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 arround metal	
CO 3	Learn symmetrical properties of molecules	
CO 4	Understands different types of ∏ complexes	
CO 5	Understands different types of polymers of phoshphorous, 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 moecules
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 comlexes
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 mossbaur 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 conductomer to different acid –base system
CO 5	Uses colorimeter to find formula of complexes

Course outcomes Lab course IV

CO 1	Uses conductomer 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 matterials
-	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 terpinoids and caritenoids
CO 2	Apply rules to determine structure of alkaloids
CO 3	Apply rules to determine structure of stereiods
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 sprctra
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 pollutatnts
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 turbiditimetry
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 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

B Sc Chemistry

Program Specific Outcomes

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

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 to different
	topics of syllabus.

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

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 to different
	topics of syllabus.

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

CO1 Learn to perform experiments based on thermodynamics, basic electronics and physical optics.

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

CO1	Understands the concept of reference frames, special theory of relativity and its concequences
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	Understans 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 throries 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, application based numerical problems and long answer type problems related to different topics of syllabus.

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

CO1 Learn to perform experiments based on electronics, optics and nuclear phys	cs.
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PROGRAM OUTCOME - B. Sc. Zoology

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PSO-1	Gain knowledge of Invertebrates and cell biology	
PSO-2	Learn about the vertebrate and embryology.	
PSO-3	Learn about the anatomy and physiology	
PSO-4	Understand the vertebrate endocrinology, reproductive biology, behavior, evolution and applied zoology.	
PSO-5	Learn about the ecology, environmental biology, toxicology, microbiology and medical zoology.	
PSO-6	Gain practical knowledge about invertebrates, vertebrates, haematology, chromatography, microbiology, ecology and applied zoology.	

Program specific outcome - Sem. I to VI

Course outcome - Sem. I : Invertebrate and cell biology

CO-1	Learn about the distinguishing characters of invertebrates for taxonomic purpose.
CO-2	Understand the life cycle of pathogens and host parasite relationship & preventive measures.
CO-3	Learn about the ultra structure of cell and cell organelle under electron microscope.
CO-4	Gain knowledge about the structure, types and organization of X,Y, giant chromosomes.
CO-5	Understand the all types of cancer, carcinogenic agents, preventive measures.

Course outcome - Sem. II : Vertebrate and embryology

CO-1	Learn about the distinguishing characters of chordates for taxonomic purpose.
CO-2	Understand the parenting in fishes, amphibians. Identification of snakes, venom action.
CO-3	Learn about the peculiar prototherians : a connecting link, metatherians & their specialty.
CO-4	Gain knowledge about gametic development, events during fertilization. Partheogenesis
CO-5	Understand the all types of placenta, its development and how its work.

Course outcome - Sem. I & II : Lab course

CO-1	Learn about the specimens of invertebrate & chordate and their taxonomical status.
CO-2	Understand the skeletal differences between frog and rabbit.
CO-3	Learn about the phases of mitosis and meiotic cell division
CO-4	Gain knowledge about the development of chick by preparation of egg window.
CO-5	Understand the various organs & systems of invertebrates by preparing clay model.

Course outcomes Sem - III: Anatomy and physiology

CO 1	Understand comparativeanatomy of various organs and system in vertebrates
CO 2	Gain knowledge of aortic evolution of arches
CO 3	Grasp knowledge of general plan of brain, spinal cord and histology of endocrine glands.
CO 4	Understand physiology of different system in animal such as digestion absorption, circulation, blood coagulation, respiration excretion and nervous control
CO 5	understand working mechanism of eye and ear

Course outcome - Sem - IV : Vertebrate endocrinology, reproductive biology, behavior, evolution and applied zoology

CO 1	Gain knowledge of structure of endocrine glands
CO 2	Grasp knowledge of gamete biology
CO 3	Acquire applied knowledge about aquaculture, sericulture, apiculture, pisiculture and pest control
CO 4	understand pattern of animal behavior
CO 5	Comprehend organic evolution

Course outcome - Sem. III & IV : Lab course

CO-1	Learn about the specimens of chordate and their taxonomical status.
CO-2	Understand the aquatic, terrestrial, arboreal adaptations in animals.
CO-3	Learn about the homologous and analogous organ & its resemblance.
CO-4	Gain knowledge about the permanent mounting techniques of fish scales
CO-5	Understand the various organs & systems of invertebrates by preparing clay model.

Course outcome Sem – V: Ecology, environmental biology, toxicology, microbiology and medical zoology

CO 1	Understand different ecosystem of the world
CO 2	Gain knowledge about environment resources and their management.
CO 3	Perceive a brief knowledge of toxins and their harmful effect in our body. Also
	learn how to give first aid to affected person.
CO 4	Grasp knowledge of general and applied microbiology
CO 5	Gain brief knowledge of pathogenic microorganism like virus, bacteria,
	spirochetes and rickettsia

Course outcomes Sem – VI : Genetics, cell biology, biotechnology and biotechnique

CO 1	Gain knowledge of fundamental genetics including human genetics and genetical
	disorder
CO 2	Grasp knowledge of basic structure of protein in our body
CO 3	Acquire knowledge of cell physiology such as pH,buffer , transport mechanism
	across membrane and enzymatic activity.
CO 4	Learn applied biotechnology and its application in pharmaceutical & food
	processing industry
CO 5	Develop skill in operating scientific equipment as pH meter, microscope,
	colorimeter, centrifugation and chromatography.

Course outcome - Sem. V & VI : Lab course

CO-1	Learn about the species frequency, density by ecological method.
CO-2	Gain knowledge about estimation of Hb%, counting of RBC, WBC in blood.
CO-3	Learn about the staining method of gram positive and negative bacteria.
CO-4	Gain knowledge about the color separation technique by chromatography.
CO-5	Understand the working principle of instruments. Gain knowledge about human
	pathogens.

M. Sc. – Zoology

${\sf PROGRAM}\ {\sf OUTCOME}: M.\ Sc.\ Zoology$

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 O2, Co2
	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 analyticalinstruments.
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.

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

Gain knowledge about the distinguishing taxonomic characters of different
Insects.
Students will be able to gain anatomical knowledge about of various insects
Helpful for the study and documentation of local insect of different habitat.
Gain knowledge about the permanent mounting techniques of insect body parts.
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. 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 ou	itcome - Sem. III : Population genetics and evolution -
CO-1	Learn about the impact of Hardy - Weinberg lawin 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}	Coin the available shout the analysis availation and assay the available of availation

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 thehaematin crystal of different vertebrates.
	U J

CO-2	Students will be able tounderstand 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.

M. Sc. – Zoology

Course outcome - Sem. IV : Comparative and human physiology

CO-1	Learn about the characteristics of blood groups, Bombay blood group.
CO-2	Understand thecardiac 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 thewater 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.

Course outcome - Sem. IV : Icthyology

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 ou	tcome - 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 icthyofaunal 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.
PROJ	ECT WORK : SEMESTER – IV (IN PLACE OF LAB COURSE –II - OPTIONAL)
Course ou	tcome – 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

	CO PSO Maths
	Course outcomes B Sc Math Sem I
1	Matrix and its properties
2	Group
3	Coset
4	Vector
5	Solenoidal and Irrotetional Vectors
	Course outcomes B Sc Math Sem I
1	Integral Calculus
2	Limit of function
3	Maclaurin and Tailor series
4	Equation of first and first degree
5	Orthogonal Trajectories
	Course outcomes B Sc Math Sem III
1	Sequence
2	Test of alternating series
3	Limit and continuty of function of two variables
4	Envelope and Evolutes
5	Beta and gama functions
	Course outcomes B Sc Math Sem IV
1	Series solutions of differential equations
2	Laplac Transformations
3	Partial differential equations of first order
4	Partial differential equations of second order
5	Calculus of variations
	Course outcomes B Sc Math Sem V
1	Series of arbitrary terms
2	Reimann Integral
3	Complex numbers
4	Metric spaces
5	Improper Integrals
	Course outcomes B Sc Math Sem VI
1	Group automorphism
2	Ring theory
3	Vector space
۵ ۵	linear transformation
5	Inner product spaces
	Course outcomes M Sc Math Sem I Paper I
1	Normal and subnormal series
2	Mudules
3	Noetherian and artinian modules
4	Canonical and Smith normal form over a PID and rank
5	

	Course outcomes M Sc Math Sem I Paper II
1	Topological space
2	Relative topology
3	Compactness
4	connectedness
5	
4	Course outcomes M Sc Math Sem I Paper III
1	Lattice
2	Boolean algebra
3	Discret numeric functions and generating function
4	Recuurence relations and recursive algorithm
5	
	Course outcomes M Sc Math Sem I Paper IV
1	Overview of C programming
2	Constants and variable
3	Operators And expressions
4	Decision making branching and looping
5	
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	Course outcomes M Sc Math Sem II Paper I
1	Integrals and theorem
2	Uniform convergence of sequences anf series of function
3	Uniform convergence and continuity
4	Power series
5	
1	Course outcomes M Sc Main Sem II Paper II
1	Base sub-base and axioms of conntability
2	Separation axiom
3	Regular spaces
4	Nets and filter
5	
	Course outcomes M Sc Math Sem II Paper III
1	Basic concept in graph theory
2	trees and cut sets
- 3	Planer graph and colouring
4	Proper colouring of graph
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	Course outcomes M Sc Math Sem II Paper IV
1	Complex Integration
2	poisson Integral formula
3	Zero of analytic function
4	Poles and zero of a meromorphic function

1 2 3 4 5	Course outcomes M Sc Math Sem III Paper I Banach space Hilbert space Operator theory
1 2	Course outcomes M Sc Math Sem III Paper II Calculus of a finite difference Interpolation
3 4 5	Inverse interpolation and curve fitting Numerical differentiation and integration
1	Course outcomes M Sc Math Sem III Paper III Origin and charecteristics of operation research
2	Computational procedure of simplex method
3	Duality
4 5	Nonlinear programming problems
1 2 3 4 5	Course outcomes M Sc Math Sem III Paper IV Beginning with C++ Token and structure Function of C++ Class and objects
	Course outcomes M Sc Math Sem IV Paper I
1	Projection operators
2	Finite dimensional spectral theory
5 4	Convergence of sequence of operators
5	
1 2 3 4 5	Course outcomes M Sc Math Sem IV Paper II Solutions of algeberic and transcendental equation Simultaneous algebraic linear equation Numerical solution of ordinary differential equations of first and second order Differential equations
1	Course outcomes M Sc Math Sem IV Paper III Transportations

2	Assignments
3	Sequencing
4	Game theory
5	
	Course outcomes M Sc Math Sem IV Paper IV
1	Space curves
2	Theory of space curve
3	concept of surface
4	Normal curveture
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	Course outcomes M Sc Math Sem I Paper I
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	Course outcomes M Sc Math Sem I Paper II
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<u>स्नातकोत्तर हिन्दी–विभाग (2015–16 से 2019–20)</u> हिन्दी विषय : प्रोग्राम आउटकॅम/प्रोग्राम स्पेसिफिक आउटकॅम</u>

महाविद्यालय में सत्र 1969—70 से स्नातकोत्तर हिन्दी की कक्षायें संचालित हैं। महाविद्यालय में 1958 से स्थापना वर्ष के साथ ही स्नातक स्तर पर कला उवं विज्ञान संकाय में सामान्य हिन्दी एवं हिन्दी साहित्य विषय का अध्यापन संचालित है। सत्र 2018—19 से स्नातक स्तर पर बी.कॉम, बी.सी.ए. संकाय में भी हिन्दी भाषा/सामान्य हिन्दी का अध्यापन किया जा रहा है। सत्र 2015—16 से 2019—20 के मध्य स्वशासी पाठ्यक्रम संचालित रहा है। इन विषयों के अध्ययन, अध्यापन से छत्तीसगढ़ का सम्पूर्ण पूर्वी पश्चिमी क्षेत्र शैक्षिक, अकादमिक एवं बौद्धिक दृष्टि से लाभान्वित हो रहा है तथा विद्यार्थी अंतर्राष्ट्रीय स्तर पर सर्वाधिक प्रयुक्त हिन्दी भाषा के ज्ञान से अपनी प्रतिभा योग्यता एवं दक्षता का उत्कृष्ठ प्रदर्शन कर रहे है। यह इस विषय की सामाजिक उपयोगिता एवं वैशिष्ट्य है जिसका प्रोग्राम आऊट कम एवं प्रोग्राम स्पेसिफिक आउट कम प्रश्न पत्र वार अधोलिखित है।

