, nuclear reactions and elementary particles.
CO3	Basic ideas of operational amplifiers and digital electronics including differential amplifier, communication electronics, number system, logic gates and sequential logic
CO4	Study of analog and digital system, photo electronics, photo detectors, microwave devices, radar system and satellite communication.

Course outcomes M.Sc. Sem-III (Physics), Lab Course (A)

CO1	Study of half adder and full adder
CO2	Study of shift register
CO3	Study of flip flop using NAND gate
CO4	Study of operational amplifier and its uses
CO5	Studies of photo diode and other experiments based on solid state physics

Course outcomes M.Sc. Sem-III (Physics), Lab Course (B)

CO1	Study of modulation and demodulation: PAM, PPM, PWM
CO2	Study of A/D conversion and D/A conversion
CO3	Studies of multiplexing and demultiplexing
CO4	Studies of different types of multivibrators
CO5	Operational amplifiers as function generators and other experiments of equal standard

Course outcomes M.Sc. Sem-IV (Physics)

CO1	Computational methods and programming including basic computer programming, arithmetic expressions, solution of linear and non-linear algebraic equations, finite differences, interpolation, curve fitting and solution of differential equations
CO2	Elementary idea of laser physics and spectroscopy including basic principle of laser, optical resonator, concept of spectroscopy, its types and applications
CO3	noise in pulse-code and delta modulation system, Computer communication system and mobile radio and satellite.
CO4	Basic knowledge of microprocessor including digital computer, secondary memory, networking, timing diagram, machine and assembly language, optical fiber and its type.

Course outcomes M.Sc. Sem-IV (Physics), Lab Course , Computer Programming

CO1	Computer programming in 'C' language for different mathematical programmes
CO2	Computer programming in 'C' language for different numerical analysis
CO3	Practice of other computer programming which may be useful in calculation of experimental observations

Course outcomes M.Sc. Sem-IV (Physics), Project Work

CO1	Students are assigned a project work involving the design and study of some electronic circuit/designs
CO2	apparatus.
CO3	By completing the project work, the students gain the self confidence and also have the practical experience
CO4	Students are oriented towards research work
CO5	The project work enhances the technical skills of the students they take more interest in the instruments and their working

Course outcomes B.Sc. Sem-I (Physics)

CO1	Understands the basic mathematical concepts which are commonly used in the study of physics
CO2	Becomes aware of basic concepts of mechanics like laws of motion, laws of conservation, properties of matter etc.
CO3	Gains basic knowledge of oscillations, rigid body motion,
CO4	Knows about basic laws of electrostatics like Coulomb's law, Gauss's law and their applications.
CO5	Understands properties of matter such as elasticity, surface tension, viscosity etc.

Course outcomes B.Sc. Sem-II (Physics)

CO1	Understands basic laws of electrostatics like Coulomb's law, Gauss's law and their applications.
CO2	Gains basic knowledge of dielectrics and alternating current
CO3	Understands the concept of superposition and harmonic motion
CO4	Understands the basic concept of Magnetostatics, electromagnetic theory and current electricity.
CO5	Learns to solve conceptual questions, application based numerical problems and long answer type problems related

Course outcomes B.Sc. Sem-I/II (Physics Practicals)

CO1	Learn to perform experiments based on the concept of properties of matter and electric current
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Course outcomes B.Sc. Sem-III (Physics)

CO1	Understands the basic concepts of waves and acoustics
CO2	Learn about linear optics and optical instruments
CO3	Understands the basic concept of interference of light
CO4	Understands the basic concept of diffraction and polarisation of light
CO5	Gains basic knowledge of laser and its applications

Course outcomes B.Sc. Sem-IV (Physics)

CO1	Understands the basic concepts of thermodynamics
CO2	Becomes aware of thermodynamic relationship
CO3	Learn about kinetic theory of gases and transport phenomenon etc.
CO4	Gains basic knowledge of statistical basis of thermodynamics and knows about quantum statistics
CO5	Learns to solve conceptual questions, application based numerical problems and long answer type problems related

Course outcomes B.Sc. Sem-III/IV (Physics Practicals)

CO1	Learn to perform experiments based on thermodynamics, basic electronics and physical optics.
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Course outcomes B.Sc. Sem-V (Physics)

CO1	Understands the concept of reference frames, special theory of relativity and its consequences
CO2	Knows about the failure of classical mechanics and origin of quantum mechanics
CO3	Gets detailed knowledge of Schrodinger's equation and its applications
CO4	Becomes aware of hydrogen spectrum and Raman effect
CO5	Understands the working of nuclear detectors. Knows about nuclear structure and nuclear reactions

Course outcomes B.Sc. Sem-VI (Physics)

CO1	Gains basic knowledge of crystal structure and theories about the solids
CO2	Gains basic knowledge of metal insulator and semiconductor and also about dia-, para- and ferro-magnetism
CO3	Understands the concept of semiconductor and its uses in diodes and transistors
CO4	Learns about construction and working of rectifiers and amplifiers
CO5	Gets basic knowledge of computer organisation and C programming. Also Learns to solve conceptual questions,

Course outcomes B.Sc. Sem-V/VI (Physics Practicals)

CO1	Learn to perform experiments based on electronics, optics and nuclear physics.
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M. Sc. – Zoology

Program specific outcome - Sem. III

PSO-1	Gain knowledge about comparative anatomy of vertebrates.
PSO-2	Learn about the biology of vertebrate immune system.
PSO-3	Learn about the gamete biology and reproductive physiology
PSO-4	Gain knowledge about population genetics and evolution
PSO-5	Learn about the distinguishing morphological, anatomical characters of vertebrates. Histochemical techniques, Microtomy techniques.

Course outcome - Sem. III : comparative anatomy of vertebrates-

CO-1	Learn about the evolutionary path of chordate origination.
CO-2	Gain knowledge about how the habitat compel the animal for adjustment.
CO-3	Understand the developmental process and advancement of vertebrate brain.
CO-4	Gain knowledge about the structural variation of respiratory organs adopted for aquatic & terrestrial life of vertebrates.
CO-5	Understand the changes occur according to food and feeding habit of vertebrates.

Course outcome - Sem. III : Biology of vertebrates immune system -

CO-1	Learn about the different antigen enters into the body & specific response by antibody .
CO-2	Knowledge about sever diseases like cancer, AIDS, Allergy, Erythroblastic foetaliasis cured by modern vaccines.
CO-3	Understand the role of T-cells, B- cells, specific phagocytic cells cure body against antigen
CO-4	Gain knowledge about the body hypersensitivity causes and response.
CO-5	Understand the process of preparation of vaccines.

