PROGRAMMES OUTCOMES, PROGRAMME SPECIFIC OUTCOMES, COURSE OUTCOMES



Guru Nanak College for Girls Sri Muktsar Sahib, Punjab (152026) NAAC Accredited 'A' grade college

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Department of Biotechnology

Programme Outcomes: B. Sc (Hons.) Biotechnology

Department of Biotechnology	After successful completion of three year degree program in B.Sc. Biotechnology a student should be able to;
Programme Outcomes	 PO-1. Demonstrate, solve and an understanding of major concepts in all disciplines of Biotechnology. PO-2. Solve the problem and also think methodically, independently and draw a logical conclusion. PO-3. Create an awareness of the applications of Biotechnology on the environment, society, and development outside the scientific community. PO-4. Find out the green route for chemical reaction for sustainable development. PO-5. To inculcate the scientific temperament in the students and outside the scientific community. PO-6. To inculcate the scientific temperament in the students and outside the scientific community. PO-7. Use modern techniques, decent equipments and soft wares.
r r	rogramme Specific Outcomes
Programme Specific Outcomes	 PSO-1. Understand Microbial techniques and culturing of cells for R&D PSO-2. Preparation SOP for various techniques and protocols. PSO-3. Make students competitive for jobs in clinical labs and hospitals PSO-4. Work as quality controller in pharmaceutical, brewing, agriculture and diary industries. PSO-5. Understand good laboratory practices and safety
	Semester-I
Course Outcomes	After completion of these courses students should be able to:
Paner: BIOT-Sem-I-I-T	CO-1 Know the word formation and vocabulary
English	 CO-2. Will develop the sense of humanity with the study of Drama. CO-3. Communicate in general, business and in particular, organizations, types of communication, and significance of positive attitude in improving communication. CO-4. Write letters of all kinds, tender notices, auction notices,

	public notices and memos	
Paper: BIOI - Sem-III-I	CO-1. Will improve write skill, pronunciations and vocabulary of	
Punjadi/HCP	the language. $CO(2)$ Develop the same of humanity from noom and stories	
	CO-2. Develop the sense of humanity from poem and stories.	
Paper: BIOT - Sem-IIII-TA	CO-1. To study the different concepts of limits, differentiation,	
Mathematics / A	integration and calculus so as to apply these concepts in	
	biotechnology.	
	CO-2. To nancle problems of quadratic, cubic equations,	
	differential equation, linear equation and thus study the applications	
Paper: BIOT - Sem-IIII-TB	CO-1. know scientific vocabulary and understanding of a variety	
Life Sciences -B	of life science concepts. Student will be understood ecology and	
	ecosystems.	
	co-2. Gain knowledge about the anatomy and physiology of	
	annnais and annnai systems	
Paper: BIOT-Sem-I-IV-T	CO-1. Apply the concepts of chemical thermodynamics, chemical	
Chemistry	equilibrium and their applications.	
	CO-2. Apply knowledge compounds of carbon, their sources,	
	mechanism of reactions and utility in daily life	
	CO-3. Study concepts of stereochemistry and spectra of organic	
	molecules.	
Paper: BIOT-Sem-I-V-T	CO-1. Apply laws of physics in biological sciences.	
Physics	CO-2. Introduction to basic course of Physics will enhance the	
	grasping of subject.	
Paper: BIOI-Sem-I-VI-I	CO-1. This course will introduce the basic concepts of	
Introduction to Biotochnology	biolectinology to the students. CO(2) apply knowledge from the history of histochnology to the	
Biotechnology	co-2. apply knowledge from the history of biotechnology to the foundations of modern biotechnology	
	CO_3 Apply concepts of biotechnology in fermentation industry	
	environment and modern medicine and the ethical implications of	
	biotechnology.	
	Semester-II	
CO-1. Know the word formation and vocabulary		
Paper: BIOT-Sem-II-I-T	CO-2. Develop the sense of humanity with the study of Drama.	
English	CO-3. Communicate in general, business and in particular,	
	organizations, types of communication, and significance of positive	
	attitude in improving communication.	
	CO-4. Write letters of all kinds, tender notices, auction notices,	
	public notices, and memos.	
Paper: BIOT - Sem-IIII-T	CO-1. Will improve write skill, pronunciations and vocabulary of	
Punjabi/HCP	the language.	
	CO-2. Develop the sense of humanity from poem and stories.	