विषय–हिन्दी : प्रोग्राम आउटकॅम

- 1 अध्ययनरत् विद्यार्थी के बहुआयामी व्यक्तित्व विकास, बौद्धिक उन्नयन, चारित्रिक उत्थान एवं सांस्कृतिक सामाजिक चेतना का समग्र विकास मुख्य लक्ष्य है।
- 2 हिन्दी भाषा ज्ञान के समग्र पक्षों के साथ साहित्य के अध्ययन अध्यापन से मानवीय जीवन मूल्यों, राष्ट्रीय भावना का विकास एवं सामाजिक आदर्शों का नवनिर्माण केन्द्रीय उद्देश्य है।
- 3 व्यावहारिक एवं दैनिक जीवन में हिन्दी भाषा साहित्य की उपयोगिता एवं स्वालम्बन धर्मी गुणों के उन्नयन् सहित हिन्दी में कम्प्यूटर तकनीक का ज्ञान।
- 4 वैश्विक स्तर पर सर्वाधिक प्रयुक्त हिन्दी भाषा के प्रयोजन एवं रोजगार मूलक उपक्रम।
- 5 हिन्दी के प्राचीन ग्रंथों सहित आधुनिक समय में रचित शिष्ट एवं लोक साहित्य का वर्तमान संदर्भो में अनुसंधान की सामर्थ्य का समुचित विकास।
- 6 विद्यार्थी में अन्य भाषा साहित्य के तुलनात्मक अध्ययन की योग्यता का विकास होना।

विषय- हिन्दी : प्रोग्राम स्पेसिफिक आउटकॅम

- 1 मानव सभ्यता के आदिम युग से हिन्दी भाषा के विकास एवं स्वरूप से परिचित होना।
- 2 हिन्दी लिपि के विकासक्रम का अध्ययन एवं आधुनिक तकनीकी युग में उसके प्रयोग का ज्ञान-अर्जन होगा।
- 3 हिन्दी भाषा साहित्य के ज्ञानार्जन से आदर्श चरित्र का निर्माण राष्ट्रीय चेतना एवं सामाजिक जीवन मूल्यों का विकास होगा।
- 4 रोजगारोन्मुखी पाठ्यक्रम के अध्ययन से आत्म निर्भरता आयेगी।
- 5 सांस्कृतिक, सामाजिक प्रवृतियों का अद्यतन ज्ञान प्राप्त होना।
- 8 शासकीय, अशासकीय सेवा तथा सामाजिक जीवन के क्षेत्र में सक्षम होना।
- 7 भाषा साहित्य के अध्ययन से अपने भावों एवं विचारों की अभिव्यक्ति में दक्षता प्राप्त होगी।

<u>(1) पी.जी. हिन्दी पाठ्यक्रम</u> <u>हिन्दी पाठ्यक्रम : आउटकॅम</u> <u>एम.ए. प्रथम सेमेस्टर — प्रथम प्रश्न पत्र (अनिवार्य)</u> शीर्षक — हिन्दी साहित्य का इतिहास (सन 700 ई. से 1857 ई. तक)

- 1 हिन्दी साहित्य के अध्ययन से जनमानस की मनोवृत्ति, संवेदना एवं दशा के विविध स्वरूपों का विवेचन होगा।
- 2 सामाजिक, राजनीतिक, सांस्कृतिक आदि विभिन्न परिस्थितियों का समुचित ज्ञान होगा।
- 3 हिन्दी क्षेत्र के समग्र भारतीय परिवेश की अनुगूंज इस प्रश्न पत्र में समाहित है।
- 4 आठवी, नवीं शताब्दी से आज तक के साहित्यिक परिदृश्य एवं सृजन शीलता सहित विविध प्रवृतियों एवं भाषा शैली का ज्ञान होगा।
- 5 इस साहित्येतिहास के माध्यम से विद्यार्थियों में सर्जनात्मक चेतना का विकास होगा।

<u>हिन्दी पाठ्यक्रम ः आउटकॅम</u> एम.ए.प्रथम सेमेस्टर – द्वितीय प्रश्न पत्र (अनिवार्य) शीर्षक – भक्ति काव्य</u>

- 1 हिन्दी साहित्य के अध्ययन से भक्तिकालीन काव्य का विशद ज्ञान प्राप्त होगा।
- 2 भक्तिकाव्य से लोक-जागरण एवं लोक मंगल की भावना का सम्यक बोध होगा।
- 3 भारत की भावनात्मक एकता और सांस्कृतिक परम्परा सुदृढ़ होगी।
- 4 सांस्कृतिक जीवन मूल्यों के संरक्षण से समाज में नवीन आदर्शो की स्थापना होगी।

<u>हिन्दी पाठ्यक्रम ः आउटकॅम</u> <u>एम.ए.प्रथम सेमेस्टर – तृतीय प्रश्न पत्र (अनिवार्य)</u> <u>शीर्षक – भाषा–विज्ञान</u>

- 1 साहित्य के गंभीर अध्ययन के लिए भाषा के उद्भव, विकास का प्रारंभिक ज्ञान होगा।
- 2 भाषा विज्ञान के वस्तुनिष्ठ अध्ययन से भाषिक इकाईयों तथा भाषा संरचना के विविध स्तरों का ज्ञान होगा।
- 3 भाषिक अंतर्दृष्टि के साथ भाषा विषयक विवेचनात्मक क्षमता का विकास होगा।
- 4 भाषा के साहित्येत्तर प्रयोजन मूलक रूपों का भाषा वैज्ञानिक चिंतन दृष्टिगोचर होगा।
- 5 भाषा ज्ञान से सामाजिक जीवन एवं लोक व्यवहार में विचारों के आदान–प्रदान में दक्षता विकसित होगी

<u>हिन्दी पाठ्यक्रम ः आउटकॅम</u> <u>एम.ए. प्रथम सेमेस्टर — चतुर्थ प्रश्न पत्र</u> शीर्षक— आधुनिक गद्य साहित्य ः हिन्दी नाटक एवं निबंध

- 1 साहित्य के महत्वपूर्ण नाट्य साहित्य के प्रभाव एवं सामाजिक महत्व से परिचित होना।
- 2 नाट्य साहित्य के श्रव्य एवं दृश्य रूपों के प्रभाव से समाज निर्माण एवं चारित्रिक विकास होगा।
- 3 रंगमंच के अनुकूल नाट्य साहित्य को जोड़कर प्रत्यक्ष रूप से सामाजिक प्रवृत्तियों के परिवर्तन से परिचित होना।
- 4 नाटक की तरह निबंध विधा की वैचारिक एवं चिंतनशील प्रवृतियों से स्वातंत्र्य बौद्धिक चेतना का विकास होगा।

<u>हिन्दी पाठ्यक्रम : आउटकॅम</u> <u>एम.ए.हिन्दी प्रथम सेमेस्टर– परियोजना कार्य</u>

- 1 शोध प्रवृत्ति के विकास के लिए मौलिक रूप से पाठ्यक्रमेतर किसी एक विषय/अंश पर आलेख तैयार करने की विधि का ज्ञान होगा।
- 2 शोधार्थी द्वारा हिन्दी साहित्य के व्यापक फलक पर किसी प्राचीन/नवीन अथवा क्षेत्रीय साहित्य/साहित्यकार पर लगभग 20 पृष्ठों का अनुसंधान परक चिंतनशील आलेख लिखकर नवीन भाव बोध को उद्घाटित करने का ज्ञान होगा।
- 3 शोध प्रविधियों का ज्ञान, अप्रकाशित तथ्यों का संग्रहण, क्षेत्र—कार्य, सर्वेक्षण, साक्षात्कार, लोक साहित्य—संस्कृति सम्बन्धी सामाग्रियों को संकलित कर बौद्धिक प्रतिभा का विकास।
- 4 स्वशासी पाठ्यक्रम के अन्तर्गत सामयिक एवं प्रासंगिक विषयों का ज्ञान होना।

<u>हिन्दी पाठ्यक्रम ः आउटकॅम</u> <u>एम.ए.हिन्दी–द्वितीय सेमेस्टर– प्रथम प्रश्न पत्र(अनिवार्य)</u> शीर्षक– हिन्दी साहित्य का इतिहास (सन् 1857 से आज तक)

- 1 सन् 1857 के प्रथम स्वतंत्रता संग्राम के साहित्यिक—सामाजिक, राजनैतिक, सांस्कृतिक प्रभावों से परिचित होना तथा आधुनिक हिन्दी साहित्य के अभ्युदय की पृष्ठभूमि की समुचित समझ विकसित होगा।
- 2 आधुनिक हिन्दी पद्य–गद्य साहित्य में भारतीय पुनर्जागरण की अभिव्यक्ति को समझना।
- 3 भारतेन्दु युग, द्विवेदी युग, छायावादी युग, छायावादोत्तर गद्य–पद्य साहित्य की प्रमुख विशेषताओं एवं रचनाकारों का सम्यक ज्ञान प्राप्त करना।
- 4 उत्तरछायावादी कविता, दलित विमर्श, विकलांग विमर्श के साहित्य एवं साहित्यकारों के अध्ययन से आधुनिक भारतीय समाज के नवनिर्माण को गति मिलेगा।
- 5 हिन्दी साहित्य के अतिरिक्त उर्दू एवं उड़िया साहित्य के संक्षिप्त इतिहास का ज्ञान प्राप्त होगा।

<u>हिन्दी पाठ्यक्रम ः आउटकॅम</u> <u>एम.ए.हिन्दी–द्वितीय सेमेस्टर–द्वितीय प्रश्न पत्र(अनिवार्य)</u> शीर्षक–प्रेमाध्यानक काव्य एवं रीतिकाव्य

- 1 हिन्दी साहित्य के पूर्वमध्यकाल एवं रीतिकाल के उद्भव—विकास एवं काव्यगत प्रवृत्तियों का ज्ञान होगा।
- 2 पूर्व मध्यकालीन सूफी काव्य परम्परा से परिचित होना।
- 3 हिन्दू एवं इस्लाम संस्कृति से समन्वित साहित्य के अध्ययन से वर्तमान भारतीय समाज में समन्वय की भावना का विकास होगा।
- 4 उत्तर मध्यकालीन काव्य(रीतिकाल) की कालात्मक अभिव्यंजना को समझना।
- 5 कवि जायसी, घनानंद, बिहारी के काव्य से परम्परागत काव्य प्रवृत्तियों को आत्मसात कर आधुनिक नई काव्य—चेतना को गतिशील करना। इसके साथ ही केशव, देव, भूषण, सेनापति पद्माकर के काव्य का द्रुत अध्ययन कर समग्र युगीन चेतना को ग्रहण किया जा सकेगा।

<u>हिन्दी पाठ्यक्रम ः आउटकॅम</u> द्वितीय सेमेस्टर—तृतीय प्रश्न पत्र (अनिवार्य) शीर्षक— हिन्दी भाषा

- 1 भाषा की उत्पत्ति, स्वरूप एवं प्रयोग का ज्ञानार्जन होगा तथा प्राचीन भारतीय आर्य भाषाओं से लेकर आधुनिक भाषा विकास का ज्ञान होगा।
- 2 हिन्दी भाषा के ऐतिहासिक विकास क्रम एवं भौगोलिक विस्तार के अध्ययन से भाषा के शुद्ध प्रयोग की जानकारी मिलेगी।
- 3 वर्तमान कम्प्यूटर सुविधाओं के प्रयोग में देवनागरी लिपि के महत्व का वैज्ञानिक दृष्टिकोण प्रतिपादित होगा।
- 4 देश—विदेश में हिन्दी के शुद्ध प्रयोग एवं विस्तार को बल मिलेगा तथा हिन्दी की संवैधानिक स्थिति राष्ट्र भाषा के रूप में शसक्त होगी।
- 5 भाषागत प्रयोग से राष्ट्रभाषा के रूप में हिन्दी की मान्यता से राष्ट्रीय एकता एवं सद्भावना को शक्ति मिलेगी।
- 6 वर्तमान समय में कामकाजी हिन्दी के प्रयोग एवं ज्ञान से स्वरोजगार सहित आत्मनिर्भरता आयेगी। कार्यालयीन हिन्दी का ज्ञान होगा।
- 7 मानकीकृत हिन्दी के प्रयोग से देश में भाषिक–विविधता समाप्त होगी एवं अर्थबोध का समान प्रभाव होगा।