Course outcome - Sem. III : Gamete biology and reproductive physiology -

CO-1	Familiarity with the process of fertilization with a comparative account of different events involved.
CO-2	Gain knowledge about regulation of testicular and ovarian functions.
CO-3	Knowledge of role of hormones in physiology of reproduction.
CO-4	Knowledge of regulation of reproductive cycle in female: menstrual cycle in human, estrous cycle
CO-5	Generating awareness on contraception leading to prevention of polyspermy: surgical, hormonal and immunocontraception.

Course outcome - Sem. III : Population genetics and evolution -

CO-1	Learn about the impact of Hardy - Weinberg law in population genetics .
CO-2	Gain knowledge about various evidences how they are supporting evolutionary process.
CO-3	Gain knowledge about fossilization & its significance in evolution.
CO-4	Gain knowledge about the gradual evolutionary process & evidences of evolution of man.
CO-5	Learn about the process how gene is shaping animal life day by day.

Course outcome - Sem. III : Lab course – I

CO-1	Gain knowledge about the distinguishing taxonomic characters of different vertebrates.
CO-2	Students will be able to gain anatomical knowledge about of various organs & systems.
CO-3	Helpful for the study and documentation of chordates of different habitat.
CO-4	Gain knowledge about the permanent mounting techniques of vertebrate body parts.
CO-5	Student will be able to artistic display of organs& systems by clay modeling.

Course outcome - Sem. III : Lab course – II

CO-1	Gain knowledge about the haematin crystal of different vertebrates. .
CO-2	Students will be able to understand the homologous and analogous organs of animals.
CO-3	Understand the cytotechniques used in somatic and germ cell studies.
CO-4	Gain knowledge about the complete procedure of microtomy for permanent preparation.

CO-5	Student will be able to prepare permanent mount of cells.
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M. Sc. – Zoology

Program specific outcome - Sem. IV

PSO-1	Gain knowledge about comparative and human physiology
PSO-2	Learn about the biochemistry, biophysics, bioenergetics and metabolism.
PSO-3	Learn about the Ichthyology.
PSO-4	Understand the aquaculture and fisheries.
PSO-5	Learn about the haematological techniques by using scientific instruments. Learn about the Piscine diversity, its documentation, Identification by morphometric and meristic procedures.

Course outcome - Sem. IV : Comparative and human physiology

CO-1	Learn about the characteristics of blood groups, Bombay blood group.
CO-2	Understand the cardiac cycle and ECG interpretation.
CO-3	Learn about the chemical process during muscle contraction.
CO-4	Gain knowledge about the oxygen related problems.
CO-5	Understand the mechanism and chemistry of light emission by animals. comparative knowledge of photo & phone receptors.

Course outcome - Sem. IV : Biochemistry, biophysics, bioenergetics and metabolism

CO-1	Learn about the water property, pH, osmolarity.
CO-2	Understand the process of metabolism of intake of Carbohydrate, protein and lipid.
CO-3	Learn about the role & act of enzymes, vitamins and minerals in body.
CO-4	Gain knowledge about the liberation of energy for regulation of biological activities.
CO-5	Gain knowledge of proteins at molecular level.

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DEPARTMENT OF ZOOLOGY
M. Sc. – Zoology

Program specific outcome - Sem. I

PSO-1	Gain knowledge of structure and function of Invertebrates
PSO-2	Learn about the ultra structure of cell and cell organelles in molecular cell biology.
PSO-3	Learn about the General and comparative endocrinology
PSO-4	Understand the Environmental physiology and ecology.
PSO-5	Learn about the presentation of organs & systems by clay modeling, micro-techniques, analysis methods. Application of Scientific instruments.

Course outcome - Sem.I : Structure and Function of Invertebrates

CO-1	Learn about the life cycle, propagation, and physiology of various systems of Invertebrates
CO-2	Understand the Metallic components of respiratory & its efficiency in O ₂ , Co ₂ transport .
CO-3	Learn about the process of advancement of nervous system in higher invertebrates.
CO-4	Gain knowledge about the parasite & how it change the gender of the host.
CO-5	Understand how larvae support the evolution theory of Hackel.

Course outcome - Sem.I : Molecular cell biology

CO-1	Gain advanced knowledge in the specialized fields of molecular and cell biology.
CO-2	Understand the instrumental techniques required in cell study.
CO-3	Learn about the contribution of chemical at molecular level structuring the cell organelle .
CO-4	Gain knowledge about the process of cell death.
CO-5	Learn about the process in which normal cell change into cancer cell.

Course outcome - Sem.I : General and comparative endocrinology -

CO-1	Students will be able to describe major actions of each hormone on target cells.
CO-2	Students will be able to describe major signaling pathways in target cells for each hormone.
CO-3	Learn about the neuro-endocrine coordination.
CO-4	Gain knowledge about the impact of hormone in behavior.
CO-5	Student will be able to describe the sign hormonal imbalance and disorders.

Course outcome - Sem.I : Environmental physiology and ecology -

CO-1	Students will be able to describe the impact of stress on ecosystem.
CO-2	Students will be able to gain knowledge about the factors forcing the lives for adaptation.
CO-3	Helpful for the study of local flora and fauna of different habitat.
CO-4	Gain knowledge about the role of toxicants in environment & solid waste management.
CO-5	Student will be able to describe the utilization of non-conventional energy.

Course outcome - Sem.I : Lab course – I

CO-1	Gain knowledge about the distinguishing characters of different invertebrate specimens.
CO-2	Students will be able to gain anatomical knowledge about of various invertebrates..
CO-3	Helpful for the study and documentation of local fauna of different habitat.
CO-4	Gain knowledge about the permanent mounting techniques.
CO-5	Student will be able to describe the taxonomic position of invertebrates..

Course outcome - Sem.I : Lab course – II

CO-1	Gain knowledge about the analysis methods of water with reference to different parameters
CO-2	Students will be able to operate different analytical instruments.
CO-3	Understand the cytotechniques used in cell studies.
CO-4	Gain knowledge about the separation technique of DNA from banana.
CO-5	Student will be able to learn different permanent mounting techniques of cells.

M. Sc. – Zoology

Program specific outcome - Sem. II

PSO-1	Gain knowledge about external, internal structure and their functioning in Insects.
PSO-2	Learn about the wildlife animals and their conservational biology.
PSO-3	Learn about the molecular biology and cytogenetics.
PSO-4	Gain knowledge about biostatistics and tools and techniques for biology..
PSO-5	Learn about the distinguishing morphological, anatomical characters of insects. Data collection, analysis and presentation methods.

