Subject Outcomes

Physics

Paper Code	Paper Name	Outcome
R So I S	m I	
D.50-1 5		
PH-101	Classical	After successful completion of the course, Students will be able to-
	Theory of	• Know and understand the mechanics of a single particle and system of particles.
	Relativity	 Solve and analyze equations of motions using Lagrange's eqn of motion. Differentiate between inertial and Non-inertial frame of references and describe how.
		fictitious forces arise in a non-inertial frame. Understand the importance of Michelson
		Morley's experiment in reference to special theory of relativity.
		• Understand Lorentz transformations, Length contraction, time dilation, twin paradox, velocity addition analyze the problems relating to mass-energy equivalence.
PH-102	Electricity and Magnetism	 Know about Gradient of a scalar and its physical significance, Line, Surface and Volume integrals of a vector and their physical significance Introduce Gauss' Law and clearly understand how to apply it. Analyze the value of Maxwell equation- boundary conditions Learn about the Magnetic induction & flux, Solenoidal nature of vector field of induction, properties & Electronic theory of dia and paramagnetism. Analyze the chemical and heating effect of current, AC &DC
B.ScI S	em-II	
PH-201	Mechanics	 After successful completion of the course, Students will be able to- Understand the application of both translational and rotational dynamics motions. Write the expression for the moment of inertia about the given axis of symmetry for different uniform mass distributions. Understand the concept of MOI by application of flywheel. Know and understand the principles and basic terms related to elasticity through the study of Young Modulus and modulus of rigidity. Learn about Kinetic interpretation of state and Brownian motion. Learn and explain the basic aspects of kinetic theory of gases, Maxwell-Boltzman distribution law, mean free path of molecular collisions, viscosity, thermal conductivity and diffusion.

PH-202	Electronics Devices	 learn about semiconductor physics of the intrinsic, p and n materials Understanding the characteristics of the p-n junction, the diode and some special function diodes and these diodes' application in electronic circuits know about Amplifiers, Classification of amplifiers, common base and common emitter amplifiers, coupling of amplifiers Learn about (RC) coupled amplifier, Feedback in amplifiers, advantages of negative feedback, emitter follower, distortion in amplifiers. Know about Oscillators , classification of oscillators & Tuned collector common emitter oscillator, Hartley oscillator
B.ScII	Sem-III	1
PH-301 PH-302	Computer Programming & Thermodynam ics Waves and Optics I	 After successful completion of the course, Students will be able to- Know and understand the Computer Organization, Binary Representation, Algorithm development, Flowchart, Programming in Fortran. Create algorithms, flowcharts and programs in FORTRAN for any given problem. Learn and understand the Thermodynamics system and laws of thermodynamics, Carnot cycle, Carnot theorem, Kelvin scale, Joule Thomson Effect, Entropy and Liquefication of gases. Learn about Thermodynamical potentials, Maxwell's thermodynamic relations their physical interpretations. Introduce Young's double slit experiment & clearly understand Learn about Thin film, Plane parallel film, production of colours in thin films, classification of fringes in films. Introduce Huygen's-Fresnel's theory, Fresnel's assumptions, & half- period zones clearly understand Know about diffraction due to a narrow slit and diffraction due to a narrow wire
		• Learn about resolving power of telescope and a grating difference between prism and grating spectra.
B.ScII	Sem-IV	1
PH-401	Statistical	After successful completion of the course, Students will be able to-
	Physics	 Understand and explain the concepts of microstate, macrostate, thermodynamic probability, the studies of particles with their distinguishably or indistinguishably nature and conditions which lead to the three different distribution laws e.g. Maxwell Boltzmann distribution, Bose-Einstein distribution and Fermi-Dirac distribution laws of particles. Learn the basic Postulates of statistical physics, Phase space, Division of Phase space into cells and be able to derive the

PH-402	Waves and Optics II	 expression for average speed, r.m.s. speed, average velocity, r. m. s. velocity for Maxwellian distribution. Derive Bose-Einstein & Fermi-Dirac statistics and be able to differentiate between classical statistical mechanics and quantum statistical mechanics. Learn and understand the different laws and theories of specific heat of solids and their significance. Learn about polarisation by reflection & scattering, Malus Law, Huygen's wave theory. Understand analysis of polarized Light & Nicol prism, Quarter wave
		 Introduce the Fourier series, Fourier coefficients, odd functions, even functions, Fourier theorem Learn abou t Fourier transforms and its properties Intoduce the optics fiber & its type, Normalized frequency, Pulse
		dispersion, Attenuation, Applications, Fiber optic Communication
B.ScIII	Sem-V	
PH-501	Quantum and Laser Physics	 After successful completion of the course, Students will be able to- Know and understand the difference between classical and Quantum Physics, Photoelectric Effect, Compton Effect, De-Broglie Hypothesis, Uncertainty Principle, Schrodinger wave equation. Apply and Solve Schrodinger equation for ground state energy and wave functions of various simple quantum mechanical one dimensional and three dimensional potentials. Familiar with optical phenomena and different concepts related to laser physics, Understand and explain the basic principles of working of LASER. Know and understand the working of He-Ne Laser, Ruby Laser, Semiconductor Laser, understand and appreciate the applications of Lasers in developing LED, Holography, in materials processing, in Medicine, Industry and Military.
PH-502	Nuclear Physics	 Learn about concepts of nuclear physics and nuclear energies and importance of their use for mankind. Understand the relationship between particles & atom, as well as their creation & decay. Relate the structure of atoms & subatomic particles. Understand nuclear composition and elementary particles, charge symmetry and independence, spin dependency and nuclear force Analyze the ideas of basics of nucleus and their energy, nuclear fission and fusion. Distinguish between types of nuclear models. Understand basic principal and classification of reactors.
B.ScIII	Sem-VI	

PH_601	Solid State	After successful completion of the course Students will be able to-
111-001	Physics	 Know about crystalline and amorphous substances, lattice, unit cell, primitive cell, miller indices, Bravais lattices in two & three dimensions and crystal structures of Zinc Sulphide, Sodium Chloride and Diamond. Understand and learn X-ray diffraction, Bragg's Law and experimental X-ray diffraction methods and about the reciprocal lattice to a simple cubic lattice, b.c.c. and f.c.c. lattice. Understand the basic idea about superconductors, their classifications and practical applications. Know the basics of nanotechnology and appreciate the role of nanotechnology in different fields such as automobile, electronics, nano-biotechnology, materials, medicine
PH-602	Atomic and Molecular Spectroscopy	 Spectroscopic studies were central to the development of Quantum mechanics and study of atoms and molecules. Learn about vector atom model , salient feature of vector atom model , spin orbital interaction energy. Understand the fine structure of alkali spectra & coupling in case a more than one valence electron atom . Learn about Lermor's theorem , Pauli Exclusion Principal ,symmetric & anti- symmetric , wave function. Learn about ,infra red rotational & vibrational spectra and their energy level , Raman effect & its application & checking of assignment .

Chemistry				
Paper Code	Paper Name	Outcome		
B.Sc-I S	B.Sc-I Sem I			
CH-101	Inorganic Chemistry	 Understand atomic structure and write quantum numbers Draw shapes of different orbitals & energy level diagrams Compare reactivities of various elements on the basis of periodic properties Learn different types of bonds & hybridisations Learn various bonding theories Understand ionic bond & lattice energy Understand the concept of polarizability 		
CH-102	Physical Chemistry	 Understand various state of matter . Deep study of liquid ,gas solid state . Learn various method for their determination . Compare liquid crystals of liquid and solid . Learn the polarimeter for determination of optical rotation. 		

CH-103	Organic Chemistry	 Name various alkanes Understand various basic concepts of organic chemistry Compare reactivities of various reaction intermediate Learn method of preparation & properties of alkane & cycloalkanes Learn various types of isomerism Differentiate among different isomers Assign configuration to optical & geometrical isomers
B.ScI S	Sem-II	
CH-104	Inorganic Chemistry	 Define & understand hydrogen bonding Understand various basic concepts of s&p block elements Compare reactivities of various elements of s & p block elements Learn method of preparation & properties of noble gas elements Learn various concepts of carbon family Learn various concepts of nitrogen family Learn various concepts of oxygen family Know interhalogen compounds & their properties Differentiate among different s and p block elements Compare alkali and alkaline earth metals
CH-105	Physical Chemistry	 Learn the reactions and its rate . Study various laws of electrochemistry Know about ph its values ,buffer solution which help in practical work . Study of electrolytes and conductance which also help in handling of conductometer .
CH-106	Organic Chemistry	 Name various alkenes, alkynes & alkyl halides Understand various basic concepts of mechanisms Compare reactivities of various compounds and explain the reason Learn method of preparation & properties of alkenes, alkynes & alkyl, aryl halides Learn various types of dienes and alkyl halides Differentiate among different alkyl halides Understand effects of various factors on reaction mechanism
B.ScII	Sem-III	
CH-201	Inorganic Chemistry	 Learn about the chemistry of d-block elements. Know about the various transition series and their compounds. Study about coordination compounds which will help them further in chemicals industries. Study about stereochemistry and isomerism in coordination compounds. Learn about various non-aqueous solvents.

CH-202	Physical	• Thermodynamics terms ; systems and surroundings .
	Chemistry	• Laws of thermodynamics.
	-	• Learn the conditions of temperature , pressure , heat .
		• Understand about the distribution law.
		• Determination of degree of hydrolysis.
CH-203	Organic	• Name various alcohols, phenols, ethers & acid and their derivatives
	Chemistry	• Understand various basic concepts of mechanisms
	-	• Compare reactivities of various compounds and explain the reason
		• Learn method of preparation & properties of alcohols, phenols, ethers & acid
		• Learn the basic principle of UV spectroscopy
		• Differentiate among different type of shifts in UV spectroscopy
		• Understand effects of various factors on absorption maxima
		Understands Woodward Fischer Rules
		• calculate absorption maxima for different compounds
B.ScII	Sem-IV	
CH-204	Inorganic	• Learn about chemistry of lanthanides.
	Chemistry	Know about chemistry of actinoids.
		• Study of transuranic elements which will help in scientific work.
		• Learn about theory of qualitative and quantitative analysis.
		Study about detection of radicals.
CH-205	Physical	• Learn about engine its efficiency .
	Chemistry	• Learn about carnot cycle.
		• Clear the concept of entropy.
		 Importance of thermodynamics laws for us.
		• . Study of cells hoe cells work .
		• Understand how the batteries work by the study of electrochemistry.
		Study of electrodes and its working
CH-206	Organic	 Name various amines, aldehydes & ketones
	chemistry	 Understand various basic concepts of mechanisms
		 Compare reactivities of various compounds and explain the reason
		• Learn method of preparation of amines, diazonium salts, aldehydes &
		ketones
		• Learn properties of amines, diazonium salts, aldehydes & ketones
		• Learn the basic principle of IR spectroscopy
		• Differentiate among different type of vibrations in IR spectroscopy
		• Understand effects of various factors on wave number
		Understands selection rules
		• Identify given functional group on basis of IR
B Sc -III	Sem-V	
D.DIII	Jun- V	

CH-301	Inorganic Chemistry	 Learn about metal-ligand bonding in transition metal complexes. Know about thermodynamic and kinetic aspects of metal complexes. Study about magnetic properties of transition metal complexes. Learn about electronic spectra of transition metal complexes. Study about an estimate species.
		• Study about spectrochemical series.
CH-302	Physical Chemistry	 Know the importance of quantum mechanics it is an important tool to understand at the theoretical level the electronic structure of chemical compounds . Difference between classical mechanics and quantum mechanics . Study of wave nature Learn about electromagnetic spectrum . Study of paramagnetic ,diamagnetic behaviour of substances . Study of spectroscopy which has an importance in many industries of detection . Study of different energy levels in vibrational spectrum and rotational spectrum .
		• Learn roman anastrum, polorizability
GH 202		Learn raman spectrum polarizability.
CH-303	Organic Chemistry	 Name various Organometallic compounds Understand various methods of preparation, properties & concepts of mechanisms O.M . Compare reactivities of various organometallic compounds and explain the reason Learn name & classification of carbohydrates Learn & understand structure of glucose & fructose Learn & understand various interconversions and mechanisms of carbohydrates Differentiate among disaccharides and polysaccharides Understand the principle of NMR spectroscopy Understand factors affecting chemical shift various scales & spin spin
		• Understand factors affecting chemical shift, various scales & spin spin
		splitting
		Understand various applications of NMR spectroscopy
B.ScIII	Sem-VI	
CH-304	Inorganic Chemistry	 Learn about organometallic chemistry. Study about metal carbonyls which will help in pharmaceuticals. Know about acids and bases concept. Study about bioinorganic chemistry. Learn about silicones and phosphazones.
CH-305	Physical Chemistry	 Study electronic spectrum . Concept of bonding and non bonding . Learn molecular orbitals . Laws of photochemistry . Difference between thermal and photochemical reactions .