Paper: BIOT-Sem-II-III-T	CO-1. To learn applications of statistics in the field of biology
Statistics & Computer	CO-2. To understand concepts of probability averages
Fundamentals	distributions tests of deviations correlation and linear regression
i unumentuis	CO-3 To learn to design experiments and analysis of results by
	tests of significance or analysis of variance
	tests of significance of analysis of variance.
Paper: BIOT-Sem-II-IV-T	CO-1. To make student conversant with the biochemical aspect of
Basic Biochemistry	cell, chemical structure & function of various bimolecules.
	··· ,·· · ··· ··· ··· ··· · ··· · ··· · ··· ·
Paper: BIOT-Sem-II-V-T	CO-1. To understand the detailed overview of eukaryotic cell and
Cell Biology	its inner components.
	CO-2. To understand the processes of cell transport and cell
	locomotion.
	CO-3. Apply knowledge of stem cells and their applications for
	human welfare.
Paper: BIOT-Sem-II-VI-T	CO-1. Apply the significant role of microbes in understanding
General Microbiology	medical science and industrial problems.
	Semester-III
Paper: BIOT-Sem-III-I-T	CO-1. Familiarize the students with the biochemical activities
Biochemistry	taking place at cellular level, highlighting the enzymatic reactions,
	metabolic pathways and biochemical aspects.
Paper: BIOT-Sem-III-II-T	CO-1. The focus of this course is on the science of heredity with
Genetics	emphasis on the basics of Mendelian and molecular genetics.
	CO-2. Familiar students with chromosome organization, linkage,
	chromosome mapping, chromosome aberrations, mutations and
	microbial genetics
Paper: BIOT-Sem-III-III-T	CO-1. To understand general aspects of immune system like
Immunology-I	different components of the immune system. Generation and
	functions of these components,
	CO-2. Knowledge of basic immunological techniques.
Paper: BIOT-Sem-III-IV-T	CO-1.To introduces the students with fundamentals and
Plant Tissue Culture	applications of plant tissue culture.
	CO-2. This course will expose students to the methods of
	culturing, maintaining and regenerating plants species
Paner BIOT -Som-III-V-T	CO-1 The major emphasis of this course is to introduce the
Animal Call Cultura	students to the field of Animal cell-culturing and its importance to
	mankind
	CO_2 The students will also learn the techniques involved in
	animal cell culture
	Semester-IV
Paner: BIOT-Sem-IV-I-T	CO-1 This course will introduce students to the principles of
Immunology-II	advanced Immunology both at the molecular and cellular
	levels
	10,0015.

Paper: BIOT-Sem-IV-II-T Biophysical and Biochemical Techniques	CO-1. To enable the students learn important tools and techniques based on biophysical and biochemical principles so that they can understand application of these techniques in biotechnology.
Paper: BIOT-Sem-IV-III-T Plant Biotechnology	CO-1. The objective of this course is to familiarize the students with different aspects of plant molecular biotechnology and techniques for plant genetic manipulations
Paper: BIOT-Sem-IV-IV-T Animal Biotechnology	CO-1. The major emphasis of this course is to introduce the students to the advances in the field of Animal and their importance to mankind.
Paper: BIOT-Sem-IV-V-T Agro & Industrial Biotechnology	CO-1. This course will introduce students to the concepts of agriculture as industry.CO-2. This course will help students to understand the application of fundamental concepts like transgenic approaches to improve crop plants, microbial culture maintenance, and metabolite purification at industrial level.
	Semester-V
Paper: BIOT-Sem-V-I-T Molecular Biology	CO-1. To make the students understand the fundamental concepts this includes DNA structure, replication, transcription, translation, mutation, gene regulation.
Paper: BIOT-Sem-V-III-T Environmental Biotechnology Paper: BIOT-Sem-V-III-T Bioinformatics	 CO-1.The course focuses on an introduction to environment, major threats to environment by various polluting agents and the remedies for the same, incorporating design and monitoring of waste treatment processes. CO-2.As well as learning environmental technology fundamentals, with special focus on biological treatment processes, environmental management. CO-3.The course is use of biotechnology to design cleaner manufacturing processes and to solve pollution problems. CO-4. It is ideal for under graduates just embarking on their career, or scientists and engineers who have been working for a few years and wish to develop their career in this direction. CO-1. Learn introduction to Bioinformatics, Biological Databases and Sequence analysis
Diomiormatics	CO-2. The course will give introduction to sequence alignment and
	its application
Paper: BIOT-Sem-V-IV-T Enzymology	CO-1. History of enzyme technology.CO-2. Study various factors affecting enzyme activity.CO-3. Gain information in enzyme applications in industry.
Summer Training	CO-1. Exposure of real time work in labs and industries.
Semester-VI	