<u>हिन्दी पाठ्यक्रम ः आउटकॅम</u> <u>द्वितीय सेमेस्टर– चतुर्थ प्रश्न पत्र</u> शीर्षक– आधुनिक गद्य साहित्य हिन्दी उपन्यास एवं कहानी

- 1 आधुनिक हिन्दी गद्य साहित्य के अन्तर्गत उपन्यास एवं कहानी के विकास क्रम, कथ्य, चारित्रिक विशेषताओं के ज्ञान सहित इसकी महत्ता का बोध होगा।
- 2 श्रव्य एवं दृश्य विधा से सामाजिक—सांस्कृतिक परिस्थितियों की जानकारी होगी जिससे सामाजिक चिंतन को गति मिलेगी।
- 3 प्रेमचंद कृत उपन्यास 'गोदान' की विश्व प्रसिद्धि एवं समाज पर प्रभाव का बोध होगा। हजारी प्रसाद द्विवेदी कृत 'बाणभट्ट की आत्मकथा' के अध्ययन से भारतीय सांस्कृतिक जीवन मूल्यों की परम्परा एवं वर्तमान समाज की प्रवृत्तियों के परिमार्जन की नई दृष्टि मिलेगी।
- 4 सामाजिक मनोवैज्ञानिक यथार्थवादी कहानियों की वैचारिकी से समाज की स्थिति एवं परिवर्तन को समझा जा सकेगा।
- 5 समकालीन कथा साहित्य का व्यापक फलक ग्राह्य हो सकेगा।

<u>हिन्दी पाठ्यक्रम ः आउटकॅम</u> <u>एम.ए.हिन्दी–द्वितीय सेमेस्टर</u> <u>परियोजना कार्य</u>

- 1 विद्यार्थी में शोध प्रवृत्ति का विकास होगा।
- 2 पाठ्यक्रमेतर दलित साहित्य, गद्य साहित्य, नारी विमर्श, साढोत्तरी कथा साहित्य छत्तीसगढ़ का गद्य साहित्य, हिन्दी कथा साहित्य में उत्तर आधुनिकता हिन्दीतर भाषा साहित्य का ज्ञान होगा।
- 3 पाठ्यक्रमेत्तर आधुनिक हिन्दी आलोचना की प्रवृत्तियों का ज्ञान होगा।
- 4 हिन्दीतर प्रदेशों एवं विदेशों में हिन्दी के प्रयोग का प्रसार होगा।
- 5 विकलांग विमर्श का समुचित ज्ञानार्जन होगा।

<u>हिन्दी पाठ्यक्रम ः आउटकॅम</u> एम.ए.तृतीय सेमेस्टर–प्रथम प्रश्न पत्र (अनिवार्य) शीर्षक– आधुनिक हिन्दी काव्य छायावाद एवं राष्ट्रीय काव्य धारा

- 1 हिन्दी साहित्य में लोक जागरण एवं प्रकृति, प्रेम, नारी सौन्दर्य के समष्टि रूप का निदर्शन छायावादी काव्य से होगा।
- 2 आधुनिक युगीन राष्ट्रीय काव्य धारा के नवोन्मेष को भारतीय आदर्शवादी सांस्कृतिक परम्पराओं के अवधान में परखा जा सकेगा।
- 3 मैथिलीशरण गुप्त, जयशंकर प्रसाद, सूर्यकान्त त्रिपाठी निराला के साथ सुमित्रानंदन पंत, महादेवी वर्मा, अयोध्या सिंह उपाध्याय अरिऔध, हरिवंश राय बच्चन जैसे केन्द्रीय रचनाओं की रचना धर्मिता का वृहद परिचय प्राप्त होगा।
- 4 छत्तीसगढ़ के रायगढ़ को कर्मक्षेत्र के रूप में अंगीकार करने वाले छायावाद के पुरस्कर्ता एवं नामकरणकर्ता पं. मुकुटधर पाण्डेय के साहित्यिक वैभव को आत्मसात किया जा सकेगा।
- 5 छायावादी एवं राष्ट्रीय काव्य धारा की मूल प्रवृत्तियों का ज्ञान होगा।

<u>हिन्दी पाठ्यक्रम ः आउटकॅम</u> <u>एम.ए. तृतीय सेमेस्टर , द्वितीय प्रश्न पत्र (अनिवार्य)</u> <u>शीर्षक— भारतीय काव्य शास्त्र</u>

- 1 भारतीय संस्कृतकालीन काव्य शास्त्र का सम्यक ज्ञान अर्जित होगा।
- 2 साहित्यिक सर्जना के अन्तरंग एवं शिल्पगत वैशिष्ट्य का परिचय मिलेगा।
- 3 काव्य के शास्त्रीय पक्षों के मूल सिद्धांत रस, अलंकार, रीति, ध्वनि, वक्रोक्ति एवं औचित्य सम्प्रदायों के महत्व का प्रतिपादन हो सकेगा।
- 4 काव्य शास्त्रीय विवेचन से साहित्य के मर्म और मूल्यवत्ता का आत्म बोध होगा।
- 5 आधुनिक हिन्दी के प्रमुख आलोचकों आचार्य रामचन्द्र शुक्ल, नंद दुलारे बाजपेयी आचार्य हजारी प्रसाद द्विवेदी, डॉ. नगेन्द्र, डॉ. राम विलास शर्मा की आलोचना दृष्टि का ज्ञान होगा।
- 6 हिन्दी आलोचना की प्रमुख प्रवृत्ति शास्त्रीय, व्यक्तिवादी, तुलात्मक, मनोविश्लेषणवादी आदि का निरूपण किया जा सकेगा।

<u>हिन्दी पाठ्यक्रम : आउटकॅम</u> तृतीय सेमेस्टर— तृतीय प्रश्नपत्र (अनिवार्य) शीर्षक पत्रकारिता प्रशिक्षण</u>

- 1 भारतवर्ष की लोकतांत्रिक शासन प्रणाली में चतुर्थ स्तंभ के रूप में पत्रकारिता के सैद्धान्तिक एवं व्यवहारिक पहलुओं का ज्ञानार्जन होगा।
- 2 दैनिक समाचार पत्र से लेकर वार्षिक पत्र-पत्रिकाओं के स्वरूप की समझ विकसित होगी।
- 3 प्रिंट मीडिया, इलेक्ट्रानिक मीडिया, इंटरनेट आदि के उपयोग से समाज के विकास एवं जन–जागृति का मार्ग प्रशस्त करने का ज्ञान होगा।
- 4 रोजगार के अवसर की प्राप्ति होगी।
- 5 पत्रकारिता के सभी पहलुओं–समाचार संकलन, लेखन प्रस्तुति, शीर्षक निर्धारण, प्रभावी तथ्य, आमुख, स्तंभ लेखन, सम्पादन कला आदि का विस्तृत ज्ञान होगा।
- 6 साक्षात्कार, पत्रकार वार्ता, प्रेस कानूनों की अवधारणा ग्रहणीय होगी।

<u>हिन्दी पाठ्यक्रम ः आउटकॅम</u> तृतीय सेमेस्टर– चतुर्थ प्रश्न पत्र(अनिवार्य) शीर्षक– लोक साहित्य</u>

- 1 मानव जीवन की परम्परागत् सभ्यता संस्कृति के संवाहक के रूप में लोक साहित्य का विस्तृत ज्ञान प्राप्त होगा।
- 2 विविध बोलियों–विभाषाओं के अध्ययन से ज्ञान समृद्ध होगा।
- 3 मूल राष्ट्रीय संस्कृति के संरक्षण-संपर्द्धन की ललक उत्पन्न होगी।
- 4 लोक की अवधारणा एवं लोक संस्कृति के परम्परागत विकास का बोध होगा।
- 5 लोग गीत, लोक नाटक, लोक कथा, लोक–गाथा आदि का विस्तृत ज्ञान होगा।
- 6 लोक जीवन की मानवीय संवेदना, राष्ट्रीय एकसूत्रता का कारक बन सकेगा।
- 7 लोक साहित्य की उपयोगिता महत्व एवं चुनौतियाँ अभिलक्षित हो सकेंगी।

<u>हिन्दी पाठ्यक्रम : आउटकॅम</u> एम.ए. तृतीय सेमेस्टर– परियोजना कार्य

- 1 इस परियोजना कार्य के अन्तर्गत् स्नातकोत्तर के विद्यार्थी में पाठ्यक्रम से पृथक आंचलिक/क्षेत्रीय लोक साहित्य के किसी एक विशेष अंश पर शोधमूलक कार्य करने का अनुभव प्राप्त होगा।
- 2 शोध प्रविधि के अन्तर्गत लोकजीवन में समाहित लोकगीतों / लोक कथाओं का संकलन रायगढ़ जिले में प्रचलित छत्तीसगढ़ी लोकोक्ति मुहावरों के संकलन के साथ उसके अर्थ एवं प्रभाव का ज्ञान प्राप्त होगा।
- 3 रायगढ़ जिले के किसी एक समाचार पत्र के प्रकाशन की प्रक्रिया, समाचारों की प्रस्तुति, सामाजिक समस्याओं के समाधान का ज्ञान अर्जित होगा।
- 4 आंचलिक साहित्य के अतिरिक्त छायावाद एवं राष्ट्रीय काव्य—धारा के रचनाकारों के साहित्य की विशेषताओं का सम्यक ज्ञान प्राप्त होगा।
- 5 आधुनिक नाटक, लोक नाट्य, रंगमंच की जानकारी से बहुमुखी प्रतिभा का विकास होगा जिससे भविष्य में एम.फिल., पी.एच.डी., नेट, सेट, जे.आर.एफ. उत्तीर्ण कर उच्च शिक्षा में सेवा के अतिरिक्त प्रशासनिक सेवाओं का भी अवसर प्राप्त किया जा सकेगा।

<u>हिन्दी पाठ्यक्रम ः आउटकॅम</u> <u>एम.ए. चतुर्थ सेमेस्टर– प्रथम प्रश्न पत्र (अनिवार्य)</u> शीर्षक– छायावादोत्तर काव्य

- 1 छायावादोत्तर काव्य से राष्ट्रीय चेतना, सामाजिक यथार्थ, नवीन वैज्ञानिक भावबोध, तकनीकी विकास से बदलते साहित्यिक परिदृश्य, नवीन शिल्प सौष्ठव का ज्ञान होगा।
- 2 प्रगतिशील एवं प्रयोगवादी काव्य के समुचित चिंतन का बोध होगा।
- 3 कवि अज्ञेय, नागार्जुन, मुक्तिबोध के काव्य के विशद्ज्ञान सहित रामेश्वर शुक्ल अंचल, रघुवीर सहाय, धूमिल, दुष्यंत कुमार सहित नयी पीढ़ी के सशक्त रचनाकार अरूण कमल की रचनात्मक विशिष्टता को आत्मसात किया जा सकेगा।
- 4 कविता के व्याख्यात्मक एवं समीक्षात्मक ज्ञान से प्रतिभा का उन्नयन होगा।

<u>हिन्दी पाठ्यक्रम– आउट कॅम</u> <u>हिन्दी पाठ्यक्रम ः आउटकॅम</u> <u>एम.ए. चतुर्थ सेमेस्टर–द्वितीय प्रश्न पत्र (अनिवार्य)</u> शीर्षक– पाश्चात्य काव्य–शास्त्र

- 1 पाश्चात्य काव्य शास्त्र से विश्व के प्राचीन एवं आधुनिक काव्य शास्त्रीय मूल्यांकन सहित आलोचनात्मक सिद्धान्तों एवं प्रवृत्तियों का समग्र ज्ञान होगा।
- 2 यूनानी साहित्य, अंग्रेजी साहित्य के प्राचीन सिद्धान्तों, चिंतकों के व्यक्तित्व–कृतित्व को समझा जा सकेगा।
- 3 प्राचीन यूनानी चिंतन प्लेटो, अरस्तू, लॉजाइनस आदि के समीक्षा सिद्धान्तों के वैश्विक प्रभाव एवं भारतीय साहित्य में उसके प्रभाव से बदलते समीक्षात्मक मूल्यों को परखा जा सकेगा।
- 4 पाश्चात्य समीक्षा सिद्धान्तों के ज्ञान से भारतीय एवं अन्य भाषा साहित्य के तुलनात्मक दृष्टिकोण का विकास होगा।
- 5 आधुनिक पाश्चात्य एवं भारतीय काव्य–दृष्टि का समग्र बोध होगा।