		• Learn about fluorescence, phosphorescence, photosentitized.
CH-306	Organic Chemistry	 Name & learn various addition and condensation polymers Understand various basic concepts of mechanisms of polymers Compare reactivities, aromaticity and basicity of various heterocycles Learn method of preparation of various heterocycles Learn properties of heterocycles & orientation of mechanism Learn & analyze the synthetic applications of enolates Know & learn various types of amino acids and peptides Understand analysis of peptides Understands and write classical and Merrifield synthesis of peptides Learns various classes of proteins & understand their structures

Mathematics

Paper Code	Paper Name	Outcome
BSc./B.A. S	Sem-1	
BM-111	Algebra	Use of algebraic methods help students to solve a variety of problems. It helps them to recognize consistent and inconsistent system of linear equations by the row echelon form of the augemented matrix, using rank. Through this course they can find eigen values and corresponding eigen vectors for a square matrix.
BM-112	Calculus	Calculus is the study of how things change. Students can understand modeling systems in which there is change and it also provides a way to deduce the predictions of such models. Students can solve various mathematical problem, where there is change. It also provides a way to the students to construct relatively simple quantitative models of change, and to deduce their consequences.
BM-113	Solid Geometry	Through this subject, students gain complete knowledge of 3- dimensional figures like sphere, cone, cylinder, ellipsoid, paraboloid etc. It provides a wat to find out equations of tangent plane, polar plane, normal plane, radical plane. Students come to know about different terms clearly such as pole, polar, confocal conics etc.
BSc./B.A. S	Sem-II	
BM-121	Number theory and trigonometry	Students find this subject interesting as it helps them to learn some important results in the theory of numbers including the prime number

		theorem, Chinese remainder theorem, Wilson's theorem and their
		consequences and this also makes them to get familiar with modular
		arithmetic.
BM-122	Ordinary	This course will enable the students to learn various techniques of
	differential	getting exact solutions of first order differential equations and linear
	equations	differential equations of higher order, to know Picard's method of
		obtaining successive approximations of solutions, formulate
		mathematical models in the form of ordinary differential equations to
DM 122	Vactor Calculus	Students through this subject learn to visualize and manipulate
DIVI-123	vector Calculus	Students through this subject learn to visualize and manipulate
		multivariable and vector valued functions presented in graphical,
		numeric, and symbolic form. They also learn to graph, differentiate,
		integrate, and solve applied problems involving parametric equations
		and vector-valued functions.
BSc./B.A. S	Sem-III	
BM-231	Advance	The study of advance calculus enables to understand theoretical and
	Calculus	geometrical concepts of Rolle's theorem, mean value theorem and
		various indeterminate forms. It also provides knowledge of concepts of
		limit and continuity, partial derivatives of functions of two or more
		variables and problems based on maxima minima. This course also
DM 222	De stiel	Includes study of curves in space, concepts of surface and envelops etc.
BM-232	Partial	differential equations with their physical significance. It provides
	Differential	methodologies to solve linear and non linear partial differential
	Equations	equations of first and second order. Applications like solutions of heat
		wave and Laplace equations are also explained.
BM-233	Statics	This course provides a base for the applied mathematics which deals
		with study of composition and resolution of forces, their moments and
		couples. It also enables the understanding of analytic conditions of
		equilibrium of coplanar forces, centre of gravity and concept of virtual
		work. This paper also explains the mathematics of wrenches along with
		stable and unstable equilibrium.
BSc./B.A. S	Sem-IV	
BM-241	Sequence and	This course builds a foundation in understanding of sequences and
	Series	series. It focuses on developing skill of computation with real sequence
		and series. It covers study of infinite, bounded, monotonic and
		oscillating sequences, concept of convergence and divergence, sequence
		of partial sum for an infinite series, various tests such as ratio test, root
		series.
BM-242	Special Functions	This course includes study of Bessel's, Legendre's and Hermite's
	and integral	differential equations and understanding recurrences relations of their
	transformations	generating functions. It also provides the study of two important tools-

		Fourier and Laplace transformations and their applications in solving various differential equations.
BM-243	Programming in C and Numerical Methods	Through this subject, student will be able to learn basics of C language including various input output functions, various loops, conditional statements and arrays. Programs are based on various numerical methods which include the study of solution of linear equation, interpolation and extrapolation, integrals and differential equations using various numerical techniques. This program helps in solving many practical problems where analytical solution does not exist.
BSc./B.A. S	Sem-V	
BM-351	Real Analysis	Real Analysis is the branch of mathematical analysis that studies the behavior of real numbers, sequences and series of real numbers, and real functions. Some particular properties of real-valued sequences and functions that real analysis studies include convergence, limits, continuity, smoothness, differentiability an d integrability.
BM-352	Groups and Rings	The concept of a group is central to abstract algebra: other well-known algebraic structures, such as rings, fields, and vector spaces, can all be seen as groups endowed with additional operations and axioms. Thus group theory and the closely related representation theory have many important applications in physics, chemistry, and materials science.
BM-353	Numerical	Numerical Analysis is the area of mathematics and computer science
	Analysis	that creates, analyzes, and implements algorithms for solving numerically the problems of continuous mathematics. Such problems originate generally from real-world applications of algebra, geometry, and calculus, and they involve variables which vary continuously. These problems occur throughout the natural sciences, social sciences, medicine, engineering, and business. Numerical methods are used for deeper understanding to predict the anomalies which are not possible in the analytical methods because the analytical method can solve only two or three unknown variables but numerical methods can do much more than it very accurately.
BSc./B.A. S	Sem-VI.	
BM-361	Real and Complex Analysis	Real and Complex Analysis an introduction to the theory of holomorphic functions. Multivalued functions and branches have been dealt carefully with the application of the machinery of complex measures and power series. Intended for undergraduate students of mathematics and engineering, it covers the essential analysis that is needed for the study of functional analysis, developing the concepts rigorously with sufficient detail and with minimum prior knowledge of the fundamentals of advanced calculus required.

BM-362	Linear Algebra	Linear algebra is a branch of mathematics, but the truth of it is that linear algebra is the mathematics of data. Matrices and vectors are the language of data. Linear algebra is about linear combinations. That is, using arithmetic on columns of numbers called vectors and arrays of numbers called matrices, to create new columns and arrays of numbers. Linear algebra is the study of lines and planes, vector spaces and mappings that are required for linear transforms.
BM-363	Dynamics	Dynamics is the branch of classical mechanics that is concerned with the study of forces and their effects on motion . It allows one to predict the motion of an object or objects, under the influence of different forces, such as gravity or a spring. It can be used to predict the motion of planets in the solar system or the time it takes for a car to brake to a full stop. It is widely used for forecasting and predicting in the field of machine learning.
Paper	Paper	Outcome
Code	Name	
M.ScMat	hematics Sem-I	
MM-401	Advance Abstract Algebra-I	The concept of a group is surely one of the central ideas of mathematics. The main aim of this course is to introduce Sylow theory and some of its applications to groups of smaller orders. An attempt has been made in this course to strike a balance between the different branches of group theory, abelian groups, nilpotent groups, finite groups , infinite groups and to stress the utility of the subject. A study of Modules, submodules, quotient modules, finitely generated modules etc. is also promised in this course. Hilbert basis theorem and Wedderburn -Artin theorem are the heighlights of this course.
MM-402	Real Analysis-I	Through this subject student studies concepts such as Riemann Stieltjes integral, uniform convergence of sequences and series of functions, and functions of several variables.
MM-403	Topology	Topology lets us talk about the notion of closeness (i.e, neighbourhoods), which in turn allows us to talk about things such as continuity, convergence, compactness and connectedness without the notion of a distance. So, topology generalizes fundamental concepts of analysis/calculus. Some of the main topics taught in this course include Product and Quotient spaces, Embedding and Metrization, Compactness, Continuity and Filters.
MM-404	Complex Analysis-I	One objective of this course is to develop the parts of the theory that are prominent in applications of the complex numbers. Other objective is to furnish an introduction to applications of residues and conformal mapping. With regard to residues, special emphasis is given to their use in evaluating real improper integrals, finding inverse Laplace

		transforms, and locating zeros of functions. Conformal mapping find its
		use in solving boundary value problems that arise in studies of heat
		conduction, fluid flow and elastodynamics.
MM-405	Differential	This course has been framed to learn the theory of ordinary differential
	Equations-I	equations. Existence and uniqueness theory of solution of an ordinary
	1	differential equation and of an initial value problem is to be learnt
		during the course. Theory of homogeneous and non-homogeneous linear
		differential equations of higher order. Adjoint equations and Wronskian
		theory are also learnt during the course. Students will also learn second
		order ordinary differential equations and Sturm theory, Oscillation
		theory, boundary value problems and Greens functions in the context of
		such differential equations. On completion of the course, a student will
		be able to understand the theory of ordinary differential equations of
		2nd and higher order and to know the techniques of solving them.
MM-406	Practical-I	Students will learn simple application of C programming in maths. The
	(Programming in	objective of this course is to acquaint the students with the practical use
	C)	of ANSI-C, for solving some problems of social and mathematical kind.
	- /	Also some problem solving techniques based on papers MM- 401 to
		MM- 405 will be taught.
M.ScMat	hematics Sem-II	
MM-407	Advance Abstract	As suggested by the name of the course itself, some of the advanced
	Algebra-II	topics of abstract algebra will be taught to the students in this course
	riigeoru ii	including field extensions, finite fields, normal extensions, finite normal
		extensions as splitting fields. A study of Galois extensions, Galois
		groups of polynomials, Galois radical extensions shall also be made.
		Similar linear transformations, Nilpotent transformations and related
		topics are also included in the course.
MM-408	Real Analysis-II	Through this subject student studies concepts such as Lebesgue outer
		measure, outer measure, Lebesgue integral, Lebegues measurable
		functions and their properties.
MM-409	Computer	This course introduces beginning students to the basics of Fortran 90/95
	programming	programming and brief history of Fortran. The course enables the
	(Fortran)	students to write any source program to compute the numerical
		solutions of the mathematics problems, which arise in the research
		studies with applications to engineering, physical, biological or social
		sciences.
MM-410	Complex	The objective of this course is to familiarize the students withsome
	Analysis-II	advanced topics in complex analysis. Starting from the compactness and
		convergence in the space of analytic functions we move on to establish
		the Runge's theorem and Mittag-Leffler's theorem followed by analytic
		continuation and 15 Riemann surfaces. Entire functions and the range of
		an analytic function are the concluding topics of this advance course in
		complex analysis
MM-411	Differential	This course has been designed to understand system of differential
	Equations-II	equations including linear and nonlinear systems. Initially, linear

		differential systems (homogeneous and non-homogeneous) and the existence and uniqueness theory for such systems are to be learnt and thereafter the theory is extended to system of n differential equations including non-linear systems. Characteristics and stability of critical points of non-linear systems and stability analysis of such non-linear systems would be studied during the course. After successful completion of this course, a student would be able to understand the theory of linear and non-linear differential systems and will also be able to do practical problems related to solutions of linear systems and related to critical points and stability of solutions of non-linear systems.
MM-412	Practical-II (Fortran)	This course aims to train the students for practical implementations of all the features of FORTRAN 90, 95 programming, which they study as a theory course MM-409, i.e., Computer Programming. Also some problem solving techniques based on papers MM-407 to MM-411 will be taught.
M.ScMat	hematics Sem-III	
MM-501	Functional Analysis	Through this course work students gain the knowledge of central concepts including Hahn Banach theorem, open mapping and closed graph theorems, dual spaces, self joint operators
MM-502	Analytical Mechanics and Calculus of Variation	Through this subject students solve the problems which are related to small changes in functions, to find maxima and minima of functional and analytical mechanics allows students to solve numerous mechanical problems using generalized coordinates and equation of motions
MM-503 (OPT-1)	Elasticity	This course aims to provide the knowledge of tensor algebra with the study of different types of tensors. It aims to provide theoretical detailed study of strain and stress. Analysis of stress and strain is discussed including Mohr's circle, generalized hook's law etc. Equilibrium and dynamic equations of an isotropic elastic body is explained with examples.
MM-504 (OPT-1)	Fluid Mechanics- I	Fluid mechanics is the study of fluid behavior (liquids, gases, blood, and plasmas) at rest and in motion. Fluid mechanics has a wide range of applications in mechanical and chemical engineering, in biological systems, and in astrophysics. In this chapter fluid mechanics and its application in biological systems are presented and discussed. First the fluid mechanics governing equations and blood properties are explained. In the following section different models for blood as a non-Newtonian fluid are presented
MM-505 (OPT-1)	Integral Equations	In mathematics, integral equations are equations in which an unknown function appears under an integral sign. There is a close connection between differential and integral equations, and some problems may be formulated either way. See, for example, Green's function, Fredholm theory, and Maxwell's equations.
MM-506	Practical-III	Students learn basics of programming in FORTRAN

	(FORTRAN)	language. This course focuses on applications of string operations, logical operations, Modules, subroutine, non conformable array etc.
M.ScMat	hematics Sem-IV	
MM-507	General Measure and Integration Theory	The theory of Measures and Integration illuminates the fundamental ideas of the subject-fascinating in their own right-for both students and researchers, providing a useful theoretical background as well as a solid foundation for further inquiry. Discussions of extensions, the structure of Borel and Lebesgue sets, set-theoretic considerations, the riesz representation theorem, and the Hardy-Littlewood theorem etc.
MM-508	Partial Differential Equations	In this course students calculate the fundamental solutions of laplace equations, wave equations, heat equations and uniqueness of their solutions by using appropriate methods of partial differential equations
MM-509 (OPT-1)	Mechanics of Solids	This paper provides an advance version of stress and strain theory. It discusses the concepts of biharmonic equations, boundary value problem in plane elasticity, propagation, dilation and distortion of waves. It also focuses on the study of elasticity in beams, torsion in bars along with the variational methods for energy distribution.
MM-510 (OPT-1)	Fluid Mechanics- II	In this section of fluid mechanics we will study about irrotational motion in two dimensions. Complex velocity potential. Sources, Sinks, doublets and their images. Thomson circle theorem. Two-dimensional irrotational motion produced by motion of circular cylinder etc.
MM-511 (OPT-1)	Mathematical Aspects of Seismology	This subject relates the students with the study of natural phenomenas like earthquakes, volcanic eruptions
MM-512	Practical-IV (MATLAB)	This course gives an opportunity to the students to learn and practice one of the important purely mathematics based programming language. Here students are supposed to learn the basics and apply them in programs like solution of simultaneous linear equations, inverse of a matrix, solutions of differential equations etc.