Course outcome - Sem. II : Insect physiology -

CO-1	Learn about the detail taxonomic key characters to classify the insects.
CO-2	Understand the principles and methods of managing beneficial and pest insect populations
CO-3	Understand the evolutionary and ecological relationships of insects with other life forms and the impact of insects relative to human health and well being and animal and plant health.
CO-4	Gain knowledge about the respiratory organs adopted for aquatic & terrestrial life of insect.
CO-5	Understand the Diapause and its endocrine control and its essentiality.

Course outcome - Sem. II : Wild life ecology and conservation biology -

CO-1	Learn about evaluate, and apply scientific principles to the ecology and conservation of wild vertebrates..
CO-2	Understand a conceptual framework to solve problems in animal ecology and make informed management decisions.
CO-3	Use contemporary tools and techniques for studying wildlife, habitat, and ecosystem processes.
CO-4	Gain knowledge about the In-situ and ex-situ conservation methods.
CO-5	Understand the wild life protection Act, 1972.& Forest law, 1980 & rules, 2003

Course outcome - Sem. II : Molecular biology and cytogenetics -

CO-1	The course enables students to gain basic skills in molecular diagnosis and karyotyping.
CO-2	Gain knowledge about DNA finger printing and its application.
CO-3	Learn about the molecular structure of gene, replication and function.
CO-4	Gain detail knowledge about the genetic code .
CO-5	Understand the characters linked with X, Y chromosomes and their inheritance.

Course outcome - Sem. II : Biostatistics and tools and techniques for biology -

CO-1	Understanding of basic concepts of instrumentation such as cell fractactionation, homogenation and centrifugation
CO-2	Students gain skills in techniques of chromatography, electrophoresis and spectroscopy .
CO-3	Students gain skills in histological, immunological and electrophysiological techniques and
CO-4	Students gain skills in basics of computers, operating systems, overview of programming languages.
CO-5	Application of internet and statistical bioinformatics in research.

Course outcome - Sem. II : Lab course – I

CO-1	Gain knowledge about the distinguishing taxonomic characters of different Insects.
CO-2	Students will be able to gain anatomical knowledge about of various insects..
CO-3	Helpful for the study and documentation of local insect of different habitat.
CO-4	Gain knowledge about the permanent mounting techniques of insect body parts.
CO-5	Student will be able to describe the adaptive modification of mouth parts of insects..

Course outcome - Sem. II : Lab course – II

CO-1	Gain knowledge about the analysis methods of water .
CO-2	Students will be able to operate different instrument.
CO-3	Understand the cytotechniques used in cell studies.
CO-4	Gain knowledge about the separation technique of DNA from banana.
CO-5	Student will be able to prepare permanent mount of cells.

Course outcome - Sem. IV : Ichthyology

CO-1	Learn about the detail classification of fishes.
CO-2	Understand the various adaptive modification of fishes according to their habitat.
CO-3	Learn about the exotic fishes and their purpose of introduction in India.
CO-4	Gain knowledge about the ancient extant crossopterygian fish Latimeria.
CO-5	Gain knowledge about the various parenting methods among fishes.

Course outcome - Sem. IV : Aquaculture and fisheries

CO-1	Learn about the principal cultivable fishes for successful fish farming.
CO-2	Understand the various types of fishing craft and gears including local contrivances.
CO-3	Learn about the economic importance of fish including edible, non-edible, harmful, vector, destroyer.
CO-4	Gain knowledge about the rural, urban, metro, international market & marketing system.
CO-5	Gain knowledge about the carefully utilization and management of aquatic resources.

Course outcome - Sem. IV : Lab course – I

CO-1	Gain knowledge about the distinguishing taxonomic characters of different vertebrates.
CO-2	Students will be able to gain anatomical knowledge about of various organs & systems.
CO-3	Helpful for the study and documentation of chordates of different habitat.
CO-4	Gain knowledge about the permanent mounting techniques of vertebrates body parts.
CO-5	Student will be able to artistic display of organs & systems by clay modeling.

Course outcome - Sem. IV : Lab course – II

CO-1	Gain knowledge about the preparation of articulated skeleton of various fishes.
CO-2	Students will be able to identify local freshwater fishes.
CO-3	Students will be able to record the ichthyofaunal status of the area.
CO-4	Gain knowledge about the writing & presentation of small project work.
CO-5	Student will be able to identify aquatic weeds, insects, predatory & weed fishes, common fish diseases. Also learn about artificial breeding techniques.

*** PROJECT WORK : SEMESTER – IV (IN PLACE OF LAB COURSE –II - OPTIONAL)**

Course outcome – Semester – IV : Project work

CO-1	Understanding of scientific method, concepts and steps in research.
CO-2	Differentiate between the Quantitative and Qualitative Research and understand different types of Research Design
CO-3	Understand the various techniques of Data Collection- Observation, Questionnaire, Interview Schedule; Case Study, Content Analysis
CO-4	Gain knowledge about Describing various types of Sampling

M Sc Chemistry

Program Specific Outcomes

PSO 1	Gains complete knowledge about fundamental aspects of all the elements of chemistry
PSO 2	Understands the background of organic reaction mechanism complex chemical reactions
PSO 3	Understands importance of elements present in periodic table, coordination chemistry and structure of molecules ,properties of compounds , structural determination of complexes
PSO 4	Learn about potential use of industrial chemistry , medicinal chemistry
PSO 5	Carry out experiments of organic analysis, estimation ,separation

Course outcomes Inorganic Chemistry -1

CO 1	Understands different types of bonding in main group compounds
CO 2	Understands different special arrangement of ligands around metal
CO 3	Learn symmetrical properties of molecules
CO 4	Understands different types of π complexes
CO 5	Understands different types of polymers of phosphorous , silicon and boron

Course outcomes Organic Chemistry -1

CO 1	Understands nature of bonding in organic compounds
CO 2	Learn the fundamentals of reaction mechanisms
CO 3	Understands the mechanism of nucleophilic substitution and elimination reactions
CO 4	Understands about free radicals and their properties
CO 5	Understands the electrophilic substitution reactions

Course outcomes Physical Chemistry -1

CO 1	Apply different mathematical concepts to be used in chemistry
CO 2	Apply quantum mechanical treatment to different system
CO 3	Learn different types of thermodynamical aspects
CO 4	Understands different arrangements of single and many electron in orbitals
CO 5	Apply Huckel molecular methods to different systems