<u>हिन्दी पाठ्यक्रम– आउटकॅम</u> <u>एम.ए. चतुर्थ सेमेस्टर–तृतीय प्रश्न पत्र (अनिवार्य)</u> शीर्षक– प्रयोजन मूलक हिन्दी

- 1 सूचना प्रौद्यौगिकी के वर्तमान युग में इलेक्ट्रानिक मीडिया एवं अन्य तकनीकी ज्ञान की प्राप्ति होगी, जिससे आत्मनिर्भरता एवं स्वरोजगार का अवसर भी सम्मान जनक जीवन व्यतीत करने के लिए प्राप्त होगा।
- 2 हिन्दी भाषा एवं साहित्य के दृश्य एवं श्रव्य माध्यमों का वैज्ञानिक पद्धति से समग्र ज्ञान प्राप्त होगा।
- 3 हिन्दी कम्प्यूटिंग, अनुवाद सिद्धांत एवं व्यवहार के विविध पहलुओं को समझा जायेगा।
- 4 आधुनिक वैज्ञानिक युग में वैश्विक अन्तर्सम्बन्धों की दृष्टि से बहुभाषी अनुवाद का ज्ञान प्राप्त होगा।

<u>हिन्दी पाठ्यक्रम ः आउटकॅम</u> एम.ए. चतुर्थ सेमेस्टर—चतुर्थ प्रश्न पत्र (अनिवार्य) शीर्षक— छत्तीसगढी भाषा एवं साहित्य</u>

- 1 इसके अन्तर्गत छत्तीसगढ की राजभाषा के रूप में स्थापित छत्तीसगढ़ी भाषा के सभी पक्षों का विस्तृत ज्ञान होगा।
- 2 छत्तीसगढ़ी के साहित्य एवं वैयाकरणिक रूपों का परिचय मिलेगा।
- 3 छत्तीसगढ़ के नामकरण, भौगोलिक विस्तार, सामाजिक सांस्कृतिक परिदृश्य का बोध होगा।
- 4 छत्तीसगढ़ी की उपबोलियों एवं अन्तर्राज्यीय भाषा सम्बन्धों का परिचय प्रापत होगा।
- 5 छत्तीसगढ़ी के मानक रूप को स्थापित करने में सहायता मिलेगी।
- 6 राष्ट्रीय एवं प्रांतीय प्रतियोगी परीक्षाओं को उत्तीर्ण करने में दक्षता आयेगी तथा रोजगार का अवसर प्राप्त होगा।

<u>हिन्दी पाठ्यक्रम : आउटकॅम</u> एम.ए. चतुर्थ सेमेस्टर—लघु शोध प्रबंध (वैकल्पिक प्रश्न पत्र)</u>

- 1 चतुर्थ प्रश्न पत्र 'छत्तीसगढ़ी भाषा एवं साहित्य' के विकल्प में लघु शोध प्रबंध लेखन से शोध परक एवं क्षेत्र कार्य से सामाजिक जीवन का वास्तविक परिचय प्राप्त होगा।
- 2 लघुशोध प्रबंध की प्रस्तुति से व्यक्तित्व विकास होगा।
- 3 शिष्ट साहित्य, लोक साहित्य, वैश्विक साहित्य के विविध पहलूओं का सम्यक ज्ञानार्जन होगा।
- 4 बौद्धिक–अकादमिक प्रतिभा का उन्नयन होगा।
- 5 रचनात्मक क्षमता के विकास के साथ शोध प्रवृत्ति को गति मिलेगी।

<u>हिन्दी पाठ्यक्रम ः आउटकॅम</u> <u>एम.ए. चतुर्थ सेमेस्टर– परियोजना कार्य</u>

- 1 इस शोध परियोजना कार्य से मौलिक रचनात्मक प्रतिभा का उन्नयन होगा।
- 2 पाठ्येत्तर किसी एक विषय वस्तु के अनुसांधन परक परियाजना कार्य से छत्तीसगढ़ एवं रायगढ़ जिले के साहित्य, क्षेत्रीय लोक साहित्य, छत्तीसगढ़ी भाषा के विविध रूपों का परिचय मिलेगा।
- 3 रायगढ़ जिले के साहित्यकारों से साक्षात्कार लेना, इंटरनेट माध्यम से किसी एक साहित्यिक ब्लॉग का विश्लेषण फिल्म, रेडियो नाटक, टी.वी. धारावाहिक, वृत्तचित्र के लिए पटकथा लेखन का ज्ञान होना।
- 4 छत्तीसगढ़ी, उड़िया, हिन्दी आदि भाषाओं के अनुवाद का ज्ञान होगा।
- 5 आकाशवाणी में विविध कार्यक्रमों की संरचना—प्रस्तुति, प्रसारण, सामग्री संग्रहण, क्रियान्वयन का ज्ञान प्राप्त होगा।

(2) यू.जी. हिन्दी साहित्य पाठ्यक्रम हिन्दी पाठ्यक्रम : आउटकॅम स्नातक हिन्दी साहित्य– प्रथम सेमेस्टर शीर्षक– प्राचीन एवं मध्यकालीन काव्य

- 1 हिन्दी साहित्य के प्राचीन एवं मध्यकालीन काव्य के उद्भव विकास एवं विशेषताओं का ज्ञान होगा।
- 2 भक्तिकाल एवं रीतिकाल की सामाजिक, सांस्कृतिक, राजनैतिक परिस्थितियों एवं साहित्येतिहास का ज्ञान होगा।
- 3 कवि–कबीर, सूर, तुलसी, जायसी के भक्ति आन्दोलन से साहित्यिक प्रभावों का ज्ञान होगा।
- 4 रीतिकालीन कवि घनानंद सहित वीरगाथा कालीन चंद्रवरदाई, रसखान, भूषण के काव्य से ऐतिहासिक विकास का सम्यक बोध होगा।

<u>हिन्दी साहित्य पाठ्यक्रम : आउटकॅम</u> स्नातक हिन्दी साहित्य– द्वितीय सेमेस्टर शीर्षक– हिन्दी कथा साहित्य</u>

- 1 आधुनिक हिन्दी कथा साहित्य के अन्तर्गत बहु प्रचलित विधा उपन्यास एवं कहानी के स्वरूप एवं सामाजिक प्रभावों का ज्ञान होगा।
- 2 उपन्यासकार अमृतलाल नागर के उपन्यास 'मानस का हंस' से ऐतिहासिक पात्र एवं चरित्र पर आधारित रचनाकार के अन्तसंघर्ष एवं सामाजिक स्थितियों का ज्ञान होगा।
- 3 प्रेमचंद, फणीश्वरनाथ रेणु, जयशंकर प्रसाद, राजेन्द्र यादव की कहानियों में निहित मानवीय मूल्यों को आत्मसात किया जा सकेगा। व्याख्यात्मक एवं आलोचनात्मक प्रश्नों से बौद्धिक विकास होगा।
- 4 भगवतीचरण वर्मा, भीष्म साहनी, मोहन राकेश की कहानियों की रचनात्मकता का ज्ञान होगा।

<u>हिन्दी साहित्य पाठ्यक्रम : आउटकॅम</u> स्नातक हिन्दी साहित्य– तृतीय सेमेस्टर शीर्षक– आधुनिक हिन्दी काव्य</u>

- 1 आधुनिक हिन्दी काव्य के उद्भव विकास, प्रवृत्तियों एवं तत्कालीन राजनैतिक, सामाजिक, सांस्कृतिक परिस्थितियों को समझा जा सकेगा।
- 2 खड़ी बोली हिन्दी की विकास यात्रा को आधुनिक हिन्दी काव्य में परखा जा सकेगा।
- 3 स्वतंत्रता पूर्व एवं स्वातंत्र्योत्तर हिन्दी की साहित्यिक अभिव्यक्ति के परिवर्तनों के साथ शिल्पगत वैशिष्टको आत्मसात किया जा सकेगा।
- 4 व्याख्यात्मक एवं आलोचनात्मक प्रश्नों को हल की क्षमता का विकास होगा।
- 5 सामाजिक सांस्कृतिक जीवन मूल्यों को विकसित कर भारतीय एकता अखण्डता में सहभागी होने की समझ आयेगी।

<u>हिन्दी साहित्य पाठ्यक्रम : आउटकॅम</u> <u>स्नातक हिन्दी साहित्य–चतुर्थ सेमेस्टर</u> शीर्षक– हिन्दी नाटक, एकांकी एवं निबंध

- 1 आधुनिक हिन्दी गद्य के अन्तर्गत् सर्वाधिक लोकप्रिय विधा नाटक, एकांकी एवं निबंध के स्वरूप का ज्ञान होगा।
- 2 नाट्य एवं एकांकी विधा की प्रस्तुति के रंगमंचीय परिवर्तन एवं सामाजिक उपयोगिता का बोध होगा।

3 व्याख्या एवं आलोचना करने की क्षमता का उन्नयन होगा।

4 मानवीय सम्वेदना एवं जीवन मूल्यों को समझा जा सकेगा।

<u>हिन्दी साहित्य पाठ्यक्रम : आउटकॅम</u> <u>स्नातक हिन्दी– साहित्य पंचम सेमेस्टर</u> शीर्षक– छत्तीसगढ़ी भाषा साहित्य(वैकल्पिक)

- 1 छत्तीसगढ़ी भाषा साहित्य का ज्ञान प्राप्त होगा।
- 2 हिन्दी साहित्य की विकास यात्रा में छत्तीसगढ़ी साहित्य के महत्व का प्रतिपादन हो सकेगा।
- 3 जनपदीय भाषा छत्तीसगढ़ी के अध्ययन से अंचल के जन–जीवन में प्रचलित सभ्यता–संस्कृति का बोध होगा।
- 4 छत्तीसगढ़ी के प्रथम संत कवि धर्मदास की साहित्यिक साधना एवं छत्तीसगढ़ी साहित्य की भक्ति परम्परा का ज्ञान होगा।
- 5 आधुनिक छत्तीसगढ़ी साहित्यकार डॉ. विनय कुमार पाठक, मुकुंद कौशल की छत्तीसगढ़ी रचनाओं से अंचल की साहित्यिक सम्पदा का ज्ञान होगा।

<u>हिन्दी साहित्य पाठ्यक्रम : आउटकॅम</u> स्नातक हिन्दी साहित्य – पंचम सेमेस्टर शीर्षक– छत्तीसगढ़ी लोक साहित्य (वैकल्पिक प्रश्न पत्र)

- 1 हिन्दी की विविध बोलियों के अन्तर्गत छत्तीसगढ़ी के महत्व एवं विशेषताओं का ज्ञान होगा।
- 2 छत्तीसगढ़ी लोकसाहित्य की विपुल सम्पदा का परिचय प्राप्त होगा।
- 3 छत्तीसगढ़ी की मौखिक परम्पराओं के लोसाहित्य का संकलन–सम्पादन किया जा सकेगा।
- 4 छत्तीसगढ़ी लोकगीतों, लोककथाओं में व्यंजित जनजीवन के यथार्थ का बोध होगा।
- 5 छत्तीसगढ़ी को राजभाषा के रूप में स्थापित होने की शक्ति मिलेगी।

<u>हिन्दी साहित्य पाठ्यक्रम–आउट कॅम</u> स्नातक हिन्दी साहित्य–षष्ठ सेमेस्टर शीर्षक–हिन्दी साहित्य का इतिहास(रीतिकाल तक) (वैकल्पिक प्रश्न पत्र)

- 1 हिन्दी साहित्य इतिहास के साथ वीरगाथाकाल के विकास की प्रवृत्तियों का ज्ञान होगा।
- 2 वीरगाथा काल से रीतिकाल तक राजनैतिक, सामाजिक, सांस्कृतिक परिस्थितियों का आकलन किया जा सकेगा।
- 3 साहित्येतिहास लेखन की परम्परा, काल–विभाजन, नामकरण के आधारभूत तथ्यों को समझा जा सकेगा।
- 4 वीरगाथा काल, भक्तिकाल एवं रीतिकाल के विशिष्ट कवियों का समग्र ज्ञान अर्जित होगा।