Botany

B.Sc-I Sem I			
Paper Code	Paper Name	Outcome	
Paper-1	Diversity	1. Learn about Algae, its Structure andLlife Cycle	
	of	2. Know about Fungi ,and its Economic Importance	
	Microbes	3. Learn about Bacteria and its role in daily life	
		ow about Virus in detail	
Paper-2	Cell	1. Learn about detailed Structure and Functions of Cell Wall and P	lasma membrane
	Biology	2. Know about Ultrasturcture of Cell Organelles	
		3. Learn about Mitosis and Meiosis	
		4. Know about Chromosomes in detailed	

B.Sc.-I Sem-II

Paper-1	Diversity of Archegoniate	 Know about various Bryophytes, its habitat and its Structure and Reproduction Learn about Various Pteridophytes , their habitat , structure and reproduction Read Fossil Plants also
Paper-2	Genetics	 Know about Genetic materials and Genetic Inheritance Learn about Genetic Variations, Gene Expressions

B.Sc.-II Sem-III

Paper-1	Biology and Diversity of Seeds Plants-1	 Gain knowledge about Gymnosperms diversity and its characters Learn about Geological Time Scale Know about Importance of Fossils and Reconstruction of various Fossil plants Learn details of various Gymnosperms
Paper-2	Plant Anataomy	 Gain knowledge about Tissues and Diversity in Plant forms Learn about Leaf structure in detail Know about Secondary Growth in various Roots and Stems

B.Sc.-II Sem-IV

Paper-1	Biology and Diversity of Seeds Plants-2	 Know about taxonomy, its Components and role 2Llearns about identifications Keys and Taxonomic Ranks Learn about Floral Structures of Angiospermic families and its Economic uses
Paper-2	Plant Embryology	 Know about Flower and its Various Floral parts Learns about detail Structure of Micro and Mega sporangium Learn about Dispersal Mechanism in Fruit and Seed

B.Sc.-III Sem-V

Paper-	Plant	1.Know about various plant Physiological Processes like Imbibtion
1	Physiology	,Osmosis etc.
		2.Learn about mineral Nutrition and Transpiration
		3.Photosynthesis detailed process
		4.Detailed Process of Respiration
Paper-	Ecology	1. know about Ecology
2		2. Various Environmental factors
		3. Detail account of Global Warming

B.Sc.-III Sem-VI

Paper-1	Biochemistry and Plant Biotechnology	 Learn about different kinds of Enzymes and its role in our daily life Detail account of Various Plant hormones Lipid and Nitrogen Metabolism Role of Genetic Engineering and Biotechnology in our daily life .
Paper- 2	Economic Botany	 1.Learn about Cereal ,Pulses ,Vegetables and their Economic Uses 2.Know about idea of Cultivation & Economic uses of Spices ,Medicinal Plants & Beverages 3.Know about General Account of Timber Yielding Plants

Zoology			
Paper Code	Paper Name	Outcome	

B.Sc-I Sem I

1	Diversity from Protozoa to Porifera and cell biology-I)	 Biodiversity and economic importnace of poriferans. Ultrastructure of cell organelles
Paper-2	life and diversity from Coelentrata to Helminthes and cell biology-II)	 Biodiversity and economic importance of coelentrates and helminthes. Infection and disease caused by helminthes. Cell division(mitosis and meiosis), structure and functionsof nucleus and chromosomes and cellular basis of immunity

B.Sc.-I Sem-II

Paper- 1	life and diversity from Annelida to	1. Biodiversity and economic importance of annelids and vermicomposting.
	Hemichordata and genetics)	2. Largest taxon of Metazoa and their vastness, diversity of insects and their extremely successful existence upon this earth.
		3. Genes, sex determination systems, heredity, ene
		interactions, cytoplasmic inheritence
Paper-	Life and	1. Provide knowledge about Mollusc, Echinoderms,
2	diversity of	Hemichordates-their diversity and economic importance.
	Mollusc to	2. About multiple allellism, chromosome and
	Hemichordate	abnormalities, function of genetic material, genetic
	and Genetics-	counselling, prenatal diagnosis, DNA fingerprinting,
	II)	transgenic animals

B.Sc.-II Sem-III

Paper-1	life and diversity of Chordates-I and Mammalian physiology-I)	 Origin and evolutionary tree of chordates and lower chordates. Migration in fishes, their scales, fins and how do they care about their young ones.
Paper-2	Life and diversity of chordates- IIand Mammalian physiology- II)	 Life and diversity from chordates and their economic importance. Nutritional and excretional physiology. Different biophysical processes in body bones and muscke physiology.

B.Sc.-II Sem-IV

Paper-	life and	1. Amphibia, Reptilia, Aves and Mammalia.
1	diversity of	2. Parental care in animals.
	Chordates –II	3. Snakes poisonous and non poisonous) and their poison
	and	apparatus.
	Mammalian	4. Principle of aerodynamics of bird flight ,flight adaptation&
	physiology)	migration in birds.
		Dentition in mammals
Paper-	Mammalian	1. Know about mechanism of circulation, respiration excretion,
2	physiology-II	neural integration, chemical integration and reproduction.

B.Sc.-III Sem-V

Paper- 1	Environmental biology	1.Students know about practical application of ecology in agriculture, biological surveys, forestry.
		2. This environmental biology will help in conservation of natural
		resouces.
		3. Restoration of natural environment to ensure human survival,
		protection of animal and plant species.
		4. Conservation of biodiversity
Paper-	Evolution and	1. Students learn about origin of life, earthand planets, various
2	Developmntal	theories for evoltuon an dits types, evolution of horse and
	Biology	mammals.
		2. Historical prespectives & scope of developmental biology.
		3. From the process of gastrulation to zygote formation.
		4. Concept of regeneration, organisers, diffrentiation, competence
		etc

B.Sc.-III Sem-VI

Paper-	aquaculture and	1.Students will know about world and indian fisheries, fishing crafts
1	pest	and gears.
	management-I	2. Life Cycles of insect pests of sugracane, cotton, wheat, padddy,
		vegetables and their control methods
Paper-	Aquaculture and	1. Knowledge about, natural resources, its assessment, collection&
2	Pest	hatchery production, souces of food, feed composition, culturing and
	Management-II	its technologies.
		2. Pest of stored grains, their systemic positions, habits and nature of

damage caused, their life cycle and control. 3. Integrated pest management (biological, chemical)	
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Commerce

Paper	Paper	Outcome
Code	Name	
B.Com Sen	n-1(General)	
BC 101	Financial Accounting I	The students will able to understand about book-keeping, accounting and their principles- concepts and conventions. This will help in preparing journal, ledger and trail balance. They will also get to know how to rectify the errors. They learn about capital and revenue. The students prepare depreciation account and also get to know about provisions and reserves. They learn how to prepare final accounts, accounts of Non-profit Organizations, consignment accounts.
BC-102	Micro Economics	Students learn how we manage our limited resources to get maximum satisfaction. Under this students also learn about market types
BC 103	Principles of Business Management	The students will able to understand about commerce, management - concept, approaches, functions. They will learn about planning, organizing- delegation and decentralization, staffing, directing, controlling.
BC-104	Computer Application in Business	 Helps to understand basic of computer system including hardware's and software's. Students got familiar with internal processing of CPU and pars of CPU. Course introduces the concept of programming languages and available open source software's. Basics of networking allows students to get knowledge and concept of network connectivity. Hands on practice on MS-word, Excel and PowerPoint builds student confidence in report writing and accounts maintaining.
BC 105	Business Mathematics I	The students will able to understand about Logarithms, Anti-logarithms, Sequences and series, Differentiation, Maxima and Minima of functions, Matrices and Determinants, compound Interest and Annuities.
BC 106	Business Communication	The students will able to learn about Business communication- models and theories. Along with this, Corporate communication- audience analysis, communication network and barriers, effective presentation skills, practices in business communication. The students also able to know about Self development and communication, Practices of effective learning. This helps in increasing their interviewing skills, how to write business letters and emails.
B.Com Sen	n-1(Computer Appl	lication)
BC 101	Financial Accounting I	The students will able to understand about book-keeping, accounting and their principles- concepts and conventions. This will help in preparing journal, ledger and trail balance. They will also get to know how to rectify the errors. They learn about capital and revenue. The students prepare depreciation account and also get to know about provisions and reserves. They learn how to prepare final accounts, accounts of Non-profit Organizations, consignment accounts.

BC 103	Principles of	The students will able to understand about commerce, management - concept,
	Business	approaches, functions. They will learn about planning, organizing- delegation
	Management	and decentralization, staffing, directing, controlling.
	_	
BC 106	Business	The students will able to learn about Business communication- models and
	Communication	theories. Along with this Corporate communication- audience analysis,
		communication network and barriers, effective presentation skills, practices in
		business communication. The students also able to know about Self development
		and communication, Practices of effective learning. This helps in increasing their
		interviewing skills, how to write business letters and emails.

B.Com Sem-II (General)

BC 201	Financial	The students will able to understand how to prepare branch accounts, partnership
	Accounting II	accounts. Along with this they also get to know about reconstitution of
		partnership firm, dissolution of partnership. This subject helps students to know
		about hire purchase and installment purchase system.
BC-202	Macro	In this paper students learn how we measure our national income. In this paper
	Economics	we study about economy as a whole.
BC 203	Fundamentals of	The students will able to understand about Marketing- concepts and principles,
	Marketing	Marketing management, Marketing mix, Analysis of marketing environment,
	8	Marketing segmentation. Along with this students will learn about consumer
		behaviour and Product, Pricing, Promotion and Distribution channel.
BC 204	E-commerce	The students will able to learn about Internet- application and uses, Internet
		services, Information Technology and Business- Transaction Processing System,
		Management Information System. Along with this, students will learn about E-
		commerce, their Models-B2B, B2C, C2C and also important topics like
		Electronic Data Interchange, M-commerce, E-governance.
BC 205	Business	The students will able to understand about Permutations and Combinations,
	Mathematics II	Binomial Theorem, Linear inequalities, Linear programming, Data
		representation and interpretation.
BC 206	Business	The students will able to know about Haryana economy, Haryana agriculture,
	Environment of	Agriculture credit. The students will also understand about Micro, small &
	Haryana	medium enterprises in haryana. They also understand about role of HSIIDC,
		HFC, HAFED, HKVIB and also Haryana budget.
B.Com Ser	n-II (Computer Ap	plication)
BC 201	Financial	The student will able to understand how to prepare branch accounts, partnership
	Accounting II	accounts. Along with this they also get to know about reconstitution of
		partnership firm, dissolution of partnership. This subject help students to know
		about hire purchase and installment purchase system.

BC 203	Fundamentals of Marketing	The students will able to understand about Marketing- concepts and principles, Marketing management, Marketing mix, Analysis of marketing environment, Marketing segmentation. Along with this students will learn about consumer
		behaviour and Product, Pricing, Promotion and Distribution channel.
BC 204	E-commerce	The students will able to learn about Internet- application and uses, Internet services, Information Technology and Business- Transaction Processing System, Management Information System. Along with this students will learn about E-commerce, their Models-B2B, B2C, C2C and also important topics like Electronic Data Interchange, M-commerce, E-governance.

Subject Outcomes

	Paper Name	Outcome
B.com Sem	1-3-Odd-(General)	
BC-301	Corporate Accounting	After studying this course students will be able to classify different types of sources of finance. They will be able to understand and analyze the financial statements of companies and will be able to interpret the amalgamation and reconstruction of companies.
BC-302	Business Statistics	This course will help in learning different sources of data and methods to collect them. Students will be able to understand the measures of central tendency and can easily apply these in real life. On the other hand, the learning of index numbers and time series will enhance their statistical skills used in research.
BC-303	Business Law-1	This course will help students in learning the contact act, its basis, validity and legality of contract, remedies available in case of breach of contract etc. They will be able to understand the sales of goods act, its legality and different goods covered under this act.
BC-304	Company Law	This course will make students understand about company and its formation. The process of formation of company, including all documents required for formation of company. It will also help them understand the process of issue of shares and debentures and concepts related to them.
BC-305	Indian Financial System	This course covers a lot of things about Indian Financial System. This will make students learn about the financial system of India and its

		components. It will also make them understand about the debt market and different financial institutions of India. And students will be able to understand the banking process and different components of banks.
BC-306	Rural Marketing	This course id basically about the rural marketing and students will be able to understand the process and different approach to do rural marketing. It's also talks about the product planning, distribution of product and concepts of E-commerce in rural area.