Course outcomes Spectroscopy -1

CO 1	Understands different types of radiations
CO 2	Understands effect of radiations on vibrational and rotational modes of molecules
CO 3	Determines bond distance and moment of inertia
CO 4	Identify different functional groups in molecules
CO 5	Understands spectra of molecules and atoms

Course outcomes Lab course -I

CO 1	Separates different ions in inorganic mixture
CO 2	Identify different ions in inorganic mixture
CO 3	Separates ions through gravimetric methods
CO 4	Separates ions through chromatography
CO 5	Estimation compounds in raw materials

Course outcomes Lab course II

CO 1	Separates different ions in organic mixture
CO 2	Identify different ions in organic mixture
CO 3	Estimates functional groups in compounds
CO 4	Synthesize organic molecules
CO 5	Determines equivalent weights of molecules

Course outcomes Inorganic Chemistry -II

CO 1	Understands reaction mechanism in transition metal complexes
CO 2	Understands electronic spectra of metal complexes
CO 3	Learn magnetic properties of metal complexes
CO 4	Understands about metal clusters
CO 5	Understands about kinetics of formation of complexes

Course outcomes Organic Chemistry -II

CO 1	Understands stereochemistry of organic molecules
CO 2	Learn formation of molecules on addition on carbon hetro multiple bonds
CO 3	Learn formation of molecules on addition on carbon carbon multiple bonds
CO 4	Gains knowledge about pericyclic reactions
CO 5	Gains different theoretical aspects of pericyclic reactions

Course outcomes Physical Chemistry -II

CO 1	Apply different mathematical concepts to be used in chemistry
CO 2	Understands the theory of statistical thermodynamics
CO 3	Understands the electrochemical phenomenon of solutions
CO 4	Apply kinetics to various chemical reactions
CO 5	Apply theories to various chemical reactions

Course outcomes Spectroscopy and computer for chemist

CO 1	Gains knowledge about nmr spectra
CO 2	Gains knowledge about esr and nqr spectra
CO 3	Gains knowledge about mossbauer spectra
CO 4	Understands functions of computer
CO 5	Develop programming in C to different mathematical equations

Course outcomes Lab course -III

CO 1	Prepare different chemicals
CO 2	Verify Lambert Beer Law
CO 3	Uses spectrophotometer to find concentration of ions
CO 4	Uses conductometer to different acid –base system
CO 5	Uses colorimeter to find formula of complexes

Course outcomes Lab course IV

CO 1	Uses conductometer to different combination of acid –base system
CO 2	Estimates carbohydrates spectrophotometrically
CO 3	Estimates protein spectrophotometrically
CO 4	Estimates amino acids spectrophotometrically
CO 5	Extracts organic compounds from their raw materials

Course outcomes Biochemistry Chemistry -1

CO 1	Learn role of metal ions in biological system
CO 2	Understands bioenergetics and ATP cycle
CO 3	Understands electron transfer in biological system
CO 4	Understands transport and storage of dioxygen
CO 5	Understands nitrogen fixation

Course outcomes Natural Products

CO 1	Apply rules to determine structure of terpenoids and carotenoids
CO 2	Apply rules to determine structure of alkaloids
CO 3	Apply rules to determine structure of steroids
CO 4	Apply rules to determine structure of porphyrins
CO 5	Apply rules to determine structure of plant pigments

Course outcomes Environmental chemistry

CO 1	Understands ecosystem
CO 2	Gains knowledge of energy resources
CO 3	Understands components of atmosphere
CO 4	Estimates pollutants release from different industries
CO 5	Understands effect of toxic compounds

Course outcomes Spectroscopy -II

CO 1	Analyses the physical approach of IR spectra
CO 2	Gains knowledge of nmr, esr and uv-visible spectra
CO 3	Understands C 13 spectra
CO 4	Gains knowledge of nmr of other elements
CO 5	Gains theory of mass spectra

Course outcomes Lab course -V

CO 1	Learns the importance of chemical reactions against time
CO 2	Determines presence of ions in solution by spectrophotometer
CO 3	Determines concentration of ions in solution by spectrophotometer
CO 4	Learn importance of pH meter in titration
CO 5	Determines concentration of acid in solution by pH meter

Course outcomes Lab course VI

CO 1	Determines concentration of mixtures acid in solution by pH meter
CO 2	Learn importance of conductometric titration
CO 3	Determines concentration of a compound in solution by conductivitymeter
CO 4	Learn role of soap in cleaning action
CO 5	Categorize different soap on the basis of cleaning power

Course outcomes Analytical Chemistry

CO 1	Identify errors in data
CO 2	Apply different test to analyze data
CO 3	Gains knowledge of food components
CO 4	Estimates water pollutants
CO 5	Gains knowledge of soil, fuel components

Course outcomes Biochemistry Chemistry -II

CO 1	Learn about cell and its structure
CO 2	Understands functions of enzymes
CO 3	Learn fundamentals of enzyme action
CO 4	Understands thermodynamics of biopolymer solutions
CO 5	Learns structure and functions of cell membrane transport

Course outcomes Medicinal Chemistry

CO 1	Understands development of drug design
CO 2	Learn pharmacokinetics in defining drug deposition
CO 3	Understands significance of drug metabolism
CO 4	Gains knowledge of cause of cancer and its treatment
CO 5	Gains knowledge about antibiotics

Course outcomes Polymer and Nuclear Chemistry

CO 1	Learn about polymers
CO 2	Understands surface phenomenon
CO 3	Learn about surface active agents
CO 4	Learn about corrosion
CO 5	Gains knowledge about nuclear phenomenon

Course outcomes Photochemistry & Solid State Chemistry

CO 1	Understands photochemistry of carbonyl compounds
CO 2	Understands photochemistry of alkenes, dienes and aromatic compounds
CO 3	Understands photochemical phenomenon in natural phenomenon
CO 4	Learn importance of X ray in solid state
CO 5	Learn properties of solids

Course outcomes Lab course -VII

CO 1	Analyze fuels
CO 2	Estimates water pollutant parameters
CO 3	Understands and uses turbidimetry
CO 4	Analyze elements by flamphotometry
CO 5	Estimates molecular weights of polymer

Course outcomes Lab course VIII

CO 1	Estimates mixture of compounds by conductivitymeter
CO 2	Fits curve from given data
CO 3	Understands theory of polarimetry
CO 4	Apply polarimeter in kinetic study of optically active substances
CO 5	Estimates sugar in different materials

B Sc Chemistry

Program Outcomes

Students will be able to understand all major concepts of chemistry.

Students will employ critical thinking and scientific methods to carry out and analyze results of experiments.