<u>हिन्दी साहित्य पाठ्यक्रमः आउटकॅम</u> स्नातक हिन्दी साहित्य–षष्ठ सेमेस्टर

शीर्षक- हिन्दी साहित्य का इतिहास (आधुनिक काल) वैकल्पिक प्रश्न पत्र

- 1 आधुनिक हिन्दी साहित्य के इतिहास का समग्र ज्ञान होगा।
- 2 आधुनिक हिन्दी काव्यान्दोलनों कालान्दोलनों का ज्ञान होगा।
- 3 भारतेन्दु युग, द्विवेदी युग, छायावाद, प्रगतिवाद, प्रयोगवाद, नयी कविता के विकास एवं विशेषताओं का ज्ञान होगा।
- 4 आधुनिक हिन्दी साहित्य गद्य साहित्य की प्रमुख विधाओं उपन्यास, नाटक कहानी आदि के साथ ही संस्मरण, रेखाचित्र, यात्रा वृत्तांत, आत्मकथा जीवनी साहित्य का ज्ञान होगा।

<u>सामान्य हिन्दी पाठ्यक्रम ः आउटकॅम</u> <u>बी.ए., बी.एस.–सी, बी.कॉम, बी.सी.ए.</u> <u>स्नातक–चतुर्थ सेमेस्टर (अनिवार्य प्रश्न पत्र)</u> <u>शीर्षक– सामान्य हिन्दी</u>

- 1 हिन्दी भाषा के शुद्ध व्याकरणिक रूपों का ज्ञान होगा।
- 2 हिन्दी में कम्प्यूटर के अनुप्रयोग का ज्ञान होगा, जिससे स्वालम्बन एवं स्वरोजगार में भी क्षमता विकसित होगी।
- 3 राष्ट्रभाषा के रूप में हिन्दी की संवैधानिक स्थिति सशक्त होगी तथा अन्तर्राष्ट्रीय भाषा के रूप में स्थापित हिन्दी का प्रचार-प्रसार बढ़ेगा।
- 4 निजी, शासकीय, अर्द्धशासकीय पत्र व्यवहार, आवेदनों के प्रारूप का ज्ञान होगा, जिससे शासकीय सेवा के अवसर प्राप्त होंगे तथा सभी प्रतियोगी परीक्षा में सफल होने की योग्यता बढ़ेगी।
- 5 देवनागरी लिपि की वैज्ञानिकता से परिचित होंगे।

<u>सामान्य हिन्दी पाठ्यक्रम : आउटकॅम</u> <u>बी.ए., बी.एस–सी, बी.कॉम, बी.सी.ए.</u> <u>स्नातक–पंचम सेमेस्टर (अनिवार्य प्रश्न पत्र)</u> <u>शीर्षक– सामान्य हिन्दी</u>

- 1 हिन्दी भाषा में लिखे गये प्रसिद्ध चिंतकों, विद्वानों के सामाजिक आदर्श एवं राष्ट्रीय चेतना के विकास पर केन्द्रित निबंधों से ज्ञानार्जन होगा।
- 2 महात्मा गांधी, विनोबा भावे, आचार्य नरेन्द्र देव के निबंधों के साथ ही उनके जीवन के विविध पहलुओं से परिचित होंगे।
- 3 वासुदेवशरण अग्रवाल, भगवत्शरण उपाध्याय, हरि ठाकुर के निबंधों से वैचारिक स्तर एवं बौद्धिक क्षमता का विकास होगा।
- 4 हिन्दी भाषा के विविध रूप—सर्जनात्मक, संचार, राजभाषा, मीडिया की भाषा वित्त एवं वाणिज्य की भाषा आदि का ज्ञान होगा।
- 5 अन्य भाषाओं से अनुवाद का ज्ञान होगा। हिन्दी व्याकरण के अन्तर्गत संज्ञा, सर्वनाम, संधि समास आदि के ज्ञान से भाषा प्रयोग में दक्षता आयेगी।

CO HISTORY MA SEM I PAPER I		
	The Learner will be able to learn about	
CO 1	Gains meaning of History	
CO 2	Gains area of History	
	Relates History with geography sociology political science economics philosophy natural	
CO 3	science	
CO 4	gains knowledge about writing of history	
	CO HISTORY MA SEM I PAPER II	
	The Learner will be able to learn about	
CO 1	Introduction of 19th century	
CO 2	Political Status of world till 1919	
CO 3	World between two world war	
CO 4	Rising of adhinayak system	
	CO HISTORY MA SEM I PAPER III	
	The Learner will be able to learn about	
CO 1	Previous History	
CO 2	Regional Rajvansh	
CO 3	Maratha Era	
CO 4	Effect of British	
	CO HISTORY MA SEM I PAPER IV	
	The Learner will be able to learn about	
CO 1	Source of modern history	
CO 2	India around middle of 18 century	
CO 3	Expansion of British dynesty	
CO 4	War and expansion	
	CO HISTORY MA SEM II PAPER I	
	The Learner will be able to learn about	
CO 1	Advantage of History	
CO 2	Macro theory of History	
CO 3	Introduction of Indian History	
CO 4	Prime Debates of History	
	CO HISTORY MA SEM II PAPER II	
	The Learner will be able to learn about	
CO 1	Second world war and new political arrangements	
CO 2	Cold war and era of development	
CO 3	Economic and sociological Development	
CO 4	End of cold war	
	CO HISTORY MA SEM II PAPER III	
	The Learner will be able to learn about	
CO 1	British Era	
CO 2	History of Independence movement	
CO 3	Cultural history of Chhattishgarh	
CO 4	Importance of Hitorical places in Chhattishgarh	
	CO HISTORY MA SEM II PAPER IV	
	The Learner will be able to learn about	
CO 1	Sociological Changes	
CO 2	Social Reforms	
CO 3	Economical organisation	

CO 4	Oposition to Foreign administrations
	CO HISTORY MA SEM III PAPER I
	The Learner will be able to learn about
CO 1	Rising of States
CO 2	Maourya Society
CO 3	Gupt Dynesty
CO 4	Rajput States
	CO HISTORY MA SEM III PAPER II
	The Learner will be able to learn about
CO 1	Theories of sociological control
CO 2	Relation of British govt with states
CO 3	Theories of foreign relationship
CO 4	India and neighbour country
	CO HISTORY MA SEM III PAPER III
	The Learner will be able to learn about
CO 1	Introduction of indian economy
CO 2	Indian economy around middle of 18 century
CO 3	Previous stages of colonial economy
CO 4	land production
	CO HISTORY MA SEM III PAPER IV
	The Learner will be able to learn about
CO 1	Womens in indian history
CO 2	Womens in different religions
CO 3	Rights of womens
CO 4	Womens in independence movement
	CO HISTORY MA SEM IV PAPER I
	The Learner will be able to learn about
CO 1	Delhi dynesty
CO 2	States of Vijayanagar
CO 3	Moghal dynesty
CO 4	States of maratha and sikh
60.1	The Learner will be able to learn about
	Sociological structure
	Colonial objections and sociological changes
	Movements Social and religious reforms
CO 4	Movements of Aligarn
CO 1	Pailway and Indian economy
	Narro Industrios
	Palance between fereign trade and normante
	Value meyements
CU 4	value movements

	CO HISTORY MA SEM IV PAPER IV
	The Learner will be able to learn about
CO 1	Womens and their functional area
CO 2	Womens and culture
CO 3	Womens and religious movements
CO 4	Womens in political area
	CO HISTORY BA SEM I
	The Learner will be able to learn about
CO 1	Sources of Indian Histiry
CO 2	Rigvaidic region
CO 3	Rising of Magdh Dynesty
CO 4	Post Mourya Time
	CO HISTORY BA SEM II
	The Learner will be able to learn about
CO 1	Rising of Modern Era
CO 2	War of thirty years
CO 3	Home war in England
CO 4	Economy of modern western countries
	CO HISTORY BA SEM III
	The Learner will be able to learn about
CO 1	Sources of moghal history
CO 2	Establishment of Moghal dynesty
CO 3	Economy of saltanat era
CO 4	Art of sultanat era
	CO HISTORY MA SEM IV
	The Learner will be able to learn about
CO 1	Movement of France
CO 2	Viena congress
CO 3	Industrial movement
CO 4	Nepolian III
1	

	CO PO Sociology
	MA SOCILOGY SEM I Paper I
	Students will be able to learn about
CO 1	Beginning of sociology
CO 2	Social structure
CO 3	Theory of Email Durkhim
CO4	, Theory of Max Waver
	,
	MA SOCILOGY SEM Paper II
	Students will be able to learn about
CO 1	Theory of Wilfrado Pareto
CO 2	Theory of Redclif Brown
CO 3	Theory of Talfat parsans
CO4	Theory of Levi Stranse
	MA SOCILOGY SEM Paper III
	Students will be able to learn about
CO 1	Meaning of sociological research
CO 2	Theiries in sociological research
CO 3	Type of knowledge in sociology
CO4	Satatitics in sociological research
	MA SOCILOGY SEM I Paper IV
	Students will be able to learn about
CO 1	qualitative methods in sociological research
CO 2	Social survey
CO 3	quantitative methods in sociological research
CO4	Computer in sociological research
	MA SOCILOGY SEM II Paper I
	Students will be able to learn about
CO 1	Meaning of Industrial sociology
CO 2	Industrialisation
CO 3	Industrialisation and environment
CO4	Industrial movement
	MA SOCILOGY SEM II Paper II
	Students will be able to learn about
CO 1	Industrial Management
CO 2	Theory of social justice
CO 3	Labour movement
CO4	International Labour Organisations
	MA SOCILOGY SEM II Paper III
	Students will be able to learn about
CO 1	Social view of crime

CO 2 CO 3 CO4	Type of crime Causes of crime Transferable form of crime
CO 1 CO 2 CO 3 CO4	MA SOCILOGY SEM II Paper IV Students will be able to learn about Punishment and Theory Type of reforms Problems of reforms Jail
CO 1 CO 2 CO 3 CO4	MA SOCILOGY SEM III Paper I Students will be able to learn about Structure of Indian Society Religion Cultural differences in Indian society Social organisations
CO 1 CO 2 CO 3 CO4	MA SOCILOGY SEM III Paper II Students will be able to learn about Villages in Indian society Cast system Social science Indian Thinkers
CO 1 CO 2 CO 3 CO4	MA SOCILOGY SEM III Paper III Students will be able to learn about Social Change Sociological development Theory of social change Factors of social change
CO 1 CO 2 CO 3 CO4	MA SOCILOGY SEM III Paper IV Students will be able to learn about Modernisation in Ibdian society Social structure and development Small savings schemes Five year plans
CO 1 CO 2 CO 3	MA SOCILOGY SEM IV Paper I Students will be able to learn about Concept of Urban society Theory of Carl Marks Urbanisation

CO4	Structure of urban society
CO 1	MA SOCILOGY SEM IV Paper II Students will be able to learn about Status of new Urbanisation
CO 3	Caste and gender in urban society Housing problems in urban solety
CO4	Crime in urban area
	MA SOCILOGY SEM IV Paper III
CO 1	Students will be able to learn about
CO 2	Social foundation
CO 3	Nationality
CO4	Social movement and politicians
	BA SOCILOGY SEM I
	Students will be able to learn about
CO 1	Nature Area and relation to social science
CO 2	Sociology community Association
CO4	Cooperative and noncooperative process
	BA SOCILOGY SEM II
CO 1	Students will be able to learn about
	Caste class and religion
CO 3	Family Kinship
CO4	Globalisation
	BA SOCILOGY SEM III
co 1	Students will be able to learn about
CO 3	Caste system
CO4	Casteism Regionalism communalism
	BA SOCILOGY SEM IV
	Students will be able to learn about
CO 1	Type of crimes
CO 2	Criminality
CO 3	Punishment Role of police & indicional
CU4	Role of police & Judiciary

	BA SOCILOGY SEM V
	Students will be able to learn about
CO 1	Charecristics of Tribes
CO 2	Clssification of tribes
CO 3	Sociocultural profile
CO4	Problems of tribal peoples

BA SOCILOGY SEM VI

	Students will be able to learn about
CO 1	Significance of social research
CO 2	Positivism
CO 3	Types of research
CO4	Social statistics

DEPARTMENT OF PSYCHOLOGY B.A. ECONOMICS <u>COURSE OUTCOMES</u>

MICRO ECONOMICS

C01	Students are able to describe key concepts, theories, and related themes in
	Economics.
C02	understand the nature and scope of economics and methodology.
CO3	understand the utility and elasticity of a goods
C04	Students are able to describe about theory of production and various cost
COF	Know about different types of market and equilibrium of firm and price
LU5	determination
C06	
	Develop a understanding about factor pricing, wages, rent, profit, interest.
C07:	Understand the role of welfare economic in there everyday life

	<u>COURSE OUTCOMES</u>
	INDIAN ECONOMICS
C01:	know about the history of Indian Economy before Independence (i.e. Land
	system, monetary and currency policy or commercial and central banking
	development in Indian context)
CO2:	Know about the structure and frame work of Indian economy as well as
	Natural resource that is available in India for their economical growth
CO3:	Understand the role of population in Indian economy
CO4:	Know about the five years plans of India, objectives, allocation and targets.
CO5:	Know about the Economical reforms: liberalization, privatization and globalization.
C06:	Know about the role of Indrustial policies in economical development.
C07:	Understand the role of foreign trade in the development of Indian Economy.
	<u>COURSE OUTCOMES</u>
	MACRO ECONOMICS
C01:	Know about the National income and Social accout. And know how
	employment may be determined in economy
CO2:	understand the importance of consumption and investment
CO3:	understand the concept, nature, function and control of Trade cycles
CO4:	Know the importance of International trade and balance of payment
CO5:	Understand the role of International organization like IMF, World Bank and
	WTO. And also know about the change in indian economy through the
	composition and direction of forign trade

	<u>COURSE OUTCOMES</u>
	MONEY, BANKING & PUBLIC FINANCE
C01:	Understand the role of money in various economy
CO2:	Understand the value of money

CO3:	know about the commercial banking, types and its functions.
CO4:	Understand the role of RBI in India
CO5:	Understand the importance of public finance
C06:	Understand the role of government in Indian economy
C07:	Understand the meaning of taxation, their classification and its effect on
	Economy
C08:	Know about the public debt and financial administration.
CO9:	Know about the types of budgeting, prepration and passing methods.