B.com Sem-3-Odd-(Computer Application)

BC-301	Corporate Accounting	After studying this course students will be able to classify different types of sources of finance. They will be able to understand and analyze the financial statements of companies and will be able to interpret the amalgamation and reconstruction of companies.
BC-302	Business Statistics	This course will help in learning different sources of data and methods to collect them. Students will be able to understand the measures of central tendency and can easily apply these in real life. On the other hand, the learning of index numbers and time series will enhance their statistical skills used in research.
BC-303	Business Law-1	This course will help students in learning the contact act, its basis, validity and legality of contract, remedies available in case of breach of contract etc. They will be able to understand the sales of goods act, its legality and different goods covered under this act.
BC-304	Company Law	This course will make students understand about company and its formation. The process of formation of company, including all documents required for formation of company. It will also help them understand the process of issue of shares and debentures and concepts related to them.
B.com Sem-4-even-(General)		

BC-401	Corporate Accounting-2	After studying this subject student will be able to do valuation of goodwill. They will be able to understand and analyze the accounts of banking and insurance companies.
BC-402	Business Statistics-2	After studying this subject student will be able to understand the concept of simple correlation and different type of correlation like, multiple & partial and liner and non-liner diagrams. They can also learn about different method of KarlPearsons co-efficient, & spearman's rank correlation. On the other hand, students will be learn about regression

		and probability & probability distribution and different concept of probability distribution like , Binomial, Poisson and normal distribution & their prosperities and parameters.
BC-403	Business Law-2	This course will help the students to understand different acts like, negotiable Act 1881 and Indian partnership act 1932 and limited liabilities partnership act 2008. On the other it also enable the students how to use information act 2008 in current scenario.
BC-404	Company Law - 2	After studying this course students will be able to know about the memberships in companies as well as they can understand the management & administration of companies and duties and limitations & role and appointments, rights and dismissal of general directors, managing directors and manager ,secretary. On the other hand they will be able to know different type of meetings and also about agenda, quorum minutes & proxy. It also helps them to understand the accounts of companies and amalgamation & reconstruction and winding up producers of companies.
BC-405	Computerized Accounting System	This course will help the students to learn different tally programmers like, ERPS, and licensing configuration & tally vault password, ERP9. On the other hand they will be able to learn how to make payroll and basic salary, overtime, gratuity loan ESI, provident fund & pension, and commission at computerized system.
BC-406	Advertising	After studying this subject students will be able to understand the concept of advertising and different aspect of advertising like, communication, advertising mix, & type of advertising and objectives, Dagmar approach and advertising budgets. On the other hand they can learn about creative aspect of advertising and advertising media, advertising agencies and effectiveness of advertising in dynamic environment.
B.com Sem	-4-even-(Compute	r Application)
BC-401	Corporate Accounting-2	After studying this subject student will be able to do valuation of goodwill. They will be able to understand and analyze the accounts of banking and insurance companies.
BC-402	Business Statistics-2	After studying this subject student will be able to understand the concept of simple correlation and different type of correlation like, multiple & partial and liner and non-liner diagrams. They can also learn about different method of KarlPearsons co-efficient, & spearman's rank

				corr and	relation. On the other hand, students will be learn about regr probability & probability distribution and different conce	ession ept of
				prot	pability distribution like, Binomial, Poisson and normal distri	bution
				& th	neir prosperities and parameters.	
]	BC-403	Bu	isiness Law-2	This	s course will help the students to understand different acts like,	
				nege	otiable Act 1881 and Indian partnership act 1932 and limited	
				how	ilities partnership act 2008. On the other it also enable the stude t_{1} to use information act 2008 in current scenario	ents
1	BC-404	Co	mnany Law -	Afte	er studying this course students will be able to know abo	ut the
	De loi	2	inpuny Lut	men	nberships in companies as well as they can understan	id the
				man	agement & administration of companies and duties and limit	tations
				& r	ole and appointments, rights and dismissal of general dire	ectors,
				man	haging directors and manager, secretary. On the other hand the	ey will
					rum minutes & proxy. It also helps them to understand the acc	genua,
				of of	companies and amalgamation & reconstruction and windi	ng up
				proc	lucers of companies.	0 1
	Paper		Paper		Subject Outcome	
	Code		Name			
	B.COM					
	(Gen)Sem 5 TH	-				_
	BC-501		Cost accounting	5	This course will be enable the students to understand the	
					nature and scope & methods and techniques of cost	
					accounting . On other hand, it enables the students to understand the concept & Techniques of inventory control	
					and also lear how to analysis the variance between standing	
					costing and marginal costing.	
	BC-502		Financial		This course will be enable the students to understand the	
			management		nature, scope, objectives and recent developments in	
					financial management as well as about financial planning	
					and capitalization overcapitalization and under-	
					capitalization. On the other hand it also to learn about	
					sources of finance like, short-term, medium term and long	
					term and how to calculate Cost of capital and how to take	
					capital budgeting decision and how to manage working	
	BC-503		GOODS AND		This course will help the students to understand the	
	DC-303		SERVICES TA	x	meaning of gst, and taxable person, registration, procedure	
				<u> </u>	and documents required. Levy and collection of GST. On	
					the other hand it also enable, them to understand time and	
					place of supply of goods and services.	

BC-504	Income-Tax-1	This course will be enable the students to understand the concept of income, tax, person and agricultural income, casual income, previous year, financial year, assessment year, gross total income total income. It also helps them to learn tax management, and tax evasion, avoidance, and tax planning. On the other hand it also make them enable to know the scope of total income, residence and tax liability, income which does not form part of total income and heads of income like, salary, house property; profit and gains from business and profession, & capital gains and other sources like, Clubbing and aggregation of income and provisions regarding set-off and carry forward of losses.
BC-505	Auditing	This course will be enable the students to understand the meaning, objectives and advantages,& types of audit, and internal and external audit & proprietary and efficiency of audit. It also enable them to learn about audit process, audit programme, audit working papers and evidences audit of e- commerce transactions and methods of audit work and routine checking and test checking or internal control and internal checking system. On the other hand it will help them to understand the meaning, objectives and importance of vouching and vouching of cash books and ethics of auditing
BC-506	SUPPLY CHAIN MANAGEMENT	This course will be helpful in learning the students about the concept, scope and importance and approaches to SCM and role of SCM in a firm and economy and SCM and marketing mix & SCM as coordination functions and elements of SCM like transportation and warehousing or channel design and information system in SCM
B.COM(Ge		
n) 6TH		
Sem.		
Paper	Paper	Subject Outcome
Code	Name	
BC-601	Management accounting	This course will help the students to understand the concept, scope, techniques and significance, comparison between financial accounting, cost accounting and management accounting and also to understand the management reporting, need and type of reports and management information system. It also Analysis the financial statement through comparative statements, common size statements, ratio ,liquidity, solvency, profitability and turnover; trend analysis. Cash flow and funds flow statements: need and method of preparing statements. On the other hand it enables the students to understand the concept of hudgetary control.

D.C. CO2		
BC-602	FUNDAMENTAL	This course will help the students to understand the concept of
	SOF INSURANCE	insurance life and general insurance purpose, need and principles of
		insurance and about the social security tool of insurance and
		economic development. On the other hand the concept of fire
		insurance and principles of fire insurance contracts.
BC-603	HUMAN	This course will be helpful for the students to understand the concept
	RESOURCE	of human resource management meaning, nature, history and scope,
	MANAGEMENT	objectives, functions and different between HRM and HRD and
		personal management. It also enable them to learn about human
		resource planning an Job Analysis, and recruitment or selection.
BC-604	INCOME TAX-II	This course will be helpful to learning the students about deductions
		under section 80C to 80U in computing total income and computation
		of total income and tax liability of an individual and H.U.F.
		Computation of total income and tax liability of a Firm and deduction
		of tax at source; advance payment of tax and income tax authorities
		and their powers and also procedure for assessment; different types of
		returns
BC-605	BUSINESS	This course will be helpful to learning the students about the concept
	ENVIRONMENT	components, and importance and scanning of business environment
		and economic systems and economic planning in India. It also make
		them enable to learn about competition Act, and foreign Exchange
		Management Act & foreign exchange market.
BC-606	RETAIL	This course will be helpful to learning the students about concept,
	MANAGEMENT	characteristics and importance and theories of retailing & strategic
		planning in retailing and planning location of retail institution. It also
		enable them to understand the trading area analysis, deciding the most
		desirable type of location and choice of a general location, and
		Organizational structures and store management or trends in retailing
		in India and FDI in retail.

Paper Code	Paper Name	Subject Outcome
M.COM S	em-1	
MC-101	organizational behavior	After studying organizational behavior the student will be able to know the conceptual frame work and development of organizational behaviour. And understand the determinants and theories of personality and apply the understanding of perception and learning in managing people at workplace, understanding of the group dynamics and transactional analysis.

MC-102	Business	After studying Business environment the student will be able to
	environment	understand the role and importance of business environment and
		examine the environmental factors affecting business decisions and
		evaluate the impact of privatization and globalization in the expansion
		of Indian business and critically examine different economic policies
		and their contribution in the success of Indian business and making it
		competitive at global level and also understand regulatory framework of
MC 102		business to make effective decision making
MC-103	Managerial economics	After studying Managerial economics , the student will be able to estimate trends in demand through various forecasting techniques and analyze the cost behavior for production decisions, ,understand types of market conditions and taking decisions accordingly and also study the different business phases such as boom, depression, inflation, etc. for effective decision making
MC-104	company law	After studying company law the student will be able to understand the concept, types and characteristics of companies, and be aware of the objectives and contents of MoA an AoA and know the provisions regarding issue, allotment and transfer of shares and understand the appointment, powers of directors, and the process of amalgamation and winding up of the companies.
MC-105	Accounting for managerial decisions	After completing Accounting for managerial decisions , the student will be able to know the concept and scope of management accounting, define the role of management and designing management information system for business organizations and understand the concept of
		responsibility accounting and measure the performance and enable the students to learn the preparation and application of budgetary statements, standard costing and marginal costing, and prepare the students to apply the recent accounting systems required to meet the challenges of competitive business environment.
MC-106	Marketing management	After studying Marketing management , the student will be able to familiarity with the concepts of marketing and the irrelevance in the
		current scenario and understand the product and pricing decision in a business. And also study developing promotional skills and logistics for efficient and effective connecting with the markets and learning responsible and tech-survey market operations.
M.COM 2	ND SemII	
Paper	Paper	Subject Outcome
Code	Name	Ť

MC-201	Human resource management	After studying Human resource management , the student will be able to understand the concept and functions of HRM in dynamic business environment and understand the inter linkages among the pivotal functions concerning procurement of human resources viz. human resource planning, human resource policy, job analysis, recruitment, selection, induction and placement. Get the knowledge of different aspects concerning maintenance, developments and control of human resources in an organization. And also learn how to deal with emerging issues concerning employee empowerment, quality of work life, job satisfaction and job stress.
MC-202	International business environment	After studying International business environment , the student will be able to understand the importance and scope of international business and examine the differences in environmental factors of various countries and their implications for international business decisions and appreciate the role of international economic institution like WTO, UNCTAD, IMF and World Bank in regulating international business, know the evolution and working of regional economic cooperation such as EU, NAFTA ASEAN, SAFTA in expansion of international business and developments in foreign exchange.
MC-203	Strategic marketing	After studying Strategic marketing , the student will be able to understand the conceptual framework of strategic marketing planning and analyse the business environment for strategic decision making and learn different types of marketing strategic alternatives at various stages of development of a firma and link business strategies with marketing mix and analyze how marketers implement and control marketing strategies.
MC-204	financial Management & policy	After studying the financial Management & policy , the student will be able to know the scope and recent developments in the field of financial management and understand financial forecasting and develop financial plans and ascertain the cost of capital and estimate the working capital requirement for the business. Also learn capital expenditure and risk analysis for better decision making.
MC-205	Corporate accounting	After completing the Corporate accounting , the student will be able to understand the provisions of regulatory bodies relating to issue, forfeiture and valuation of share and presentation of final statements and prepare and present the accounts for restructuring, human resource and lease accounting, develop consolidated financial statements and learn the specific requirements of financial statements

		and harmonization of corporate reports.
MC-206	Business statistics	After completing the Business statistics , the student will be able to apply correlation and multiple regression to know relationship between the variables and be aware of the concepts of index number and their applications and know the components of time series, its models and application, understand the concepts of probability and probability distributions
MC-207	VIVA/VOCE CUM CASE STUDY	Knowledge appraisal of students

Paper	Paper	Outcome	
Code	Name		
M.com 3 rd	Semester		
MC 301	COMPUTER APPLICATIO N IN BUSINESS	After studying this course the students will be able to understand the structure and organization of the computers and will be able to recognize and use the hardware and software of the computers. The students will be able to know the concept of computer network topologies and basic information technology and use of computer in business operations.	
MC 302	ADVANCED FINANCIAL MANAGEMN ET	The students will be able to acquaint them with dividend decision & models. The will be able to know the determinants of capital structure and analysis EBIT. They will know the broad areas and techniques of corporate restructuring and will be able to understand and implement financial restructuring.	
MC304	Financial institution of market	After studying this subject the students will be able to understand the Indian financial system and cc its role in economic development and they will be able to know the role of different types of financial market and their regulatory framework as well as operational and promotional activities of development banks and they will be able to understand about merchant banking and mutual funds	
MC 311	International Marketing	Through this subject the students will be able to identify the opportunities and challenges in international marketing. They will be able to analyze he international marketing environment and strategies for entering international markets. They will know the techniques for controlling international marketing operations.	