Students will get an awareness of impact of chemistry on environment, society, and other culture outside the scientific community

B Sc Chemistry

Program Specific Outcomes

Students will explain chemical nomenclature, structure, reactivity, and functions in their specific field of chemistry.

Students will develop execution of experiments and proper handling of chemicals.

Students will explain how to relate chemistry with real world

B Sc Chemistry Course outcomes Physical organic and inorganic chemistry

CO 1	Learn mathematical concepts
CO 2	Understands effect of ion in properties of liquid
CO 3	Understands atomic structure and periodic table
CO 4	Learn bonding forces in organic compounds
CO 5	Learn bonding and nomenclature in organic compounds

Course outcomes Physical organic and inorganic chemistry

CO 1	Understands properties of solid and colloidal states
CO 2	Learn kinetic aspects of chemical reactions
CO 3	Understands properties of group elements
CO 4	Understands structure of aromatic compounds
CO 5	Learn about stereochemistry of organic molecules

Course outcomes Lab course -I

CO 1	Identify unknown organic compounds
CO 2	Estimates compounds present in solution
CO 3	Apply various theories of purification of compounds
CO 4	Experiments the kinetics of chemical reactions
CO 5	Separates components of liquid mixture

Course outcomes Physical organic and inorganic chemistry

CO 1	Understands the air pollutants
CO 2	Understands the water pollutants
CO 3	Learn chemical basis of separation of ions
CO 4	Understands principle behind volumetric analysis
CO 5	Understands the estimation of elements and groups

Course outcomes Physical organic and inorganic chemistry

CO 1	Learn about thermodynamic basis of properties of system
CO 2	Understands first and second law of thermodynamics and its applications
CO 3	Understands properties of chemistry of rare elements
CO 4	Understands preparation and properties of alcohols
CO 5	Understands preparation and properties of aldehydes and ketones

Course outcomes Lab course II

CO 1	Understands and apply semi microanalysis
CO 2	Synthesize inorganic complexes
CO 3	Identify organic compounds in organic mixture
CO 4	Synthesize organic molecules
CO 5	Apply chromatographic separation method

Course outcomes Physical organic and inorganic chemistry

CO 1	Understands properties of different phases
CO 2	Learn quantum mechanics and apply quantum mechanics to different system
CO 3	Understands complex compounds and its formation kinetics
CO 4	Understands preparation and properties of alcohols
CO 5	Understands preparation and properties of compounds containing nitrogen and carbohydrates

Course outcomes Physical organic and inorganic chemistry

CO 1	Understands electrochemical phenomenon around electrodes
CO 2	Learn properties of acid and bases
CO 3	Understands principles of spectroscopy
CO 4	Learn about organometallic compounds
CO 5	Understands application of spectroscopy

Course outcomes

Lab course III

CO 1	Apply principle of gravimetric analysis
CO 2	Apply principle of conductometric titration
CO 3	Verify law of refraction
CO 4	Determines molecular weights
CO 5	Verify Lambert-Beers law

Faculty of Commerce

B.Com. - Three years degree course

Course Outcome

B.Com. - 1st Semester

PAPER -II - FINANCIAL ACCOUNTING

- CO1** - Understands Double Entry System of Accounting.
- CO2** - Understands Final Accounts with Adjustment.
- CO3** - Understands Concept of Depreciation with various methods.
- CO4** - Understands Branch & Department Accounts
- CO5** - Understands Accounting in a Partnership Firm.

PAPER -III - BUSINESS COMMUNICATION

- CO1** - Understands concept and Theories of communication and SWOT analysis
- CO2** - Understands Corporate Communication networks and reports writing.
- CO3** - Understands Writing Skills,
- CO4** - Understands Report Writing : Oral Presentation: effective presentation skills.
- CO5** - Understands Non-Verbal Aspects of Communicating. Body language: Effective listening.

PAPER -IV - BUSINESS ENVIRONMENT

- CO1** - Gains knowledge about Indian Business Environment.
- CO2** - Gains knowledge about Problems of Growth.
- CO3** - Gains knowledge about various economic policies of India.
- CO4** - Gains knowledge about the current 5 Year Plan, major Policy. Resources Allocation.
- CO5** - Gains knowledge about Trends in world trade and the problems of developing countries.

B.Com. - 2nd Semester

PAPER -II - BUSINESS MATHEMATICS

- CO1** - Learns Calculus and Differentiation.
- CO2** - Learns Matrices and Determinants .
- CO3** - Learns Linear Programming.
- CO4** - Learns Simple Interest and Compound interest , Annuities .
- CO5** - Learns Theory of Logarithms, commission, profit and loss.

PAPER -III - BUSINESS REGULATORY FRAMEWORK

- CO1** - Gains knowledge of Law of Contract (1872)
- CO2** - Gains knowledge of Performance / discharge of contract, remedies for breach of contract.
- CO3** - Gains knowledge of Special Contracts: Indemnity; Guarantee; Bailment and pledge; Agency.
- CO4** - Gains knowledge of Sale of Goods Act 1930
- CO5** - Gains knowledge of Negotiable Instrument Act 1881

PAPER -IV - BUSINESS ECONOMICS

- CO1** -Gains knowledge of Basic problems of an economy; Elasticity of Demand, Price.
- CO2** -Gains knowledge of Production Function.
- CO3** -Gains knowledge of Theory of Costs.

- CO4** -Gains knowledge of Market Structures : Monopoly , Monopolistic Competition.
- CO5** -Gains knowledge of Factor pricing - rent - Interests, concepts and theories of profit.

B.Com. - 3rd Semester

PAPER -II - CORPORATE ACCOUNTING

- CO1** - Gains knowledge of Issue, Forfeiture and Re issue of Shares and Debentures.
- CO2** - Gains knowledge of Final Accounts. Liquidation of Company.
- CO3** - Gains knowledge of Valuation of Goodwill , Valuation of Shares.
- CO4** - Gains knowledge of Accounting of Amalgamation and Internal Reconstruction.
- CO5** - Gains knowledge of Accounting of Holding Companies and Banking Companies.

PAPER -III - BUSINESS STATISTICS

- CO1** - Gains knowledge of Statistics as a subject. construction of frequency distribution, concept of central tendency.
- CO2** - Gains knowledge of Dispersion and their measures, Skewness and measures.
- CO3** - Gains knowledge of Analysis of bivariate data, linear regression two variables and correlation.
- CO4** - Gains knowledge of Index Number , Analysis of time series.
- CO5** - Gains knowledge of Forecasting and methods. Theory of Probability.