Paper: BIOT-Sem-VI-I-I	CO-1.Genetic engineering refers to the process of manipulating the
Genetic Engineering	characteristics and functions of the original genes of an
	organism.
	CO-2. The objective of this process is to introduce new
	physiological and physical features or characteristics
	CO-3. The students will learn how the genes can be cut and paste
	from one organism to another and what is its implications.
Paper: BIOT-Sem-VI-II-T	CO-1. Learn fundamental principles of biochemical engineering.
Bioprocess Engineering and	CO-2. Sterilize air and media.
Technology	CO-3. Handle downstream processing.
Paper: BIOT-Sem-VI-III-T	CO-1. History and scope of Food biotechnology
Food Biotechnology	CO-2. History and scope of Food biotechnology
	CO-3.Know and analyze food adulterants and food additives
	CO-4. Food and water borne diseases
Paper: BIOT-Sem-VI-IV-T	CO-1.Study computer tools for sequencing projects: Genome
Genomics and proteomics	sequence assembly software
	CO-2. Managing and Distributing Genome Data: Web based
	servers and softwares for genome analysis
	CO-3. Introduction to protein structure, Chemical properties of
	proteins. Physical interactions that determine the property of
	proteins
Paper: BIOT-Sem-VI-V-T	CO-1.Use the current intellectual property system to protect and
Intellectual property rights	commercialize their biotechnological invention.
and Ethical Issues in	CO-2. This course also covers the ethical issues, controversies and
Biotechnology and	social-ethical impact of biotechnology on society.
Entrepreneurship	

Department of Basic Sciences

Programme Outcomes: B.Sc (Medical)

Department of Basic	After successful completion of three year degree program in B.Sc
Sciences	(Medical) a student should be able to;
Programme Outcomes	 PO-1. Students will get knowledge about life of animals diversity & development PO-2. Students will have knowledge about evolution of non chordates & chordates on earth& will learn the technique of Aquaculture practices PO-3. To inculcate the hands on experience among students through field surveys and practical demonstrations. PO-4. To inculcates the scientific temperament in the students and outside the scientific community. PO-5. The student will understand the periodic properties, elements & their properties, synthesis & chemical reactions of organic compounds, thermodynamics, electrochemistry, photochemistry,
	basics of quantum mechanics, spectroscopic techniques-UV-Vis, IR, ¹ H-NMR, carbohydrates, proteins, organometallic compounds, bio-inorganic chemistry
P	rogramme Specific Outcomes
Programme Specific Outcomes	 PSO-1. Students know about different types of lower & higher plants their evolution in from algae to angiosperm &also their economic and ecological importance. PSO-2. Genetics provides knowledge about laws of inheritance, various genetic interactions, chromosomal abrasions & multiple alleles. PSO-3. Student can describe morphological & reproductive characters of plant and also identified different plant families and classification. PSO-4.To create awareness about cultivation, conservation and sustainable utilization of biodiversity. PSO-5.To know advance techniques in plant sciences like tissue culture, Phytoremediation, plant disease management, formulation of new herbal drugs etc. PSO-6. Students able to start nursery, mushroom cultivation, bio fertilizer production, fruit preservation and horticultural practices. PSO-7. Learned the organic reactions, their mechanisms, periodic table & details of different elements, concepts of hermodynamics laws, electrochemistry, photochemistry, basics of quantum

mechanics, spectroscopic techniques-UV-Vis, IR, ¹ H-NMR, carbohydrates, proteins, organometallic compounds, bio-inorganic
chemistry Learned the organic reactions, their mechanisms, periodic
table & details of different elements, concepts of hermodynamics
laws, electrochemistry, photochemistry, basics of quantum
mechanics, spectroscopic techniques-UV-Vis, IR, ¹ H-NMR, carbohydrates, proteins, organometallic compounds, bio-inorganic
chemistry
PSO-8 students learned the animal diversity of major phyla of
invertebrates and vertebrates, basic concepts of cell biology,
evolution, ecology, genetics and development biology.