MC313	Retail		
	Management	After studying this subject the students will be able to understand the conceptual framework and strategic planning for retailing formats and plan location of retail store. The students will get knowledge of customer service and financial management in retail organizations. After the knowledge of this subject the will able to understand that how we can handle issues concerning information technology, social ethical and legal	
		aspect in retailing.	
MC316	Human	After having the knowledge of this subject the students will be able to understand the conceptual framework of HRD and the role, responsibility and quality of HRD manager. The students will be able to understand a framework of HRD in an organization based on the understanding o theoretical edifice of HRD system, HRD strategies and emerging trends in HRD for ensuring organizational effectiveness. They will be able to understand of learning and knowledge management in developing human resources. They will get knowledge of role analysis, competency mapping and employee socialization.	
	resource Development		
M.com 4 th	semester		
MC 401	IT AND E-		
	COMMERCE	After studying this subject the students will be able to the understand the concept of e commerce, its difference and relationship with traditional commerce and business models of e commerce. The students will be able to know the use of online recourses for marketing, advertising and they will be able to learn the use of cloud computing, ERP and cyber laws and appreciate the security issues in e-commerce and measures to safeguard from them.	
MC 402	CORPORATE TAX PLANNING AND MANAGMEN T	The students will be able to understand the difference between Tax planning, tax Evasion and Tax avoidance. They will be able to learn the techniques to apply the tax planning with respect to form of business organization, nature and location and computation of tax liability of companies and tax planning for various managerial decisions.	

MC 417	ORGANISATI ONASL CHANGE AND INTERVENTI ON STARTEGIES	The students will be to understand the natures and forces of change and managing the transition and to deal with individual and group while bringing change and overcoming resistance to change and to know the concept of organizational development an implementing OD interventions at individual and team level to introduce planned change and explore issue and challenges for OD practitioners and evaluating OD practices in India.	
MC 418	STARTEGIC MANAGEME NT	The students will be able to get the knowledge of strategic management process and develop analytical ability to make environmental and organizational appraisal and will understand various level of strategy along with generic strategy alternatives and strategy alternatives available and learn the international strategic alternatives and strategic choice making process. Understand the various issues and decision involved in strategy implementation along with process and techniques of strategic evaluation and control	
MC 411	CONSUMER BEHAVIOUR	The students will be able to understand the consumer buying process to enable the markets decisions and explore the underlying variable resulting into difference in consumer decision making, opinion leadership and its role in spreading the innovations among masses and consumer models of buying behavior.	
MC 412S	RURAL MARKETING	The students will be able to understand the rural environment to know potential and challenges in the rural markets, explore rural marketing strategies to tap rural markets and also to remain competitive ,research the rural market to explore areas where companies can position itself in the market., examine the 4p's and 4A's in the rural marketing and use of IT in rural marketing.	

Computer Science

Paper Code	Paper Name	Outcome
BCA Sem-1		
111	Computer and Programming Fundamentals	 Understand basics of H/W & S/W. Basics of various Operating sys. Be aware of Problem Solving Techniques like Algorithms & Flowcharts to develop logic steps of simple problems
112	Windows and PC	• Be able to use Windows operating sys. & MS

	Software	Excel
113	Mathematical Foundation-I Logical Organization of Computers – I	 Understand the foundations of mathematics. Students understands the concept of sets, relations, functions, and discete structures. Use mathematical ideas to model real world problems. Develop and maintan problem-solving skills Understand Binary no. Sys. Also Hexadecimal & Octal no. sys. Understand Boolean algebra & various Logic
115	Communicative English	 Gates. Know the process of technical communication and its components Improve the language skills i.e. Listening Skills, Speaking Skills, Reading Skills and Writing Skills (LSRW) Construct basic and intermediate skills in English language. Enhance comprehension skills, presentation skills, group discussion skills etc Create literature sensibility and learn life skills through Essays, Stories and one act play. Develop confidence for communicating in English and create interest for the life-long learning of English language
116 BCA Sem-2	Programming in C	 Understand basic C-programming concepts like data-types, operators, arrays & various C-statements. Apply control structures and user defined functions for solving problem.
121	Advanced Programming in C	 Understand use of Strings, Pointers and also Files. Understand Macros & command line arguments.
122	Logical Organization of Computers – II	 Understand various types Flip flops & Sequential Circuits – Registers & Counters. Also understand Memory, I/O Devices, m/c Instructions & Instruction Cycle.
123	Mathematical Foundations-II	 Think creatively with curiosity and wonder when exploring problems Explore, analyze and apply mathematical ideas using reason, technology and others

		 tools. Estimate reasonably and demonstrate fluent, flexible and strategic thinking about number.
124	Office Automation Tools	Know Desktop Publishing – Page Maker, Word processing – MS-Word and be able to design Power Point Presentations.
125	Structured System Analysis and Design	 Understanding the life cycle of a systems development project. Learn to analyze, model and design business system and process requirements using common tools and methodologies.
126	Personality Development	 Enhance one's Personality & Personal Grooming. Understand Interpersonal Skills, Role playing, Group Discussion & Presentation skills. Design effective resume & prepare oneself to face interviews.
BCA Sem-3		
231	Object Oriented Programming Using C++	 Understand Object oriented Programming concepts. Know about Constructor handling, Functions, Array of objects, Passing and Returning Objects to Functions, Dynamic Memory Management. Polymorphism - Operator Overloading & function overloading
232	Data Structures	 Understand difference between data type & Data Str. Know about Strings, Arrays, Stacks, Queue & Trees. Learn to develop simple applications using various data str.
233	Computer Architecture	 Describe the fundamental organization of a computer system Understand Register Transfer and Micro-operations. Explain addressing modes, instruction formats and program control statements. Know about Memory Organization & Peripheral Devices.

234	Software Engineering	• Understand program vs. Software, Software
		Engineering, Programming paradigms.
		Knowing Software Development Process
		Models – Waterfall, etc.
		• Feasibility Study, Software Requirement
		Analysis and Specifications – SRS.
		• Structured Analysis and Tools & Maintenance
		Process.
		• Role of project management including planning,
		scheduling and, risk management.
235	Fundamentals of Data	• Differentiate between Data & information. Also
	Base Systems	know about File-based sys. & Database sys.
		• Understand components of DBMS – DBA, Data
		dictionary, etc.
		• Understand architecture – 3 level data
		representation and data independence.
		Differentiate Centralized and Client Server
		architecture to DBMS.
		• Know data models including ER Model & be
		able to build a ER Model given a problem.
		• Understand Relational Model – Keys & Data
		Constraints. Also compare RDBMS with
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Hierarchical & Network Model.
236	Computer Oriented	• Understand that a numerical solution can be
	Numerical	obtained for problems, where an analytical
	Methods	solution does not exist.
		• Know computer arithmetic, iterative methods,
		linear equations and ordinary differential
		equations, Interpolation and Approximation &
		Numerical Differentiation and integration.
BCA Sem-4		
241	Advanced Data Structures	• Understand Trees & Graphs structures.
		• Learn to compare various searching & sorting
		techniques on the basis of their complexity.
		• Able to to implement Files & know about various
		File organization methods.
242	Advanced Programming	• Understand Dynamic Polymorphism - Function
	using C++	Overriding, Abstract Class, etc.
		• Type Conversion, Inheritance, Genericity in C++:

		Templates, Class templates & Exception
		Handling in C++.
243	E-Commerce	• Able to analyze the impact of E-commerce on
		business models and strategy.
		Know Applications in governance
		• Understand how procurement and supply chains
		relate to B2B E-commerce.
		• Emerging Business models – Retail model;
		Media model; advisory model, made-to-order
		manufacturing model, etc.
244	Relational Data Base	Understand RDBMS concepts – keys, Data
	Management	Constraints, etc.
	System	• Able to understand role of Relational algebra &
		Tuple/domain calculus.
		• Able to build efficient Databases using
		Normalization.
		• Able to use SQL queries & Design programs
		using PL/SQL constructs.
245	Computer Oriented	• Able to formulate complete, concise, and correct
	Statistical	mathematical proofs.
	Methods	Prepare Frequency Distribution Table,
		Coefficient of mean Deviation, Standard
		Deviation.
		• Understand Probability Distribution, Correlation,
		Regression, Curve Fitting, Baye's Theorem in
		Decision Making, Forecasting Techniques.
		Know sampling & Statistical Inference.
246	Management Information	• Evaluate the role of information systems in
	System	today's competitive business environment.
		• Identify managerial risks related to information
		system organization processing and utilizing.
		• Analyze the role played by the six major types of
		information systems in organizations
		• Identify the salient characteristics of
		organizations.
		• Identify the hardware components in computer
		system
		• Describe the major types of software.
		• Evaluate models for determining the business

		value of information systems.
		• Analyze the principal causes of information system failure.
BCA Sem-5		
351	Web Designing Fundamentals	 Write HTML and understand how to effectively implement it in the web environment. Write CSS effectively to create well organized, styled web pages. Create a functioning web store with variable products.
352	Operating System-I	 Students will learn how Operating System is Important for Computer System. To make aware of different types of Operating System and their services. To learn different process scheduling algorithms and synchronization techniques to achieve better performance of a computer system. To know virtual memory concepts. To learn secondary memory management.
353	Artificial Intelligence	 Demonstrate fundamental understanding of the history of artificial intelligence (AI) and its foundations. Apply basic principles of AI in solutions that require problem solving, inference, perception, knowledge representation, and learning. Demonstrate awareness and a fundamental understanding of various applications of AI techniques in intelligent agents, expert systems, artificial neural networks and other machine learning models.
354	Computer Networks	 Recognize the technological trends of Computer Networking. Discuss the key technological components of the

		Network.
		• Evaluate the challenges in building networks and
		solutions to those.
	Programming Using	• Students list the visual programming concepts.
355	Visual Basic	• Explain basic concepts and definitions.
		• Express constants and arithmetic operations.
		• Distinguish variable and data types.
356	Multimedia Tools	• Describe the types of media and define
		multimedia system.
		• Describe the process of digitizing (quantization)
		of different analog signals (text, graphics, sound
		and video).
		• Use and apply tools for image processing, video,
		sound and animation.
		• Apply methodology to develop a multimedia
		system.
		• Apply acquired knowledge in the field of
		multimedia in practice and independently
		continue to expand knowledge in this field.
BCA Sem-6		
361	Web Designing Using	• Write HTML and understand how to effectively
	Advanced Tools	implement it in the web environment.
		• Write CSS effectively to create well organized,
		styled web pages. Create a functioning web store
		with variable products.
362	Operating System-II	• This course is a constructive study of an
		operating system. Key topics include the kernel,
		process and memory managers, file access, I/O
		driver, scheduler, etc.
		• Throughout the course, a seminar approach will
		be adopted and much time will be given to group
		discussion simulating an industrial environment.
		• Students are collectively expected to analyze and
		document an operating system using MacOS,
		UNIX/Linux like, Windows, Netware and
		mainframe as practical examples.
363	Computer Graphics	• Understand the basics of computer graphics, different graphics systems and applications of

		 computer graphics. Discuss various algorithms for scan conversion and filling of basic objects and their comparative analysis. Use of geometric transformations on graphics objects and their application in composite form. Extract scene with different clipping methods and its transformation to graphics display device. Explore projections and visible surface detection techniques for display of 3D scene on 2D screen. Render projected objects to naturalize the scene in 2D view and use of illumination models for this
364	Internet Technologies	 Analyze a web page and identify its elements and attributes. Create web pages using XHTML and Cascading Style Sheets.
		 Build dynamic web pages using JavaScript (Client side programming). Create XML documents and Schemas.
365	Advanced Programming with Visual Basic	 This course is a Visual BASIC programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test, debug, and implement objects using the appropriate environment. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.
366	Programming in Core Java	 Use an integrated development environment to write, compile, run, and test simple object-oriented Java programs. Read and make elementary modifications to Java programs that solve real-world problems. Validate input in a Java program. Identify and fix defects and common security issues in code.

		• Document a Java program using Javadoc.
		• Use a version control system to track source
		code in a project.
Paper	Paper	Outcome
Code	Name	Guitoint
B.Sc. NM Sem	-1 Computer Sc.	
P-1	Computer and Programming Fundamentals	 Understand basics of H/W & S/W. Basics of various Operating sys. Be aware of Problem Solving Techniques like Algorithms & Flowcharts to develop logic steps of simple problems
P-2	PC Software	Be able to use Windows operating sys. & MS Excel
B.Sc. NM Sem	-2 Computer Sc.	
P-1	Programming in C	 Understand basic C-programming concepts like data-types, operators, arrays & various C-statements. Apply control structures and user defined functions for solving problem. Understand use of Strings, Pointers and also Files. Understand Macros & command line arguments.
P-2	Logical Organization of Computers	 Understand Binary no. Sys. Also Hexadecimal & Octal no. sys. Understand Boolean algebra & various Logic Gates. Understand various types Flip flops & Sequential Circuits – Registers & Counters. Also understand Memory, I/O Devices, m/c Instructions & Instruction Cycle.
B.Sc. NM Sem	-3 Computer Sc.	
P-1	Data Structures	 Understand difference between data type & Data Str. Know about Strings, Arrays, Stacks and Queue & Trees. Learn to develop simple applications using various data str.