PAPER IV - PRINCIPLES OF MANAGEMENT

- CO1** - Gains knowledge of Management, An overview of functional areas of management.
- CO2** - Gains knowledge of Planning , Decision Making , MBO, Corporate planning.
- CO3** - Gains knowledge of Organizing, Centralization and decentralization, Departmentation, Organization structure forms and contingency factors.
- CO4** - Gains knowledge of Motivating and leading people at work , Communication .
- CO5** - Gains knowledge of Managerial Control .

B.Com. - 4th Semester

PAPER- II - COST ACCOUNTING

- CO1** - Gains knowledge about Cost Accounting : Introduction , nature and scope .
- CO2** - Gains knowledge about Accounting for Labor, Labor cost control procedure, Methods of wage payment.
- CO3** - Gains knowledge about Cost ascertainment . Unit Costing . Job, Batch and Contract Costing .
- CO4** - Gains knowledge about Operating Costing . Process costing .
- CO5** - Gains knowledge about Cost Records . Reconciliation of Cost and Financial Accounts. Break Even Point.

PAPER -III - COMPANY LAW

- CO1** - Gains knowledge about companies and Corporate Personalities.
- CO2** - Gains knowledge about Memorandum of Association , Articles of Association , Prospectus, Shares , Share capital transfer and transmission.
- CO3** - Gains knowledge about Capital Management, Directors – remuneration and duties.
- CO4** - Gains knowledge about Company Meeting – Kinds, Notice, Quorum , Voting, Proxy, Resolution, Minutes.
- CO5** - Gains knowledge about Majority powers and minority rights, Prevention of oppression and mismanagement. Winding up – Kinds and conduct.

PAPER -IV - FUNDAMENTALS OF ENTREPRENEURSHIP

- CO1** - Gains knowledge about Entrepreneurship and the entrepreneur.
- CO2** - Gains knowledge about Promotion of a Venture.
- CO3** - Gains knowledge about Entrepreneurial Behavior .
- CO4** - Gains knowledge about Entrepreneurial Development Programs (EDP).
- CO5** - Gains knowledge about Role of Entrepreneur.

संस्कृत

“एम.ए. प्रोग्राम आउटकम”

1. विद्यार्थी का बौद्धिक, चारित्रिक, सांस्कृतिक एवं सामाजिक विकास होगा।
2. प्राचीन ग्रंथों के अध्ययन पश्चात् नवीन अनुसंधान करने में समर्थ होगा।
3. प्राचीन ऋषियों द्वारा प्रदत्त ज्ञान को समझने में समर्थ होगा।

—00—

“प्रोग्राम स्पेसीफिक आउटकम”

1. वैदिक संस्कृत एवं लौकिक संस्कृत से परिचित होगा।
2. संस्कृत भाषा को बोलने, लिखने, समझने में समर्थ होगा।
3. संस्कृत के ज्ञान से संस्कारवान् एवं शिष्टाचारसम्पन्न होगा।
4. संस्कृत विषय में शोध करने की क्षमता का विकास होगा।
5. संस्कृत के ज्ञान से भाषा पर अधिकार प्राप्त करेगा।

—00—

“कोर्स आउटकम”

एम.ए. प्रथम सेमेस्टर, (प्रथम प्रश्न-पत्र)

शीर्षक – वैदिक भाषा तथा साहित्य

1. ऋग्वेद से परिचित होगा तथा उषस्, इन्द्र, सवितृ, वाक् इन सूक्तों का ज्ञान होगा।
2. ऋग्वेद के सरमापणि, हिरण्यगर्भ एवं रुद्र सूक्त का सम्यक् ज्ञान होगा।
3. शुक्लयजुर्वेद एवं अथर्ववेद से परिचित होगा तथा महत्वपूर्ण सूक्तों का ज्ञान होगा।
4. ईशावास्योपनिषद् के मन्त्रों का ज्ञान होगा तथा उपनिषद् से परिचित होगा।
5. पाणिनीय शिक्षा से संबंधित शिक्षा का बोध होगा तथा वर्ण एवं वर्णोच्चारण की विधि का ज्ञान होगा।

एम.ए. प्रथम सेमेस्टर, (द्वितीय प्रश्न-पत्र)

शीर्षक – व्याकरण, भाषा-विज्ञान तथा प्राकृत

1. व्याकरण— सभी कारक एवं कारक चिन्हों का ज्ञान प्राप्त होगा।
2. भाषा का स्वरूप, उद्गम, क्षेत्र, ध्वनि का गुण एवं वर्गीकरण का ज्ञान होगा।
3. भाषा विज्ञान के अंतर्गत अर्थतत्त्व एवं संबंधतत्त्व, भाषा का विकास एवं आकृति मूलक वर्गीकरण का ज्ञान प्राप्त करेगा।
4. भाषा विज्ञान के अन्तर्गत – भाषा, विभाषा, बोली, राष्ट्रभाषा, लिपि आदि का सम्यक ज्ञान प्राप्त करेगा।
5. प्राकृत भाषा का ज्ञान होगा तथा प्राकृत भाषा को समझने में समर्थ होगा।

एम.ए. प्रथम सेमेस्टर, (तृतीय प्रश्न-पत्र)

शीर्षक – दर्शन

1. आचार्य केशवमिश्र तथा तर्कभाषा के 16 पदार्थों का ज्ञान प्राप्त होगा।
2. सांख्य दर्शन एवं आचार्य कपिलमुनि से परिचित होगा।
3. आचार्य ईश्वरकृष्ण तथा सांख्यकारिका का ज्ञान होगा।
4. सांख्यकारिका का प्रतिपाद्य विषय (25 तत्व) का सम्यक् ज्ञान होगा।
5. सांख्य दर्शन के बारे में समझ विकसित होगा तथा स्वयं को जानने में सक्षम होगा।

एम.ए. प्रथम सेमेस्टर, (चतुर्थ प्रश्न-पत्र)
शीर्षक – साहित्यशास्त्र तथा सौन्दर्यशास्त्र

1. साहित्य के प्रमुख चिन्तक, भरत, दण्डी, वामन, आनन्दवर्धन, राजशेखर के सिद्धांतों से परिचित होगा।
2. मम्मटकृत काव्य प्रयोजन, काव्य हेतु, काव्यलक्षण एवं काव्य भेद का ज्ञान प्राप्त होगा।
3. नाट्यशास्त्र का ज्ञान प्राप्त होगा तथा नाट्य शास्त्र के श्लोकों का व्याख्या करने में समर्थ होगा।
4. नाटक की उत्पत्ति, प्रयोजन एवं वर्ण्यविषय का ज्ञान प्राप्त कर श्लोको की व्याख्या करने में समर्थ होगा।
5. नाट्यशास्त्र के अन्तर्गत, नाटकीय तत्व, नाट्यमण्डप तथा नाट्य संबंधी अन्य महत्वपूर्ण ज्ञान प्राप्त करेगा।