	<u>COURSE OUTCOMES</u>
	Development & Environmental Economics
C01:	Understand about the Economical growth and development
CO2:	Know about the human development Index.
CO3:	know about the various population theories.
CO4:	Understand about the different growth models.
CO5:	Understand the role of Environment in Economy
CO6:	Understand about the environmental pollution control strategies
C07:	Understand the concept of Intellectual capital
C08:	Know about theGlobalization and Sustainable growth.
	<u>COURSE OUTCOMES</u>
	Statistical Methods
C01:	Understand the importance and delimitation of statistic in economics.
CO2:	Know about the different types of methods used in statistic
CO3:	know about the various types of Data, collection
CO4:	Understand about the sampling, sampling design, errors
CO5:	Understand the importance of graphical representation of data and
	frequency distribution
C06:	Know about the measures of central tendency
C07:	Know about the dispersion and dispersion methods
C08:	Know about the different types of correlation methods
C09:	Understant about the construction methods of Index number

	PROGRAM OUTCOME
P01:	Students will able to understand the Basic concept of Economics
P02:	Analyze operations of market under varying competitive conditions
PO3:	Analyze causes and consequences of unemployment, inflation and economic
	growth.
P04:	The students will be able to develop critical temper and creative ability.
P05:	Students should be able to identify, analyze, interpret and describe the
	critical ideas, values and themes on versatile topics of economics, political
	science, sociology etc.
P06:	This program helps to understand the various social, political and economic
	institutions in the world and their working principles.
	CO PSO Economics
	PROGRAM SPECIFIC OUTCOME

PSO1:	Students will develop a scientific approach towards varied branches of economics like economic development and planning, micro economics etc.
PSO2:	Students will be able to evaluate economic issues and public policy by using economic models or data analysis while identifyng underlying assumptions of the models and limitations
PSO3:	Able to understand the role of public sectors in economic development
PSO4:	students will be able to effectively communicate and debate economic ideas and policies
PSO5:	Students should be able to develop knowledge about the role of International trade in Economics
PSO6:	Students should be able to develop knowledge about monetary policy and its implications in economy
PSO7:	It provides a students with a wide array of both subject specific and transferable skills of enormous importance in todays modern inter dependent world.

	COURSE OUTCOMES MA Economics
	MICRO ECONOMIC ANALYSIS - I
C01:	Understand the basic economic problems
CO2:	Understand the role of deductive and Inductive methods
CO3:	know about the Elasticity of demand and theories of demand.
CO4:	Understand about the production function
CO5:	Understand about the modern theories of cost
C06:	Understand the importance of Equilibrium of different types of firms and
	their significance in different types of market.
	<u>COURSE OUTCOMES</u>
	THEORY AND PRACTICE OF STATISTICS - I
CO1:	Understand the importance of census and sample methods in statistics.
CO2:	Know about the different measures of Central Tendency
CO3:	know about the methods of measuring Dispersion.
CO4:	Know about different types of skewness and measurement of skewness
C05:	Understand about the index number, importance, construction and methods
C06:	Understand the concept of linear programming, formulation and solution of
	linear programming.
C07:	Understand the concept of Game and its limitation and theories.
	<u>COURSE OUTCOMES</u>
	INDIAN ECONOMIC POLICY
C01:	Understand about the sustainable development
CO2:	Know about the indicators of HDI & GDI
CO3:	know about the different economical development plans their motive,
	acheivements and strategies
C04:	Understand the broad demographic features of Indian population
C05:	Know about the Social infrastructure, education and Health

C06:	Know about how the land reforms take place in India
C07:	Understand about the agriculture, pricing, marketing & Finance.
C08:	Know about the Industrial policy and importance of small scale sectors and
	public sectors.
C09:	Know about the impact of globalization in Indian economy.
	DEMOGRAPHY
C01:	Understand the concept of demography, various theories of population
CO2:	Understanding the concept, importance, determinants of fertility, Nuptiality
	and Mortality.
CO3:	know about the concept, affect, distribution of Migration and Unbanization
CO4:	Understand the broad demographic features of Indian population
CO5:	Know about the demography data and population policies in India

	MICRO ECONOMIC ANALYSIS - II
C01:	Know about the Alternative theories of firm i.e. Baumol's, Williamson, Marris
	Model, Bain & Sylos Labini's Models.
CO2:	Understand the theory and Determinants of distribution i.e. Rent, wages,
	interest & profit
CO3:	Know about the welfare economic theories of Pareto;s & Pigovian
CO4:	Understand Walrasian excess and Stopler-Samuelson Theorem.

	THEORY AND PRACTICE OF STATISTICS - II
C01:	Understand the meaning, assumption, limitation and measurement of
	correlation coeffiicient
CO2:	Know about the regression Analysis: Regression line, equation, coefficient
	and standard error of the estimates
CO3:	Know about the Interpolation and extrapolation Methods
CO4:	Understand the association of Attributes & Probability
CO5:	Understand formulation of statistical hypothesis
	INTERNATIONAL TRADE AND FINANCE
C01:	Understand the various theories of International trade
CO2:	Understand the measurement of Gains and theory of Interventions i.e. Tariff,
	Quotas and non tarrif barriers
CO3:	Know about the meaning and components of balance of payments
CO4:	Understand the process of adjustment BOP
CO5:	Understand the theories of Regional Blocks: SAARC, SAPTA, ASEAN, UNAFTA
CO6:	Know about the International Monetary system and Trade- IMF, World Bank,
	GATT, UNCTAD
CO7:	Know about the problems and trade policies in India
C08:	Know about the changes in the direction and composition of Forign trade in
	India.
	INDUSTRIAL ECONOMICS
C01:	Understand the framework and problems of Industrial economics
CO2:	Understand the theories of Industrial location
CO3:	Know about the Indian Industrial growth and pattern

CO4:	Know about the Industrial finance of IDBI, IFCI, SFCS, SIDC and commercial
	bank
C05:	Know about the Industrial labor, legislation and Industrial relation
C06:	Know about the small scale and large scale industries.
	MACRO ECONOMIC ANALYSIS - I
C01:	Know about the National Income and accounts
CO2:	Understand the consumption and investment functions
CO3:	Know about the commercial bank and credit creation
CO4:	Understand the RBI approaches to money supply and control of money supply
C05:	Know about the Demand for money theories of Fishers, Cambridge & Keynes
	PUBLIC ECONOMICS - I
C01:	Understand the role of Government in Organise society
C02:	Know about the causes of Market failure
CO3:	Know about the private and public mechanism for allocation of Resources
C04·	Know about the various theories of Public expenditure
CO4.	Know the reforms in expenditure hudgeting and various types of hudget
005.	Know the reforms in expenditure budgeting and various types of budget
C06:	Know about the theories of incidence and theory of optimal taxation
CO7:	Know about the indirect taxs reforms
	ECONOMICS OF GROWTH AND DEVELOPMENT - I
C01:	Understand the factors effecting economic growth and economic growth
	models
CO2:	Know about the intellectual capital
CO3:	Understand the role of learning in education and Research
CO4:	Know about the various classical theories of development
C05:	Know about the approaches of growth and development
	ECONOMICS OF SOCIAL SECTOR AND ENVIRONMENT
C01:	Understand the fundamental theorems of welfare economics
CO2:	Know the measures of environmental Values
CO3:	Understand the theories of Environmental polices
CO4:	Understand about the Environmental and natural resources problems in
COF.	India.
COS:	Know about the environmental laws and their implementation
COP:	Understand the importance of education for economical growth. cost and
C07.	Denefits of education
607.	Understand the health unitensions of development, determinants and
	MACRO ECONOMICS ANALYSIS - II
C01·	Understand the Neo- classical and Keynesian Synthesis
CO2:	Know about the Post Keynesian approaches demand for money
CO3:	Understand the models of Mundell - Fleming and monetary approach to
005.	halance of navments
C04·	Understand about the various approaches of Inflation
CO5:	Know about the Philips Curve
C06	Understand the different theories and control of Bussiness Cycles
000.	onderstand the amerent meeties and control of Dassiness dycles

	PUBLIC ECONOMICS - II
C01:	Understand the various aspects of Public debt.
CO2:	Know about the objectives of Fiscal policy
CO3:	Understand the interdependence of Fiscal and monetary policies
CO4:	Understand about the Fiscal Federalism in India
CO5:	Know about the division of finance between centre and state
C06:	Know about the formation and function of Finance commission and Planning
	commission.
C07:	Understand the analysis process of central and state government budget.
	ECONOMICS OF GROWTH AND DEVELOPMENT - II
C01:	Understand the role of agriculture in economic development
CO2:	Know about the role of globalization in agriculture sector
CO3:	Know about the terms of trade between agriculture and Industries.
CO4:	Understand about the trade and economical development
CO5:	Know about the nneds for investment criteria in developing countries
C06:	Understand the need for planning and reviews of Indian plan models
	LABOUR ECONOMICS
C01:	Understand the nature and characteristics of labour market
CO2:	Know about the labour market policies
CO3:	Know about methods of recruitment and placement
C04:	Understand about the employment and development relationships
CO5:	Know about the theories of wages determination
C06:	Understand the theories of labour movement
C05:	Understand the role of labour legislation in India
C06:	Understand about the labour market reforms
C07:	Know about globalization and labour market

	PROGRAM SPECIFIC OUTCOME
PSO1:	Students of Economics will be able to understand the past, present Economic condition of the Country. They will also be able to forecast the future course of change and development through their knowledge of program and policies
	set by the goverment and other agencies
PSO2:	Students are equipped with the techniques to find solution of the problems like mobilization of manpower and materials available in the country
PSO3:	Students will understand how externall factors affect the functions of Market
PSO4:	Able to understand the role of public sctors in economic development
PSO5:	Students should be able to develop knowledge about various statistical tools used for data interpretation

Students should be able to develop knowledge about the role of international
trade in Economics
Students should be able to develop knowledge about the major government
mechanism used to rectify economic issues in a country
Students should be able to develop knowledge about monetary policy and its
implications in economy
Students should be able to develop knowledge about economic planning in
India and recent changes in our economy