			• Understand Trees & Graphs structures.		
			• Learn to compare various searching & sorting		
			techniques on the basis of their complexity.		
			• Able to implement Files & know about		
			various File organization methods.		
P-2	Soft	tware Engineering	• Understand program vs. Software, Software		
			Engineering, Programming paradigms.		
			Knowing Software Development Process		
			Models – Waterfall, etc.		
			• Feasibility Study, Software Requirement		
			Analysis and Specifications – SRS.		
			Structured Analysis and Tools &		
			Maintenance Process.		
			• Role of project management including		
			planning, scheduling and, risk management.		
B.Sc. N	M Sem-4 Co	omputer Sc.			
P-1	Object	Understand (Deject oriented Programming concepts.		
	Oriented	Know about	• Know about Constructor handling, Functions, Array of objects,		
	Programmin	ng Passing and I	Returning Objects to Functions, Dynamic Memory		
	with C++	Management	Management. Bolymorphism Operator Overloading & function overloading		
		Polymorphis	m - Operator Overloading & function overloading		
		Understand I Abstract Clas	Dynamic Polymorphism - Function Overriding, ss, etc.		
		Type Conver	sion, Inheritance, Genericity in C++: Templates,		
		Class templa	tes & Exception Handling in C++.		
P-2	Operating	Students will	l learn how Operating System is Important for		
	System	Computer Sy	/stem.		
		• To make awa services.	are of different types of Operating System and their		
		• To learn diffe	erent process scheduling algorithms and		
		synchronizat	ion techniques to achieve better performance of a		
		computer sys	stem.		
		• To know virt management	tual memory concepts & to learn secondary memory.		
B.Sc. N	M Sem-5 Co	omputer Sc.			
P-1	Fundamenta	als • Differentiate	between Data & information. Also know about File-		
	of Data Base	based sys. &	Database sys.		
	Systems	• Understand c	components of DBMS – DBA, Data dictionary, etc.		
	-	J	•		

		 Understand architecture – 3 level data representation and data independence. Differentiate Centralized and Client Server architecture to DBMS. Know data models including ER Model & be able to build a ER Model given a problem.
P-2	Web Designing	 Write HTML and understand how to effectively implement it in the web environment. Write CSS effectively to create well organized, styled web pages. Create a functioning web store with variable products.
B.Sc. N	NM Sem-6 Comp	outer Sc.
P-1	RDBMS	 Understand Relational Model – Keys & Data Constraints. Also compare RDBMS with Hierarchical & Network Model. Understand RDBMS concepts – keys, Data Contraints, etc. Able to understand role of Relational algebra & Tuple/domain calculus. Able to build efficient Databases using Normalization. Able to use SQL queries & Design programs using PL/SQL constructs.
P-2	Computer Networks	 Recognize the technological trends of Computer Networking. Discuss the key technological components of the Network. Evaluate the challenges in building networks and solutions to those.

Paper Code	Paper Name	Outcome
B.Com CAV	Sem-1	
BC-VOC- 105	Computer Fundamentals & Logical Organizations	 Students will exacerbate their knowledge by studying Evolution of computer, Basic components of a Digital Computer, Computer Classification. They will study about Input Output Units, Video Standard, Printer and its types. They will gain the knowledge about Memory, Storage Fundamentals, and Various Storage Devices. They will expedite their knowledge by studying about Information Representation, Integer Representation, and Binary Arithmetic.

BC-VOC- 106	Business Data Processing & PC Software- 1	 Demonstrate a basic understanding of computer hardware and software. Demonstrate problem-solving skills. Apply logical skills to programming in a variety of languages. Utilize web technologies. Present conclusions effectively, orally, and in writing.
B.Com CAV	Sem-2	
BC-VOC- 205	Programming in C	 The course is designed to provide complete knowledge of C language. Students will be able to develop logics which will help them to create programs, applications in C. Also by learning the basic programming constructs they can easily switch over to any other language in future.
BC-VOC- 206	Business Data Processing and PC Software-II	 Demonstrate basic understanding of network principles. Working effectively in teams. Apply the skills that are the focus of this program to business scenarios.
B.Com CAV	Sem-3	
BC-VOC- 305	Data Structure	 Designs and analyzes simple algorithms. Defines the meaning of iterative and recursive algorithms. Calculates the running time of iterative algorithms. Uses Big 'O' notation to express algorithmic running time. Describes and analyzes elementary sorting algorithms such as Selection sort, Bubble sort, Insertion sort, and Shell sort.
BC-VOC- 306	Fundamentals of Database Management System	 Designs SQL queries to create database tables and make structural modifications. Designs SQL queries to add data to the database, edit existing data, and to delete data from the database.

		• Effectively designs basic and advanced SQL queries to retrieve data from the database
		• Declares and enforces integrity constraints on a database.
		• Understands and applies indexing mechanisms in databases.
B.Com CAV	Sem-4	
BC-VOC- 405 BC-VOC- 406	Programming in Java Advanced Computer Applications	 Use an integrated development environment to write, compile, run, and test simple object-oriented Java programs. Read and make elementary modifications to Java programs that solve real-world problems. Validate input in a Java program. Identify and fix defects and common security issues in code. Document a Java program using Javadoc. Use a version control system to track source code in a project. Work effectively with a range of current, standard, Office Productivity software applications. Evaluate, select and use office productivity software appropriate to a given situation. Apply basic adult learning and assessment principles in the design, development, and presentation of material produced by office productivity
		 applications. Demonstrate employability skills and a commitment to professionalism. Operate a variety of advanced spreadsheet, operating system and word processing functions. Solve a range of problems using office productivity applications, and adapt quickly to new software releases.
B.Com CAV	Sem-5	
BC-VOC- 505	Web Technology	• Students are able to develop a dynamic webpage by the use of java script and Students will be able to connect a java program to a DBMS and perform insert,

		• Students will be able to write a well formed / valid
		XML document & DHTML.
		• Students will be able to write a server side java
		application called Servlet to catch update and delete
		operations on DBMS table form data sent from
		client, process it and store it on database.
BC-VOC-	Systems Analysis &	• Explain what systems are and how they are
506	Design	developed.
		• Identify and describe the phases of the systems
		development life cycle.
		• Follow the analysis portion of the Systems
		Development Life Cycle in a disciplined manner.
		• Develop and evaluate system requirements.
		• Work effectively in a team environment.
B.Com CAV	Sem-6	
BC-VOC-	Social Networking	• Measure and prove ROI and marketing impact
605	and Data Analytics	• Make better strategic and business decisions
		• Compare your social media performance against
		competitors.
		• Track marketing teams' efficiency
BC VOC	Enterprise Resource	• Malta basia usa of Entampias software and its role
BC-VOC-	Planning	• Make basic use of Emerprise software, and its fore
000	1 ianning	A notive the strategie antions for EDD identification
		• Analyze the strategic options for ERP identification and adoption.
		• Design the ERP implementation strategies.
		• Create reengineered business processes for
		successful ERP implementation
B.A/B.Sc. Sen	n-1 & 2	
Level-	Basic Computer	• Students became familiar with computer hardware's
1(Computer	Education	and software's.
Awareness)		• Be aware with the different operating systems and
		functionalities of the operating systems.
		• Got hand on practice on windows and controls, Microsoft word, avoid and PowerPaint
		• Understands the ways to access internet and using
		email ids for communication
		This course brings confidence among students for
		working on Pc's, prepare them for future and
		make them skill & job oriented.

Fashion Designing

S.no.	Course No.	Subject name	Outcomes
1.	101	BASIC OF DESIGN &	It enhance the knowledge of coloring
		ILLUSTRATION	and sketching of students.
2	102	Basics of Sewing	With this undergraduate learn basic
			skills of stitching.
3	103	Traditional Textiles	Students get to know about Indian
			traditional embroideries as well as
			printing skills .
4	106	Textile chemistry- I	This subject help to tutee
			understands about fiber to thread
			construction process.
5	107	CONCEPT OF FASHION	Learn about clothing and fashion
			terms.
6	108	Fabric construction	They get to know about weaving of
			fabric.
7	109	Garment construction	Students learn sewing terms and
			drafting of apparels.

B.Sc. Fashion designing –Ist year

B.Sc. Fashion designing –2nd year

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B.Sc. Fashion designing –3rd year

S.no.	Course	Subject name	Outcomes
1.	301	History of World Costumes	Tutee gets to know that from where fashion start and there history worldwide.
2.	302	Apparel Manufacturing Technology	Knowledge about garment industry and how it works.
3.	303	Pattern & Marker Making on computer	Create pattern on computer with costume with the help of corel draw .
4.	304	Pattern Making-III	Learn about dart manipulation , fullness, Contouring pattern and so on.
5.	305	Project report	They have to work on five project related to garment designing in which involved sketching, pattern and stitching.
6.	306	Marketing and merchandising	Enhance the knowledge of different types of merchandising ,retailing , forecasting of fashion and so on.
7.	307	Marketing and merchandising(Prac.)	In this undergraduate survey the different brands ,trims, display the window and many more activates.
8.	308	Line Development	Portfolios create in this and in which all three years best work involved.
9.	309	Garment Construction – III	advance garment construction done by students.
10.	310	Internship	Student go for training in apparel industry and make file on that .

<u>History</u>

Paper Code	Paper Name	Outcome
B.A. Sem-1		
	History of India-	Students are able to understand the development of History and Sources of
	Equliest time to	Ancient History, Indus Civilization.
	Gupta Age opt (i)	
B.A. Sem-I	I	
	History of India	More learn about the King Kaniska, Harsha and sultanate period.
	Gupta Age to	
	1526 AD opt (i)	

B.A. Sem-I	II	
	Political History	This paper is covered for civil services and allied services course to prepare
	of India- 1526 to	the examination.
	1857 opt (i).	
B.A. Sem-I	V	
	Indian National	This paper gives an idea about the British Empire in India and also the
	Movement opt	Consequences of National Movement in India.
	(i).	
B.A. Sem-V	7	
	Rise of Modern	This Paper learns about the Renaissance & Reformation and many
	World opt (i).	Revolutions out breaks in Modern World.
	1 ()	
B.A. Sem-V	Ί.	
	History of Europe	This paper deal with changes of Europe after the French Revolution and
	1789 to 1870) opt	Political Changes in Russia, Italy and Russia etc.
	(i).	

<u>Hindi</u>

Paper Code	Paper Name	Outcome
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	fgUnh vfuok;Z	d½ fo kfFkZ;ksa esa Hkk'kk dkS"ky dk fodkIA
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		x½ Hkk'kk ds "kq) mPpkj.k esa leFkZ cukukA
		?k½ fgUnh lkfgR; ds vkjfEÒd dky dk cks/kA
		³ ½ HkfDrdkyhu o jhfrdkyhu dfo;ksa dh jpukvksa ds ek/;e ls ;qxhu
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		djkukA
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Health and Physical Education

Paper	Paper	Outcome	
Code	Name	Outcome	
B.A. Sem-1			
PE-01	Health and Physical Education	 Students will apply knowledge of Physical Education, Health Education To explain Aim& Objectives of Phy.Edu. To understand Human Anatomy& Physiology &It's Importance. To Use an understanding of history of yoga to effectively know about its value in everyday life Further study in Physical Education. 	
B.A. Sem-I	I		
PE-02	Health and Physical Education	 After completion of this course, students will apply Knowledge of First-Aid, Health Education, Physical Fitness to explain Aim & Objectives of Health Education. Use an understanding of history of Physical Education. Learn to develop Physical Fitness Components. To know Human Bones, Joints& Functions. 	
B.A. Sem-I	B.A. Sem-III		
PE-03	Health and Physical Education	 At the end of this course students will learn. Safety Education,Sports Injuries, Preventions&control, Common Diseases,Balanced Diet. To know the Anatomy & Physiology of Circulatory System,Exercise Physiology. Health&First-Aid-Management. 	
B.A. Sem-I	V		
PE-04	Health and Physical Education	• To know the Significance & Physiology of Warming up& Limbering down.	

	 To understand the Psychological aspects of Physical Education &Learning Outcomes,Laws of learning & Curve. To develop an understanding of world major Sports Events:Olympic& Asian Games.etc. To know the Anatomy & Physiology of Respiratory System.Exercise Physiology.BMI.
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PE-05	Health and Physical Education	 Successfully Completion of this course will enable the students to learn. Driving of Council & Development Development & Defermities
		• Principles of Growin& Development, Body Postures & Deformities.
		• To understand the anatomy & physiology of muscular system,
		Composition of Human Blood.
		• Sports Organization & Administration&Prepration of Fixtures
B.A. Sem-V	/ I .	
PE-06	Health and Physical	At the end of this course students will be able to understand
	Education	• Motivationa Socialization to explain its Relevance in sports
		Performance.
		• Sports Training, Biomechanics & Laws of motion to
		effectively know about the scientific aspects of Phy.Edu.& It's application.
		• Anatomy & Physiology of digestion & Exercise, Key factor of
		Sports Performance.
		 Practical Approach of Yoga&First Aid.
		• Further Study in Physical Education.