एम.ए. द्वितीय सेमेस्टर, (प्रथम प्रश्न-पत्र)
शीर्षक – वैदिक भाषा तथा साहित्य

1. महर्षि यास्ककृत निरुक्तम् ग्रन्थ से परिचित होगा।
2. वैदिक शब्दों की निरुक्तियाँ समझने में समर्थ होगा।
3. त्वष्टापुत्र विश्वरूप की कथा का सम्यक् ज्ञान होगा।
4. तैत्तिरीयप्रातिशाख्य का परिचय एवं वर्णोच्चारण का ज्ञान होगा।
5. तैत्तिरीयप्रातिशाख्य के सूत्रों का सम्यक् ज्ञान होगा।

एम.ए. द्वितीय सेमेस्टर, (द्वितीय प्रश्न-पत्र)
शीर्षक – काव्य, नाटिका तथा पालि

1. महाकविकालिदास एवं मेघदूतम् के श्लोकों का ज्ञान होगा।
2. मेघदूतम् के श्लोकों को गाने तथा व्याख्या करने में समर्थ होगा।
3. कवि हर्ष एवं नैषधीयचरितम् का परिचय प्राप्त होगा।
4. रत्नावली नाटिका के पत्रों, श्लोकों तथा कथा का ज्ञान होगा।
5. पालि भाषा का सामान्य ज्ञान होगा।

एम.ए. द्वितीय सेमेस्टर, (तृतीय प्रश्न-पत्र)
शीर्षक – दर्शन

1. न्याय दर्शन के अनुसार अनुमान प्रमाण का ज्ञान होगा।
2. न्याय दर्शन के अनुसार उपमान एवं अर्थापत्ति प्रमाण का ज्ञान होगा।
3. महर्षि सदानन्द एवं वेदान्तसार से परिचित होगा।
4. वेदान्त के अनुबन्धचतुष्टय एवं पंचीकरणप्रक्रिया का ज्ञान होगा।
5. वेदान्त के विविध विषयों को जानकर जीव और ब्रह्मा के स्वरूप को जानने में समर्थ होगा।

एम.ए. द्वितीय सेमेस्टर, (चतुर्थ प्रश्न-पत्र)
शीर्षक – साहित्यशास्त्र तथा सौन्दर्यशास्त्र

1. आचार्य कुन्तक, क्षेमेन्द्र, मम्मट तथा जगन्नाथ के काव्यशास्त्रीय सिद्धान्त का ज्ञान होगा।
2. शब्दस्वरूप – अभिधा, लक्षणा, व्यंजना का ज्ञान होगा।
3. नाट्य के स्वरूप एवं विविध अंगों का ज्ञान होगा।
4. नाट्य शास्त्र के श्लोकों की व्याख्या करने में समर्थ होगा।
5. साहित्य में नाट्य एवं नाट्यशास्त्र के महत्व से अवगत होगा।

एम.ए. तृतीय सेमेस्टर, (प्रथम प्रश्न-पत्र)
शीर्षक – इतिहास तथा गद्यकाव्य

1. आर्षकाव्य रामायण एवं महाभारत से परिचित होगा।
2. गद्यकाव्य के उद्भव एवं विकास का ज्ञान होगा।
3. कथासाहित्य एवं आख्यायिका का सम्यक् ज्ञान होगा।
4. महाकवि बाणभट्ट एवं कादम्बरी कथा से परिचित होगा।
5. कादम्बरी के गंधाशों की व्याख्या करने में समर्थ होगा।

एम.ए. तृतीय सेमेस्टर, (द्वितीय प्रश्न-पत्र)
शीर्षक – ग्रन्थ तथा चिन्तक परम्परा

1. रससिद्धान्त, अलंकार सिद्धान्त एवं रीतिसिद्धान्त का ज्ञान होगा।
2. आचार्य राजशेखर एवं काव्यमीमांसा ग्रंथ का परिचय प्राप्त होगा।
3. काव्य पुरुष की उत्पत्ति एवं स्वरूप का ज्ञान होगा।
4. काव्य के विभिन्न गुणों एवं तत्वों ज्ञान होगा।
5. आचार्य दण्डी एवं काव्यादर्श ग्रंथ से परिचित होगा।

एम.ए. तृतीय सेमेस्टर, (तृतीय प्रश्न-पत्र)
शीर्षक – रस-ध्वनि सिद्धान्त

1. गुणीभूतव्यंग्य काव्य के भेदों का सम्यक् ज्ञान होगा।
2. आचार्य धनंजय एवं दशरूपक ग्रन्थ का परिचय प्राप्त होगा।
3. रूपक के प्रकारों का ज्ञान होगा।
4. आचार्य आनन्दवर्धन एवं घन्यालोक ग्रंथ का परिचय प्राप्त होगा।
5. ध्वनि के विविध प्रकार का ज्ञान होगा।

एम.ए. तृतीय सेमेस्टर, (चतुर्थ प्रश्न-पत्र)
शीर्षक – साहित्य – सिद्धान्त

1. आचार्य वामन एवं उनके काव्य स्वरूप का ज्ञान होगा।
2. आचार्य वामन के काव्य प्रयोजन, काव्य-भेद का ज्ञान होगा।
3. अनुप्रास, यमक, श्लेष अलंकार का सम्यक् ज्ञान होगा।
4. उपमा, अनन्वय, उपमेयोपमा, उत्प्रेक्षा, ससन्देह, रूपक एवं स्वाभावोक्ति अलंकार का ज्ञान होगा।

एम.ए. चतुर्थ सेमेस्टर, (प्रथम प्रश्न-पत्र)
शीर्षक – इतिहास तथा निबन्ध

1. महाकाव्य तथा ऐतिहासिक महाकाव्य के विषय में विस्तृत ज्ञान होगा।
2. चम्पूकाव्य तथा नाटक का स्वरूप एवं उनके इतिहास का ज्ञान होगा।
3. गीतिकाव्य का स्वरूप एवं प्रमुख गीतिकाव्यों का सम्यक् ज्ञान होगा।
4. संस्कृत भाषा में निबन्ध लेखन की कला एवं विधि का ज्ञान प्राप्त होगा।