Course Outcome M.A.- ENGLISH

Sem-III	To acquaint the students with different critical theory and methodology for better
Domon I	interpretation of a literary text.
Paper-I	To acquaint them with different school of thoughts.
Critical Theory	
Sem-III	To have a better understanding of American society by critically examining literary
C III	text representing the different time period.
Sem-III	the Indian English.
Paper-III	
Indian English	
Literature	
Sem-III	To provide an understanding of communicative system, its organ and their working,
Paper-IV	developing of language and the key concept of the linguistics.
Linguistics	
Sem-IV	To make the students aware of the new trends and literary theories of criticism
Paper-I	And enable them to evaluate literary text according to them.
Contemporaries	
theory of	
criticism	
Sem-IV	To introduce the students to the major movements of cinema as a genre, the trends
Paper-II	in Indian cinema, need of adaptation of a literary text, film reviewing and literature
Film Studies	
Sem-IV	To enable the students understand the colonial and post-colonial perspective of
Paper-III-A	human existence and representation of history the novel includes in the syllabus.
Colonial and	
Post-Colonial	
Literature	
Sem-IV	To sensitizing the students about the existing inequality in our social structure and
Paper-III-B	make them understand the deeper reality of a rituals and customs.
Diaspora and	
Dalit Literature	To consistive the students about Women's emotions, conjustions and their problems
(optional)	To sensitize the students about women's emotions, aspirations and then problems.
Paper-IV-A	
Women's	
Studies	
Sem-IV	To sharpen the critical faculty of the students by making them probe deeper into
	cnosen topic.
Paper-IV-B	
Dissertation	

B.A. English Literature

Course	Outcome
B.A. Sem-I	To introduce the students with the basic knowledge of English Literary terms and figure of speech. To introduce them with different genres of English literature and enable them to understand the social milieu and literature of time.
B.A. Sem-II	
B.A. Sem-III	To introduce the students with the basic knowledge of genres of English, literary form of Literature prose and fiction and their variants. To introduce the political, social and cultural context of the period through the prose, fiction and short stories through representative texts from 18 th and 19 th centuries
B.A. Sem-IV	To introduce the students the meaning and importance of figure of speech. Study of poetry, drama and fiction in the period of 20 th century as a vehicle of representing personal experience, moved into literary, social and cultural criticism and engaged the polemic and persuasion. Discussion on variety of contemporary issues
B.A. Sem-V	To introduce the students with advance literary terms to acquire the more analyzing capacity. To acquire students with thematic concerns genre and trends of Indian writing in English.
B.A. Sem-VI	To introduce literary terms that coined out from American literature. To introduce origin of American literature and also its historical and cultural development.

	CO Geography MA Sem I paper I
	The Learner will be able to learn about
CO 1	Introdution of Geomorphology
CO 2	Exogenic process
CO 3	Geomorphological Cycles
CO 4	Development of Landscapes
	CO Geography MA Sem I paper II
	The Learner will be able to learn about
CO 1	Nature and scope of Climatology
CO 2	Acid Rain
CO 3	Principles of physical materiology
CO 4	Principles of synaptic materiology
	CO Geography MA Sem I paper III
	The Learner will be able to learn about
CO 1	Geography in social and natural science
CO 2	Geography and environmentalism
CO 3	Growth of geographical knowledge
CO 4	Scienfic explaination of geography
	CO Geography MA Sem I paper IV
	The Learner will be able to learn about
CO 1	Physical & Biological elements of geography of India
CO 2	Agriculture
CO 3	Sources of Power
CO 4	Industrial development
	CO Geography MA Sem II paper I
60.4	The Learner Will be able to learn about
CO 1	Nature & scope of economic geography
CO 2	Quality & Quality of human resources
CO 3	
CU 4	Conservation of numan resource
	CO. Goography MA Som II paper III
	The Learner will be able to learn about
CO 1	Nature and scope of oceanography
	marine biological environment
CO 3	Biological Cycle
CO 4	Law of sea
ļ	CO. Geography MA Sem II paper IV
	The Learner will be able to learn about
CO 1	Regional Planing
CO 2	Spacial organisation
CO 3	Regional planning in India
CO 4	Approaches and Stratgies of regional developement
	CO Geography MA Sem III paper I
	The Learner will be able to learn about
CO 1	Social geography
CO 2	Environment space & ecology

CO 3	Social well
CO 4	Social development planning
	CO Geography MA Sem III paper II
	The Learner will be able to learn about
CO 1	Mathematical construction of world projections
CO 2	Interpretation of maps
CO 3	Principles of topological surveying
CO 4	Solution of problems in surveying
	CO Geography MA Sem III paper III
	The Learner will be able to learn about
CO 1	Introduction of Population Geography
CO 2	Growth of population
CO 3	Population composition
CO 4	Migration of population
	CO Geography MA Sem III paper IV
	The Learner will be able to learn about
CO 1	Objective of settlement geography
CO 2	Rural settlement
CO 3	Urban settlement
CO 4	Central place theory
	CO Geography MA Sem IV paper I
CO 1	
$\begin{array}{c} c \\ c \\ c \\ \end{array}$	Theory of urban structure
CO 3	Functional classification of towns
CO 4	Urban planning in India
	CO Geography MA Sem IV paper II
	The Learner will be able to learn about
CO 1	Scope of Agricultural Geography
CO 2	Determinants of agricultural land use
CO 3	Theories of agricultural location
CO 4	Role of irrigation
	CO Geography MA Sem IV paper III
	The Learner will be able to learn about
CO 1	Basics of tourism
CO 2	Geography of Tourism
CO 3	Indian Tourism
CO 4	Impact of Tourism
	CO Geography MA Sem IV paper IV
	The Learner will be able to learn about
CO 1	Scope of Biogeography
CO 2	Elements of plant geography
CO 3	Zoogeography
CO 4	National forest policy of India

DEPARTMENT OF PSYCHOLOGY <u>COURSE OUTCOMES</u>

COGNITIVE PROCESSES - I C01 To provide an in-depth understanding of some of the cognitive processes in terms of current theories, models and applications C02 To help learners understand the importance of these cognitive processes in everyday life **COURSE OUTCOMES RESEARCH METHODOLOGY - I** C01 To familiarize the students with the various dimensions and methods of research C02 To be able to select and identify different research problem and parameters C03 To empower students with the knowledge and skills they need, to undertake a research To understand the need and importance of research & statistics C04 To learn the usefulness of different statistical methods to analyze psychological data C05 **COURSE OUTCOMES PSYCHOPATHOLOGY - I** C01 To know about the abnormal behaviour and the historical views of Abnormal Behaviour C02 Better understand one's own and others' behaviour by applying the knowledge of assessment, diagnosis, classification systems and DSM & ICD categories. CO3 To understand the causal and risk factors of abnormal behaviour. To obtain the clinical picture of anxiety disorders, somatoform disorders, schizophrenia, mood disorders, C04 causal factors of mental disorders, treatment and outcome. C05 To gain newer insights on prevention and treatment of mental disorders. Become a more effective consumer of advocate for mental health care services through an understanding C06 of the various approaches to the diagnosis and treatment of psychological disorders.

	COURSE OUTCOMES
	LIFE SPAN DEVELOPMENT - I
CO1	To know about the development processess of human being and factors that affecting their behaviour in
	different developmental stages
CO2	To know and understand how the motor, physical and linguistic development take place in developmental
	stages and factors that affecting these kinds of development
CO3	Learning about the different methods which are using in developmental studies.
	<u>COURSE OUTCOMES</u>
	Practical - I
CO1	The students may know the differentiation between test and experiment
CO2	To know how to administered and conduct experiments
CO3	To know about the psycholgical instrument using in assessing different cognitive abilities
	<u>COURSE OUTCOMES</u>
	Practical - II
C01	To differentiate between test and experiment
CO2	To know how test will be administered, scoring, and anylized the test results
CO3	To know with the help of personality, IQ testing how they can assess and judge the personality of others.
	COGNITIVE PROCESSES - II
CO1	Developing undestanding about different cognitive process like memory, metamemory and concept
	formation
CO2	To help learners understand the importance of these cognitive processes in there everyday life
CO3	Students learning about the types of memory, Sensory, Iconic & Echoic memories - Measures and empirical
	features. Short term memory. Methodology, Size, Codes, Long term memory kinds.
CO4	Understands the memory model structure and levels of processing model. Tulving's Episodic, Semantic and
	procedural model, Mc clelland's PDP Approach.
CO5	Understands Semantic memory: Nature, Methodology & Structure, models of semantic memory. Features
	comparison model and network model.
CO6	Understands Concept formation: Well - defined concepts features and rules. Empirical determinants and
	selection strategies. III defined concepts (Natural categories) empirical characteristics and models Exempolar
	and prototype models.
C07	Understands the Meta memory: meta cognition, Tip of the Tongue phenomenon. Mood and memory, Eyewitness
	testimony. Memory improvement, family resemblance, Scheme in relation to memory.
	<u>COURSE OUTCOMES</u>
	RESEARCH METHODOLOGY - II
CO1	To familiarize the students with the various dimensions and methods of research

CO2	To understand the importance of research work and gain knowledge of different research design which
	are used for research purpose.
CO3	To empower students with the knowledge and skills they need, to undertake a research
CO4	To understand the need and importance of computer application in research work.
<u>CO5</u>	To understand what ethical issues may be remember while doing research work.
C06:	Student knows how to write research proposal and report writing
	<u>COURSE OUTCOMES</u>
004	PSYCHOPATHOLOGY - II
CO1	Student may know how psychological variable play role in developing physiological disorders and
<u>CO2</u>	psychosomatic disorders.
602	disorder and eating disorder
CO3	student learn about the classification, types, causes and possible training for mental deficiet childres or
	gifted child
C04	Learn about the different psychological therapies used for clinical purpose (Reeducative therapies,
	behavioural, client centered, grouped and family therapies.
C06	Become a more effective consumer of advocate for mental health care services through an understanding
	of the various approaches to the diagnosis and treatment of psychological disorders.
	<u>COURSE OUTCOMES</u>
CO1	LIFE SPAN DEVELOPMENT - II
C01	students understand theuriteria, stages and Determinants of Social Development, Personality
<u> </u>	development and formation of self concept.
02	stages and factors that affecting these kinds of development
C03	Understand about the development during adolescence. Adulthood and old age - specially - Physical
005	Psychological Social and Emotional aspects, and also known about the Hazards occur during. Adolescence
	i sychological, social and Emotional aspects, and also known about the mazarus occur during Audiescence
	COURSE OUTCOMES
	Practical - III
CO1	The students may know the differentiation between test and experiment
CO2	To know how to administered and conduct experiments
CO3	To know about the psycholgical instrument using in assessing different cognitive abilities
	<u>COURSE OUTCOMES</u>
	Practical - IV
CO1	To differentiate between test and experiment
CO2	To know how test will be administered, scoring, and anylized the test results
CO3	To assess emotional and social maturity, mental health, personality and different psychological variables.
601	PSYCHOLOGY OF PERSONALITY - I
CO1	Able to define personality, and also know what are the determinant that determine the
602	personality(Biological, sociological, Economical & Cultural)
CO2	Critically evaluate and compare different theories of personality
CO4	Be able to gain and understanding the main approaches to personality theory
C04	
	Social Psychology - I
CO1	Understand the major theories of social nsychology related to genetic cognitive, nsychoanalytic and
001	onderstand the major theories of social psychology related to genetic, cognitive, psycholaralytic and
CO2	hehavioral phenomenon
	behavioral phenomenon. Able to describe the scientific methods used to obtain knowledge about social behavior.
CO3	behavioral phenomenon. Able to describe the scientific methods used to obtain knowledge about social behavior. Able to understand how individual behaviour may be change due to group pressure. Know about the
CO3	behavioral phenomenon.Able to describe the scientific methods used to obtain knowledge about social behavior.Able to understand how individual behaviour may be change due to group pressure. Know about thedeterminants by which individual can show conformity.
CO3	behavioral phenomenon. Able to describe the scientific methods used to obtain knowledge about social behavior. Able to understand how individual behaviour may be change due to group pressure. Know about the determinants by which individual can show conformity. understanding the effects of group membership on individuals, including; groupthink; social facilitation;
CO3 CO4	behavioral phenomenon. Able to describe the scientific methods used to obtain knowledge about social behavior. Able to understand how individual behaviour may be change due to group pressure. Know about the determinants by which individual can show conformity. understanding the effects of group membership on individuals, including: groupthink; social facilitation; social loafing. Demonstrate knowledge of how to prevent groupthink and social loafing.
CO3	behavioral phenomenon.Able to describe the scientific methods used to obtain knowledge about social behavior.Able to understand how individual behaviour may be change due to group pressure. Know about the determinants by which individual can show conformity.understanding the effects of group membership on individuals, including: groupthink; social facilitation; social loafing. Demonstrate knowledge of how to prevent groupthink and social loafing.
CO3 CO4 CO5	behavioral phenomenon. Able to describe the scientific methods used to obtain knowledge about social behavior. Able to understand how individual behaviour may be change due to group pressure. Know about the determinants by which individual can show conformity. understanding the effects of group membership on individuals, including: groupthink; social facilitation; social loafing. Demonstrate knowledge of how to prevent groupthink and social loafing. Understanding of the causes and effects of aggression, including: basic theories of human aggression
CO3 CO4 CO5	behavioral phenomenon. Able to describe the scientific methods used to obtain knowledge about social behavior. Able to understand how individual behaviour may be change due to group pressure. Know about the determinants by which individual can show conformity. understanding the effects of group membership on individuals, including: groupthink; social facilitation; social loafing. Demonstrate knowledge of how to prevent groupthink and social loafing. Understanding of the causes and effects of aggression, including: basic theories of human aggression (biological, evolutionary, and socio-cultural); personal, situational, and social influences; aggression and
CO3 CO4 CO5	behavioral phenomenon. Able to describe the scientific methods used to obtain knowledge about social behavior. Able to understand how individual behaviour may be change due to group pressure. Know about the determinants by which individual can show conformity. understanding the effects of group membership on individuals, including: groupthink; social facilitation; social loafing. Demonstrate knowledge of how to prevent groupthink and social loafing. Understanding of the causes and effects of aggression, including: basic theories of human aggression (biological, evolutionary, and socio-cultural); personal, situational, and social influences; aggression and violence in media. Demonstrate knowledge of both effective and ineffective ways to reduce aggression and
CO4 CO5	behavioral phenomenon. Able to describe the scientific methods used to obtain knowledge about social behavior. Able to understand how individual behaviour may be change due to group pressure. Know about the determinants by which individual can show conformity. understanding the effects of group membership on individuals, including: groupthink; social facilitation; social loafing. Demonstrate knowledge of how to prevent groupthink and social loafing. Understanding of the causes and effects of aggression, including: basic theories of human aggression (biological, evolutionary, and socio-cultural); personal, situational, and social influences; aggression and violence in media . Demonstrate knowledge of both effective and ineffective ways to reduce aggression and violence