Economics

Paper Code	Paper Name	Outcome
B.A. Sem-1	l	
	Micro Economics	In this semester Micro Economics teaches us how we can use our limited resources to get maximum satisfaction .Its also study about consumer behavior.
B.A. Sem-II		
	Micro Economics	In this semester students learn about market types like perfect Competition, Monopoly and Monopolistic. In this students learns about actual market type that prevails in our economy.

B.A. Sem-III		
	Macro Economics	Macro Economics studies about economy as a whole. Under this paper students learn how we calculate our national income.
B.A. Sem-I	V	
	Macro Economics	In this semester students learn about economy investment process, rent ,wages and profit.
B.A. Sem-V		
	INDIAN ECONOMICS	In this paper students learn about Indian Economic problems like unemployment, poverty.
B.A. Sem-VI.		
	INDIAN ECONOMICS	In this paper students learn about how our country do trade with other countries, What are the directions nd composition of foreign trade, Balance of payments.

<u>English</u>

Paper Code	Paper Name	Outcome
B.A. Sem-1	l	
	English Compulsory	 Know the process of communication and its components. Improve the language skills i.e. Listening Skills, Speaking Skills, Reading Skills and Writing Skills (LSRW) Construct basic and intermediate skills in English language. Enhance comprehension skills, presentation skills, group discussion skills etc Create literature sensibility and learn life skills through Literature and Language-I including Essays. Develop confidence for communicating in English and create interest for the life-long learning of English language
B.A. Sem-II		
	English Compulsory	 Know the process of communication and its components Improve the language skills i.e. Listening Skills, Speaking Skills, Reading Skills and Writing Skills (LSRW)

		 Construct basic and intermediate skills in English language. Enhance comprehension skills, presentation skills, group discussion skills etc Create literature sensibility and learn life skills through Literature and Language-II including stories. Develop confidence for communicating in English and create interest for the life-long learning of English language
B.A. Sem-L	11	
	English Compulsory	 Know the process of communication and its components Improve the language skills i.e. Listening Skills, Speaking Skills, Reading Skills and Writing Skills (LSRW) Construct basic and intermediate skills in English language. Enhance comprehension skills, presentation skills, group discussion skills etc Create literature sensibility and learn life skills through Poetry. Develop confidence for communicating in English and create interest for the life-long learning of English language
B.A. Sem-IV		
	English Compulsory	 Know the process of communication and its components Improve the language skills i.e. Listening Skills, Speaking Skills, Reading Skills and Writing Skills (LSRW) Construct basic and intermediate skills in English language. Enhance comprehension skills, presentation skills, group discussion skills etc Create literature sensibility and learn life skills through one act plays Develop confidence for communicating in English and create interest for the life-long learning of English language
B.A. Sem-V	7	
	English Compulsory	 Know the process of communication and its components Improve the language skills i.e. Listening Skills, Speaking Skills, Reading Skills and Writing Skills (LSRW) Construct basic and intermediate skills in English language. Enhance comprehension skills, presentation skills, group discussion skills etc Create literature sensibility and learn life skills through Novel Kanthapura by Raja Rao. Develop confidence for communicating in English and create interest for the life- long learning of English language
B.A. Sem-V	I.	
	English	• Know the process of communication and its components

Compulsory	• Improve the language skills i.e. Listening Skills, Speaking Skills,
	Reading Skills and Writing Skills (LSRW)
	• Construct basic and intermediate skills in English language.
	• Enhance comprehension skills, presentation skills, group
	discussion skills etc
	• Create literature sensibility and learn life skills through
	Shakespeare Play The Merchant of Venice.

<u>Punjabi</u>

Paper	Paper	Quitagen a
Code	Name	Outcome
B.A. Sem-1		
	Elective Punjabi	The Student aquires the detailed knowledge about Modern Punjabi
		Literature, Specially about novel. 'Idoms' and 'Official Termionology'
		increase the knowledge of the students about Punjabi Language.
B.A. Sem-I	I	
	Elective Punjabi	The syllabus of this semester gives the knowledge about Modern Punjabi Poetry and Punjabi One-Act Play. The students also understand about their writting mistakes and becomes able to improve through 'Error Correction Part.
B.A. Sem-I	II	
	Elective Punjabi	The Student aquires knowledge about Punjabi Short Stories, Meter and Medivial Punjabi Poetry.
B.A. Sem-I	V	
	Elective Punjabi	The Student understands about the History of Medival Punjabi Literature, role of Ornament in Poetical Writing, and learns how to write an essay.
B.A. Sem-V	7	
	Elective Punjabi	The Student becomes able to understand about various poetic forms and the properties of Punjabi Essay.
B.A. Sem-V	/ I .	
	Elective Punjabi	The Student aquires knowledge about History of Punjabi Literature and Different forms of Punjabi Literature

Home Science

Paper	Paper	Qutaoma
Code	Name	Outcome

Family Resource Management • Better implementation of time, energy and money. Job opportunities in Home Science field. Interior decoration ideas of implementation. Decoration of Earthern pots. • Importance of table manners of table setting. B.A. Sem-II Health, Hygiene & Applied Science • Importance of hygiene for better health. & Applied Science • Importance of immunity in present scenario. • Cleaning of polishing of household articles. B.A. Sem-III Physiology • Knowledge about Body mechanism through psychology. • Repair and care of sewing machine at home. • Learning basic stitches, seams, process, embriodary, knitting, tie and dye. B.A. Sem-IV • Drafing and Stitching of garments at home. • Learning about tradition textiles. • Various soap of detergent for different fabrics. • Finishing of fabric at home. B.A. Sem-VI • Importance of nutrition especially in present scenario. • Planning and preaparing diets for various age groups of invalid diets for patients. B.A. Sem-VI • Understanding Child Pscyhology. • Development • Developing learning skills, personality traits, role of play in childhood. • Coomnon ailments of children. • Common ailments of children. • Coomnon ailments of children. • Common ailments of children. • Common ailments of children. • Common ailments of children. • Common ailments of children. • Cooming using different methods, preservation of vegetable and fruits	B.A. Sem-1		
Management • Job opportunities in Home Science field. Interior decoration ideas of implementation. • Decoration of Earthern pots. B.A. Sem-II Importance of table manners of table setting. B.A. Sem-II • Importance of hygiene for better health. & Applied • Learning about mode of spread of various diseases and precautions to be taken to avoid them. B.A. Sem-III • Cleaning of polishing of household articles. B.A. Sem-III • Knowledge about Body mechanism through psychology. B.A. Sem-III • Drafing and Stitching of garments at home. • Learning basic stitches, seams, process, embriodary, knitting, tie and dye. B.A. Sem-IV • Drafing and Stitching of garments at home. • Learning about tradition textiles. • Yarious soap of detergent for different fabrics. • Finishing of fabric at home. • Learning about tradition especially in present scenario. B.A. Sem-VI • Importance of nutrition especially in present scenario. B.A. Sem-VI • Understanding Child Pscyhology. Poods & • Understanding Child Pscyhology. • Pevelopment • Understanding Child Pscyhology. • Developing learning skills, personality traits, role of play in childhood. • Common ailments of children. • Cooking using different methods, pre		Family Resource	• Better implementation of time, energy and money.
B.A. Sem-II Importance of hygiene for better health. Learning about mode of spread of various diseases and precautions to be taken to avoid them. Importance of immunity in present scenario. Cleaning of polishing of fabricat home. Learning about mode of served of various diseases and dyce. B.A. Sem-III Physiology Knowledge about Body mechanism through psychology. Repair and care of sewing machine at home. Learning about mode of graments at home. Learning basic stitches, seams, process, embriodary, knitting, tie and dye. B.A. Sem-IV Clothing and Textiles Uraining and Stitching of garments at home. Learning hout tradition textiles. Various soap of detergent for different fabrics. Finishing of fabric at home. B.A. Sem-VI Importance of nutrition especially in present scenario. Planning and preaparing diets for various age groups of invalid diets for patients. B.A. Sem-VI Understanding Child Pscyhology. Development Conting and graments. Common ailments of children. Conting skills, personality traits, role of play in childhood. Common ailments of children. Common ailments of children. Conting and fifterent methods, preservation of vegetable and fruits 		Management	• Job opportunities in Home Science field.
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• Various soap of detergent for different fabrics. • Finishing of fabric at home. B.A. Sem-V Foods & Nutrition • Importance of nutrition especially in present scenario. • Planning and preaparing diets for various age groups of invalid diets for patients. B.A. Sem-VI. • Understanding Child Pscyhology. • Development • Common ailments of children. • Care of pregnant women. • Cooking using different methods, preservation of vegetable and fruits		Textiles	• Learning about tradition textiles.
B.A. Sem-V Foods & Foods & • Importance of nutrition especially in present scenario. Nutrition • Planning and preaparing diets for various age groups of invalid diets for patients. B.A. Sem-VI. • Understanding Child Pscyhology. B.Velopment • Developing learning skills, personality traits, role of play in childhood. • Common ailments of children. • Cooking using different methods, preservation of vegetable and fruits			• Various soap of detergent for different fabrics.
B.A. Sem-V Foods & Nutrition • Importance of nutrition especially in present scenario. • Planning and preaparing diets for various age groups of invalid diets for patients. B.A. Sem-VI. B.A. Sem-VI. • Understanding Child Pscyhology. • Development • Developing learning skills, personality traits, role of play in childhood. • Common ailments of children. • Care of pregnant women. • Cooking using different methods, preservation of vegetable and fruits			• Finishing of fabric at home.
Foods & NutritionImportance of nutrition especially in present scenario.Planning and preaparing diets for various age groups of invalid diets for patients.B.A. Sem-VI.Human DevelopmentUnderstanding Child Pscyhology.Developing learning skills, personality traits, role of play in childhood.Common ailments of children.Care of pregnant women.Cooking using different methods, preservation of vegetable and fruits	B.A. Sem-V	I	
NutritionPlanning and preaparing diets for various age groups of invalid diets for patients.B.A. Sem-VI.• Understanding Child Pscyhology. • Developing learning skills, personality traits, role of play in childhood.Image: Common allments of children. • Common allments of children. • Cooking using different methods, preservation of vegetable and fruits		Foods &	• Importance of nutrition especially in present scenario.
B.A. Sem-VI. • Understanding Child Pscyhology. Development • Developing learning skills, personality traits, role of play in childhood. Common ailments of children. • Common ailments of children. Care of pregnant women. • Cooking using different methods, preservation of vegetable and fruits		Nutrition	 Planning and preaparing diets for various age groups
B.A. Sem-VI. Human Development Development Output Developing learning skills, personality traits, role of play in childhood. Common ailments of children. Care of pregnant women. Cooking using different methods, preservation of vegetable and fruits			of invalid diets for patients.
 Human Development Understanding Child Pscyhology. Developing learning skills, personality traits, role of play in childhood. Common ailments of children. Care of pregnant women. Cooking using different methods, preservation of vegetable and fruits 	B.A. Sem-V	/ I .	
 Development Developing learning skills, personality traits, role of play in childhood. Common ailments of children. Care of pregnant women. Cooking using different methods, preservation of vegetable and fruits 		Human	Understanding Child Pscyhology.
 Common ailments of children. Care of pregnant women. Cooking using different methods, preservation of vegetable and fruits 		Development	• Developing learning skills, personality traits, role of play in childhood.
 Care of pregnant women. Cooking using different methods, preservation of vegetable and fruits 			• Common ailments of children.
 Cooking using different methods, preservation of vegetable and fruits 			• Care of pregnant women.
			• Cooking using different methods, preservation of vegetable and fruits

		in the form of jams, pickles etc.
	٠	Fancy cooking.

Political Science

Paper	Paper	Outcome
Code	Name	
B.A. Sem-1		
	Indian Constitution	The students came to know about the basics of Indian Constitution. They had learnt about the digital platforms. They knew about the current affairs and mythology in group discussion and E -Newspaper. The qualities of leadership and confidence developed in them. They had learnt about their supreme law in class discussion.
B.A. Sem-I	I	
	Indian Politics	The students come to know about the basics of Indian Politics .They had learnt about the digital platforms. They knew about the current affairs and mythology in group discussion. The qualities of leadership and confidence developed in them. They had cleared their therotical knowledge with real example.
B.A. Sem-I	II	
	Indian Political Thinkers	The students came to know about the basics of Indian political thought. They had learnt about the digital platforms. They knew about the Indian Political thinkers. They had participated in group discussion, tests and other skill development programs. They had discussed Indian Political thinker's thought and learnt more aboutvaluable methods.
B.A. Sem-I	V	
	Indian Political Thinkers	The students came to know about the basics of IndianPolitical Thinkers . They had learnt about the digital platforms. They knew about the mythology in group discussion. The qualities of leadership and confidence developed in them.
B.A. Sem-V	7	
	International Relations	The students came to know about the basics International Relations. They had learnt about the digital platforms. They knew about the current affairs and mythology in group discussion. The qualities of leadership and confidence developed in them. They had discussed the relationamong thenations in class and India's relations with

		neighborhood
B.A. Sem-V	/Ι.	
	International	The students came to know about the basics of International Organization.
	Organization	They had learnt about the digital platforms. They knew about the current
		affairs and mythology in group discussion. Students haddiscussed current
		issues in class. They had used E -newspaper for International news and
		updates.