एम.ए. चतुर्थ सेमेस्टर, (द्वितीय प्रश्न-पत्र)
शीर्षक – ग्रन्थ तथा चिन्तक परम्परा

1. ध्वनि सिद्धांत, गुण सिद्धांत तथा औचित्य सिद्धांत का ज्ञान होगा।
2. काव्यादर्श के श्लोकों को समझने एवं व्याख्या करने में समर्थ होगा।
3. आचार्य क्षेमेन्द्र का परिचय एवं पद, वाक्य, प्रबन्ध, गुण, अलंकार तथा रस औचित्य के विषय में ज्ञान होगा।
4. क्रिया, कारक, लिंग, वचन, विशेषण, काल तथा देश औचित्य का ज्ञान होगा।
5. कुल, सत्त्व, स्वभाव, तत्त्व, प्रतिभा, विचार तथा नाम औचित्य का ज्ञान होगा।

एम.ए. चतुर्थ सेमेस्टर, (तृतीय प्रश्न-पत्र)
शीर्षक – रस-ध्वनि सिद्धान्त

1. काव्यगत रसदोष एवं रसदोष परिहार का ज्ञान होगा।
2. गुण और अलंकार में अन्तर का ज्ञान होगा।
3. नाटकगत संधि एवं अर्थप्रकृतियों का ज्ञान होगा।
4. नायक के भेद, लक्षण एवं गुणों का ज्ञान होगा।

एम.ए. चतुर्थ सेमेस्टर, (चतुर्थ प्रश्न-पत्र)
शीर्षक – साहित्य सिद्धान्त

1. अपहनुति, समासोक्ति, निदर्शना, अप्रस्तुतप्रशंसा, अतिशयोक्ति, दृष्टान्त तथा व्यतिरेक अलंकार का ज्ञान होगा।
2. विभावना, विशेषोक्ति, अर्थान्तरन्यास, विरोधाभास, व्याजस्तुति, भ्रान्तिमान, संसृष्टि तथा शंकर अलंकार का ज्ञान होगा।
3. आर्चाय विश्वनाथ एवं साहित्यदर्पण ग्रन्थ से परिचित होगा।
4. कविराज विश्वनाथ के अनुसार, काव्यलक्षण, काव्यभेद, काव्य प्रयोजन एवं अभिधा, लक्षणा, व्यंजना का ज्ञान होगा।

संस्कृत

“बी.ए. प्रोग्राम आउटकम”

1. विद्यार्थी अपनी संस्कृति के बारे में ज्ञान प्राप्त करेगा।
2. प्राचीन वैदिक सभ्यताओं से परिचित होगा।

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“बी.ए. प्रोग्राम स्पेसीफिक आउटकम”

1. संस्कृत बोलने में छात्र समर्थ होगा।
2. विद्यार्थी संस्कारवान् होगा।
3. संस्कृत के अध्ययन के बाद भाषा का सम्यक् ज्ञान होगा।
4. संस्कृत भाषा का प्रचार-प्रसार होगा।
5. संस्कृत में विद्यमान ज्ञान-विज्ञान की जानकारी प्राप्त होगी।

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“कोर्स आउटकम”

बी.ए. प्रथम सेमेस्टर शीर्षक – नाटक, व्याकरण और अनुवाद

1. महाकवि भास के बारे में जानेगा।
2. स्वप्नवासवदत्तम् के श्लोकों की व्याख्या करने में समर्थ होगा।
3. शब्दरूपों और धातुरूपों का ज्ञान होगा।
4. संज्ञा, सन्धि और कारक के बारे में जानेगा।
5. हिन्दी से संस्कृत में अनुवाद करने का ज्ञान होगा।

बी.ए. द्वितीय सेमेस्टर शीर्षक – गद्य, कथा एवं साहित्येतिहास

1. शुकनासोपदेश के गद्यांशों की व्याख्या करने में समर्थ होगा।
2. हितोपदेश के श्लोकों की व्याख्या करने में समर्थ होगा।
3. शुकनासोपदेश एवं हितोपदेश में वर्णित कथाओं का ज्ञान होगा।
4. संस्कृत नाटक एवं कथा साहित्य के बारे में ज्ञान प्राप्त होगा।
5. संस्कृत के प्रमुख कवियों का सामान्य परिचय प्राप्त करेगा।

बी.ए. तृतीय सेमेस्टर शीर्षक – नाटक, व्याकरण तथा रचना

1. कवि हर्षवर्धन के विषय में ज्ञान होगा।
2. नागानन्द नाटक के श्लोकों एवं सूक्तियों का ज्ञान होगा।
3. वाच्य के तीनों प्रकारों का ज्ञान होगा।
4. समास का सम्यक् ज्ञान होगा।
5. संस्कृत के पदों से वाक्य निर्माण करने की क्षमता विकसित होगी।

बी.ए. चतुर्थ सेमेस्टर शीर्षक – पद्य तथा साहित्येतिहास

1. रघुवंश महाकाव्य द्वितीय सर्ग की श्लोकों की व्याख्या करने में समर्थ होगा।
2. कवि कालिदास का परिचय प्राप्त होगा।
3. नीतिशतकम् के नीतिपरक श्लोकों का ज्ञान होगा।
4. प्रमुख महाकाव्य एवं गद्यकाव्य के बारे में सामान्य जानकारी होगी।
5. गीतिकाव्य, मुक्तककाव्य एवं कथा साहित्य का सामान्य ज्ञान होगा।

बी.ए. पंचम सेमेस्टर शीर्षक – नाटक, छन्द तथा व्याकरण

1. विश्व का सर्वोत्कृष्ट नाटक अभिज्ञानशाकुन्तलम् से परिचित होगा।
2. महाकवि कालिदास तथा उनकी उपमा एवं सूक्तियों का ज्ञान होगा।
3. प्रमुख छन्दों का सम्यक् ज्ञान होगा। गायन कला सीखेगा।
4. कृदन्त प्रत्यय का ज्ञान प्राप्त करेगा।
5. तद्धित एवं स्त्री प्रत्यय का ज्ञान प्राप्त करेगा।

बी.ए. षष्ठ सेमेस्टर शीर्षक – काव्य, अलंकार तथा निबंध

1. बृहत्त्रयी का प्रमुख ग्रन्थ किरातार्जुनीयम् का ज्ञान प्राप्त करेगा।
2. महाकवि भारवि तथा उनके अर्थगौरव के बारे में जानेगा।
3. मूलरामायण (रामायण की मूलकथा) का ज्ञान प्राप्त होगा।
4. काव्यगत अलंकारों का सम्यक् ज्ञान होगा।
5. संस्कृत भाषा में निबन्ध लिखने में निपुण होगा।