C06	Understanding of the theories and factors surrounding interpersonal attraction, including: predictors of
	liking and loving (including evolutionary and socio-cultural theories); social influence of physical
	attractiveness; factors that characterize satisfactory relationships and theories that predict satisfaction
	maintenance and dissolution of relationships (both friendships and romantic relations).
	<u>COURSE OUTCOMES</u>
	EDUCATIONAL PSYCHOLOGY - I
CO1	Understand the nature, scope and methods of Educational Psychology
CO2	Know about the different trait and qualities of becoming a effective or influential teacher and understand about the way for teachers professional growth
CO3	Develop understanding about concept formation, different types of thinking and their development,
	problem solving strategies , and know about the methods to developed creativity among students
CO4	Able to understand the meaning of motivation and their types and enhancing motivation methods for it.
C06	Know the importance of class room envioronment for effective teaching and provide suitable environment
	for learner for there all over development.
	COURSE OUTCOMES
	CLINICAL PSYCHOLOGY
C01	Able to understand the historical background and different models of clinical Psychology.
CO2	Know the examination methods of psychiatric patient i.e case history method, interview, mental status
CO3	Know about the projective techniques, like Rorschach, TAT, Draw a person Test, and clinical relevance.
CO4	Know about the clinical assessment processess
C05	Applications of psychotherapies and their importance in psychiatric treatment
	<u>COURSE OUTCOMES</u>
	Practical - V
CO1	The students may know the differentiation between test and experiment
CO2	To know how to administered and conduct experiments
CO3	Using projective techniques, like Rorschach, TAT, Draw a person Test
	COURSE OUTCOMES
	Project - VI
C01	Making synopsis related to Psychological variables
	PSYCHOLOGY OF PERSONALITY - II
CO1	Known about hte different schools of Psychology
CO2	Be able to gain and understanding the main approaches to personality theory
CO3	Critically evaluate and compare Humanastic theories given by Maslow, Rogers and Murray
CO4	Understanding personality theory of Lewin (Feild theory) and Five factor model of Personality
CO5	Know about hte different personalities inventories and their advantages and their applicapability in
	present scenario.
	<u>COURSE OUTCOMES</u>
	Social Psychology - II
C01	Understand the nature of attitude their measurement and theories of attitude change.
CO2	Know about the prejuidice and their determinant and also know how it is maintained in society.
CO3	understand about the different social motives and their importance and the theoretical explanation of it.
CO4	Know the theoretical explantion of social influence (Attribution and person perception)
CO5	Understand about the verbal and non verbal communication, its effectiveness and barriers in effective
	communication. Mass media and propoganda
	COURSE OUTCOMES
	EDUCATIONAL PSYCHOLOGY - II
C01	Understand the theoretical perspective of Educational Psychology
CO2	Know about the different models of educational psychology
CO3	understand about the human diversity and education
C04	Learn about the different teaching methods and their importance in Educational field
C06	Learn about the evaluation and types of educational assessment
	<u>COURSE OUTCOMES</u>
	COUNSELLING PSYCHOLOGY
C01	Understand the meaning, goal and needs of guidance and counselling.
CO2	Learn about the theories and techniques of counselling
CO3	Know about the qualities of effective counsellor and ethical issues in counselling
C04	learn about the importance of guidance and counselling in the field of education and career

CO5	learn about the occupation and their classification and also know about the occupational information and	
	their needs in daily life.	
	<u>COURSE OUTCOMES</u>	
	Practical - VII	
C01	learn how to make Job oriented project work	
	<u>COURSE OUTCOMES</u>	
	Practical - VIII	
C01	conduction of experiments of social conformity and social facilitation and test related to educational and	
	social areas.	
	Program Specific Outcomes	
PSO 1	Applying the theoretical knowledge of psychology in real life.	
PSO 2	Students will develop execution of experiments and psychological testing.	
PSO 3	Students will explain how to relate psychology in human real life	
PSO 4	Use & Applying theoretical knowledge for identification of Normal & abnormal behaviour.	
PSO 5	To create a strong research oriented theoretical foundation in consonance with recent advances in	
	the discipline of psychology.	
PSO 6	Using different psychological therapies in intervention of Psychological and physiological disorders	

Program Outcome	
P01	Describe about the different cognitive processes
P02	Analyse the data by using statistical methods
P03	Describe about the significance of statistics & Research in psychology
P04	Describe about the different techniques or methods of data Collection
P05	Apply theoretic knowledge in clinical/Practical field
P06	Classified the disease on the bases of its symptom, make better diagnosis.
P07	Classified the disease by using classification system (DSM- IV & ICD)
P08	Using different research design in research work of psychology
P09	Make research proposal
P010	Using different therapies in treatment & prevention of Psycho-physiological disorders.

DEPARTMENT OF PSYCHOLOGY B.A. PSYCHOLOGY COURSE OUTCOMES

<u>COURSE OUTCOMES</u> BASIC PSYCHOLOGICAL PROCESSES - I

C01	They are able to describe key concepts, approaches, and related themes in psychology.
C02	They know how the behaviour is regulate and control by biological factor (Genes, Hormones &
	Glands)
CO3	They know what the variables that regulate and control theiremotion. What are their types and how we
	can manage our emotions in different situation?
C04	Role of perception in perceiving things and its analysis.
C05	Understand the process of thinking in problem solving strategies.
C06	Attention and its importance and determinants that affected their attention processes.
C07:	They know how the learning will take place and also know the processes that are involved in
l	memorization. They know methods for improving their memory.
C08:	They know about the Intelligence and its types. Methods or tools to assess their I. Q.
C09:	How they can motivate us and others and what is the relevance of motivation in their life.
CO10:	They learn how they can improve their personality, what the trait that determines their personality,
	factors that affecting their personality development and also know about the assessment of personality.
	<u>COURSE OUTCOMES</u>
	PSYCHOPATHOLOGY
C01:	Enhance personal and social interactions by using the knowledge of the history and major theories of
	abnormal behaviour.
CO2:	Better understand one's own and others' behaviour by applying the knowledge of assessment, diagnosis,
	classification systems and DSM & ICD categories.
CO3:	Become a more effective consumer of advocate for mental health care services through an inderstanding of
	the various approaches to the diagnosis and treatment of psychological disorder
	<u>COURSE OUTCOMES</u>
	SOCIAL PSYCHOLOGY
C01:	Understand the importance of social determinant in deciding their behaviour and shaping their
	personality.
<u>CO2:</u>	Understands the nature, goal, scope and methods of social psychology.
CO3:	Understanding the role of stereotypes, prejuidice in making attitude formation towards any country,
	people and events.
<u>CO4:</u>	Know about the types of leadership, group structure, formation and its function.
LU5:	Understanding the nature and consequence of social issues.
	<u>COURSE OUTCOMES</u>
C01.	PSYCHOLOGICAL ASSESSMENT
C01:	Know about the psychological test, their types and their application in every day life.
CO2:	Learn about what are the steps involve in test construction and know how to construct a psychological test
	for assessing different mental abilities and psychological variables.
CO3:	Understands difference between cognitive and non – cognitive test and their relevance in applied aspects
1	

	<u>COURSE OUTCOMES</u>
	PSYCHOLOGICAL STATISTIC
C01:	Understanding the basic concept of Statistics
CO2:	To understanding the nature of data distribution
CO3:	Know the significance of statistics in Psychology
CO4:	Learn the organization of given data
CO5:	Acquire knowledge on graphical representation of Data
CO6:	Understanding the concept of measures of central tendency variability, Normal probability,
	correlation & inferential statistics.
C07:	Understanding the application of computers in Psychology.
C08:	Calculation of data using statistics
	<u>COURSE OUTCOMES</u>
	HUMAN DEVELOPMENT
C01:	Understanding the concept of Human Development
CO2:	Know about the stage and principles of Human Development
CO3:	Understanding the role of genetics and environmental factors in determining the human
	development
CO4:	Learn about the approaches and theories of HumanDevelopment.

205	
C05:	Understanding the process of Socialization
CO6:	Know about the emotional, Social, Physical & Moral development take places in different stages of
	Human Development.
C07:	Understanding the role of Marriage, occupation and family in Human Development.
C08:	Understanding about the concept of development of self concept.
C09:	Knowing about the problems arises in Old age
	<u>COURSE OUTCOMES</u>
	Practical - I (Semester - II Experiment and Test)
C01:	Know about the administration and conduction of experiment on division of attention, STM, Retroactive
600	inhibition & Judgement of emotion through facial expression
C02:	Know about the different psychological test, administratin, scoring and their interpretation. (Anxiety test,
	Intelligence test, Adjustment and Acheivement test)
	<u>LUUKSE OUTLUMES</u>
001	Practical - II (Semester - IV Experiment and Test)
C01:	Know about the administration and conduction of experiment on social facilitation, stereotypes,
CO2.	Sociometery and effect of order of information on person perception
C02:	thow about the unierent psychological test, aunimistratin, scoring and their interpretation. (Aggression
	Dractical - III (Comester - VI Evneriment and Test)
C01·	Know about the administration and conduction of experiment on Muller lyer illusion denth perception
601.	Nilow about the autimistication and conduction of experiment on maner iyer musion, depair perception,
C02·	Know about the different neverological test administratin scoring and their interpretation (Mental
602.	How about the uncerent psychological test, administratin, scoring and then interpretation. (mental
Program	n Outrome
P01:	Describe applications of psychology in different field
PO2;	Provide the applications of psychology in american
P03:	Use scientific reasoning to interpret psychological phenomena
P04:	Demonstrate psychology information literacy
P05:	Engage in innovative and integrative thinking and problem solving
P06:	Assessment of their own and other personality
P07:	Assessment and analysis of their behaviour and others
P08:	Measurement of I.Q.
	Program Specific Outcome
PSO1	Apply theoretical principles of psychology in their practical life
PSO2	Basic understanding of the subject
PSO3	Help in Shapeup their personality
PSO4	Create better learning environment and enhance their learning and memory power.
PSO5	Help in Developing self concept
PSO6	Better understanding of behaviour of self and others
PSO7	Exhibit effective presentation and communication skills
PS08	Describing the Role of neuropsychology in determining their behaviour and personality.
PSO9	Describe the basic structures and functions of the nervous system and the implications of brain-
	behaviour relationships for psychological disorders.
PSO10	Describe the role of social psychology in their life
PS011	Students will explain nature, goal, methods, social perception, stereotype, leadership social issues of social
	psychology.
PS012	Students will develop execution of experiments and psychological testing.