Commercial Art, Designing and Painting

Paper	Paper	Outcome
Code	Name	Outcome
B.A. Sem-1	[
	Advertising	• Understanding in Basic knowledge of art in the beginning.
	Foundation	• Detailed study of drawing in art.
		• Introducing the basics of commercial art.
		• Introducing the art material used in commercial art
		• Analyse the basics of art aesthetics.
	Practical	Course Outcome for STILL LIFE
		• Create a Drawing by focusing an object
		• Able to concentrate on the different angles on still objects
		• Observing the small details of objects.
		• Become confident in attempting something new in their drawings
		• Ability to look at the finer details through light and shade via
		colours or pencils.
		Course Outcome for GRAPHICS
		• Create an official stationery for any organisation or any institution
		Basic knowledge of standard size of stationary paper
		• Understanding of content mention in official document
		• Creative designing includes watermarks
		• Use of colour according to printing methods.
		Course Outcome for MAGAZINE LAYOUT
		• Design a layout including their elements
		• Creative harmonious design in illustration and typography
		• Helping the reader to grasp the essence of the idea
		• Focus on the main concept of ad
		• Able to communicate the viewer via creative slogan and illustration
B.A. Sem-I	I	
	Advertising	Understanding of colours and colour theory
	Foundation	Detailed explanation of advertising with reference to design

	• Identification of a product or company through pictures, logos, symbol etc.
	• Able to design the structural process of an advertisement through
	creative thinking
	 Able to Perform the steps from Visualization to final artwork
Practical	Course Outcome for STILL LIFE
	• Create a Drawing by focusing an object
	• Able to concentrate on the different angles on still objects
	• Observing the small details of objects.
	• Become confident in attempting something new in their drawings
	• Ability to look at the finer details through light and shade via
	colours or pencils.
	Course Outcome for GRAPHICS
	• Create an official stationery for any organisation or any institution
	Basic knowledge of standard size of stationary paper
	Understanding of content mention in official document
	Creative designing includes watermarks
	• Use of colour according to printing methods.
	Course Outcome for MAGAZINE LAYOUT
	• Design a layout including their elements
	• Creative harmonious design in illustration and typography
	• Helping the reader to grasp the essence of the idea
	• Focus on the main concept of ad
	• Able to communicate the viewer via creative slogan and illustration
•	

B.A. Sem-III

Advertising	Knowledge about the history of printing
Foundation	• Understanding of methods in printing
	Update knowledge about latest technology
	• Formulate the design of typography in copy formats
	• Understanding of printing methods and technology in detail
Practical	Course Outcome for POSTER DESIGN
	• Motivate student to learn a specific topic on the social issues
	• Capture a moving audience with a message with strong illustration
	• Learn to execute an illustration which is visually appealing and
	interesting
	• Learning of colour scheme which is best suited for the topic.
	• Understanding of poster size, shape and its elements
	Course Outcome for ILLUSTRATION
	• Create an imaginary composition on the basis of given theme
	• Use of multiple colour combination
	• Arrangement of figures according to theme
	Build strong imagination

Improve drawing skills
Course Outcome for MAGAZINE LAYOUT
• Design a layout including their elements
• Creative harmonious design in illustration and typography
• Helping the reader to grasp the essence of the idea
• Focus on the main concept of ad
• Able to communicate the viewer via creative slogan and illustration

B.A. Sem-IV

	Advertising	• Understanding the meaning of advertising and its history
	Foundation	• Understanding of different functions of advertising
		• Representation of a brand in a series with same idea with campaign
		• Descriptive knowledge of photography with the help of camera
		• Able to perform an ad design and launch a brand in the market.
	Practical	Course Outcome for POSTER DESIGN
		 Motivate student to learn a specific topic on the social issues
		• Capture a moving audience with a message with strong illustration
		• Learn to execute an illustration which is visually appealing and
		interesting
		• Learning of colour scheme which is best suited for the topic.
		• Understanding of poster size, shape and its elements
		Course Outcome for ILLUSTRATION
		• Create an imaginary composition on the basis of given theme
		• Use of multiple colour combination
		• Arrangement of figures according to theme
		Build strong imagination
		• Improve drawing skills
		Course Outcome for MAGAZINE LAYOUT
		• Design a layout including their elements
		• Creative harmonious design in illustration and typography
		• Helping the reader to grasp the essence of the idea
		• Focus on the main concept of ad
		• Able to communicate the viewer via creative slogan and illustration
B.A. Sem-V	7	
	Advertising	• Knowledge of various types of media used in advertising
	Foundation	• Knowledge of Outdoor and Indoor media
		Explanation of print media used in daily life
		 Latest software used in company to create advertisement
		• Able to work in the market with afficient knowledge of software's
		• AUE to work in the market with efficient knowledge of software s

	Practical	Course Outcome for POSTER DESIGN
		• Motivate student to learn a specific topic on the social issues
		• Capture a moving audience with a message with strong illustration
		• Learn to execute an illustration which is visually appealing and
		interesting
		• Learning of colour scheme which is best suited for the topic.
		• Understanding of poster size, shape and its elements
		Course Outcome for ILLUSTRATION
		• Create an imaginary composition on the basis of given theme
		• Use of multiple colour combination
		• Arrangement of figures according to theme
		Build strong imagination
		Improve drawing skills
		Course Outcome for MAGAZINE LAYOUT
		• Design a layout including their elements
		• Creative harmonious design in illustration and typography
		• Helping the reader to grasp the essence of the idea
		• Focus on the main concept of ad
		• Able to communicate the viewer via creative slogan and illustration
B.A. Sem-V	VI.	
	Advertising	• Basic knowledge of marketing in the context of advertising
	Foundation	• Analysing the nature of market with presenting the product in the
		right place
		• Representation of a brand in a series with same idea with campaign
		Comparing the types of agencies in detail
		Future Awareness in the career of commercial art
	Practical	Course Outcome for POSTER DESIGN
		• Motivate student to learn a specific topic on the social issues
		• Capture a moving audience with a message with strong illustration
		• Learn to execute an illustration which is visually appealing and
		interesting
		• Learning of colour scheme which is best suited for the topic.
		Understanding of poster size, shape and its elements
		Course Outcome for ILLUSTRATION
		• Create an imaginary composition on the basis of given theme
		Use of multiple colour combination
		 Arrangement of figures according to theme
		Build strong imagination
		• Improve drawing skills
		Course Outcome for MAGAZINE LAYOUT
		• Design a layout including their elements
		• Creative harmonious design in illustration and typography

Helping the reader to grasp the essence of the idea
• Focus on the main concept of ad
• Able to communicate the viewer via creative slogan and illustration

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		ds feJ.k ls vUroZS'kf;d fo'k;ksa esa IEcU/k LFkkfir djrs gq,
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M.A. Fine Arts Subject Outcomes

Paper	Paper	Orthogan
Code	Name	Outcome
MA Fine	Arts –(Painting) Sem-	1
Paperl	History of Modern	• Trace the development of Modern Western art from the 18 th centaury
(Theory)	Western Art	to 20 th century.
		 Develop a critical understanding of western Art Movements and its relevance and impact on art. Critical understanding of the art work of some of the seminal/prominent artists and their contributions to modern art. Develop a critical understanding of History of Western Art and its relevance and impact on art.
(Theory)	Philosophy of Art	 Introduction and effective knowledge of art and aesthetics, for carrier development/ art appreciation. Critical understanding of Indian Vedic Philosophy and Literature and its relevance to art. To develop a keen insight into the contribution of Indian Philosophy in development of art in India. Develop a critical understanding of Indian philosophy of art and aesthetics and its relevance to Indian art.
Paper III (Practical)	Portrait and Life study	 Study of figure from life and its transformation into composition.
Paper IV (Practical)	Creative Composition	 Advancement of previous experience towards a complete pictorial interpretation, theme and expression of mood, symbolism, dramatization, distortion for emotional effect including abstract expressionism projects with emphasis on independent creative work. a) Advanced Drawing Exploration of an individual approach to drawing as an aesthetic exercise of visual sign and symbol and locate your practice in the broader context of contemporary art Exercise of different drawing techniques of traditional and contemporary masters Exercise on application of different mediums both traditional and contemporary as a drawing tool Medium: pencil, charcoal, pastel, pen and ink, water color Acrylic and oil, photocopy, impression, stencil, etc. b) Composition Identify and synthesis the connection between process and concept in reference to collage/collision Exercise with different methods and traditions of representation of space form and color in reference to history and visual

		 culture Medium: Develop, test and employ materials, process and mediums in a way that activates your ideas and concepts
MA Fine	Arts –(Painting) Sem-	2
Paper I (Theory)	History of Modern Western Art	 Trace the development of Modern Western art from the 18thcentaury to 20th century. Develop a critical understanding of western Art Movements and its relevance and impact on art. Critical understanding of the art work of some of the seminal/prominent artists and their contributions to modern art. Develop a critical understanding of History of Western Art and its relevance and impact on art.
Paper II (Theory)	Philosophy of Art	 Introduction and effective knowledge of art and aesthetics, for carrier development/ art appreciation. Critical understanding of Indian Vedic Philosophy and Literature and its relevance to art. To develop a keen insight into the contribution of Indian Philosophy in development of art in India. Develop a critical understanding of Indian philosophy of art and aesthetics and its relevance to Indian art.
Paper III (Practical)	Portrait and Life study	 Study of figure from life and its transformation into composition.
Paper IV (Practical)	Creative Composition	 Advancement of previous experience towards a complete pictorial interpretation, theme and expression of mood, symbolism, dramatization, distortion for emotional effect including abstract expressionism projects with emphasis on independent creative work. a) Advanced Drawing Exploration of an individual approach to drawing as an aesthetic exercise of visual sign and symbol and locate your practice in the broader context of contemporary art Exercise of different drawing techniques of traditional and contemporary masters Exercise on application of different mediums both traditional and contemporary as a drawing tool Medium: pencil, charcoal, pastel, pen and ink, water color Acrylic and oil, photocopy, impression, stencil, etc. b) Composition Identify and synthesis the connection between process and concept in reference to collage/collision Exercise with different methods and traditions of representation of space, form and color in reference to history and visual culture Medium: Develop, test and employ materials, process and mediums in a way that activates your ideas and concepts

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MA Fine Arts –(Painting) Sem-3		
Paper I (Theory)	History of Modern Indian Art	 To identify the issues and challenges of modernism and nationalism in the Indian context. Effective knowledge of Visual arts, for carrier development Critical understanding of various modern art movements, art groups of India. To develop a keen insight into the contribution of movements and artists in shaping modern art in India.
Paper II	Dissertation	 A critical and analytical aspect of Painting, Applied Arts, Sculpture, Graphics (Print Making) etc. A critical and analytical aspect of History of Art. Folk, Tribal Art and Popular form of Art. Concept of Aesthetics or Philosophy. Contemporary Artists. New trends in Contemporary Art. Any other new relevant topic including experimentation etc.
Paper III (Practical)	Life Study	 Study of figure from life and its transformation into composition.
Paper IV (Practical)	Creative Composition	 Advancement of previous experience towards a complete pictorial interpretation, theme and expression of mood, symbolism, dramatization, distortion for emotional effect including abstract expressionism projects with emphasis on independent creative work. a) Advanced Drawing Exploration of an individual approach to drawing as an aesthetic exercise of visual sign and symbol and locate your practice in the broader context of contemporary art Exercise of different drawing techniques of traditional and contemporary masters Exercise on application of different mediums both traditional and contemporary as a drawing tool Medium: pencil, charcoal, pastel, pen and ink, water color Acrylic and oil, photocopy, impression, stencil, etc. b) Composition Identify and synthesis the connection between process and concept in reference to collage/collision Exercise with different methods and traditions of representation of space, form and color in reference to history and visual culture Medium: Develop, test and employ materials, process and mediums in a way that activates your ideas and concepts
MA Fine	Arts –(Painting) Sem-	-4
Paper I (Theory)	History of Modern Indian Art	 To identify the issues and challenges of modernism and nationalism in the Indian context. Effective knowledge of Visual arts, for carrier development Critical understanding of various modern art movements, art groups of India.

		• To develop a keen insight into the contribution of movements
		and artists in shaping modern art in India.
Paper II	Dissertation	 A critical and analytical aspect of Painting, Applied Arts, Sculpture, Graphics (Print Making) etc. A critical and analytical aspect of History of Art. Folk, Tribal Art and Popular form of Art. Concept of Aesthetics or Philosophy. Contemporary Artists. New trends in Contemporary Art. Any other new relevant topic including experimentation etc.
Paper III	Life Study	• Study of figure from life and its transformation into composition.
(Practical)		
Paper IV (Practical)	Creative Composition	 Advancement of previous experience towards a complete pictorial interpretation, theme and expression of mood, symbolism, dramatization, distortion for emotional effect including abstract expressionism projects with emphasis on independent creative work. a) Advanced Drawing Exploration of an individual approach to drawing as an aesthetic exercise of visual sign and symbol and locate your practice in the broader context of contemporary art Exercise of different drawing techniques of traditional and contemporary masters Exercise on application of different mediums both traditional and contemporary as a drawing tool Medium: pencil, charcoal, pastel, pen and ink, water color Acrylic and oil, photocopy, impression, stencil, etc. b) Composition Identify and synthesis the connection between process and concept in reference to collage/collision Exercise with different methods and traditions of representation of space, form and color in reference to history and visual culture Medium: Develop, test and employ materials, process and mediums in a way that activates your ideas and concepts