Course Outcomes B.Sc. (Medical)		
Semester-I		
Course	Outcomes	
	After completion of these courses students should be able to;	
(Biodiversity& Cell	CO-1. Know about the life of lower invertebrates	
biology-1 ZOO101)	CO-2. Have an idea about the transmission of diseases by	
Paper-I	vectors and their life cycle	
	CO-3. Students will get idea of principles and working of	
	various type of microscopes	
	CO-4. Structure and function of various cell organelles	
	CO-5. Economic importance of various organisms.	
(Bioldiversity & Cell	CO-1. Will study the distinguishing features of helminthes.	
biology-11 Zoo-102)	CO-2. Will study the life history of Fasciola and Taenia.	
Paper-II	CO-3. Detail study of earthworm anatomy and physiology.	
	CO-4. Types of cancer and its causes.	
	CO-5. Study of hummoral immunity and organs of immune system.	
	CO-1. Knowledge of classification and identification of	
Zoology Lob	invertebrates through specimens.	
Zoology Lab	CO-2. Knowledge of microscopic animals through slides.	
	CO-3. Basic knowledge of SEM, TEM and gel electrophoresis	
	through charts.	
	CO-1. To make students aware about the diversity in various life	
Plant Diversity-I	forms of plant kingdom.	
	CO-2. A systematic study of algae and fungi included in this group	
	provide students an insight about the heterotrophic and autotrophic	
	modes of nutrition in the plant kingdom	

	CO-3. To form the basis of any advance study in Botany
	CO-1. To provide students an insight into structural and
Cell Biology	cytological basis of functional differentiation in plants
	CO-2. To provide an idea about cellular, molecular and
	biochemical basis of prokaryotic and eukaryotic diversity
	of life forms

Paper A	CO-1To understand the atomic structure i.e.shapes of different
Inorganic Chemistry	orbitals, different principles for filling electrons, Schrodinger wave
(30 Hrs)	equation
	CO-2.To understand the Periodic Properties
	CO3. To understand the Chemistry of Noble Gases
	CO-4. To understand the chemistry of s-Block Elements
	CO-5. To understand the Valence bond theory
Paper B	CO-1.Learned thecore concepts of organic chemistry i.e. resonance,
Organic Chemistry	hyperconjugation, inductive effect etc. and their application.
(30 Hrs)	CO-2. Learned the Mechanism of Organic Reactions, intermediates
	formed during reactions
	CO-3Learned the nomenclature, synthesis and chemical reactions of
	Alkanes and Cycloalkanes
	CO-4 Learned the Stereochemistry of Organic Compounds including
	optical isomerism, geometric isomerism and
	conformationalisomerism
Paper C	CO-1.Learned the Mathematical Concepts and Evaluation of
Physical Chemistry	Analytical Data:
(30 Hrs)	CO-2.Understand the behaviour of real & ideal gas & how to apply
	Maxwell distribution on molecular velocities & find out collision
	diameter, mean free path.
	CO-3. Learned to determine rate constants and half-life for 0, 1st and
	2nd order reactions from experimental datasets
	CO-4. Learned to determine the order of reactions with respect to
	given species by applying the initial rate method and isolation
	method, express the rate law from the orders with respect to the
	species involved
	CO-5.Learned the theories of Chemical Kinetics, Catalysis and
	general characteristics, Michaelis Menten equation for enzyme
	catalysis
Cnemistry Lab	CO-1.Learned the volumetric titrations involving acid-base, KMnO4
	alla N201207 CO2 Loomad the OLIALITATIVE ANALVEIS of Sometimizers
	Analysis action analysis concretion and identification of ions from
	ranalysis, cation analysis, separation and identification of ions from
DBC	groups 1, 11, 111, 1V, V and VI.
PBU Con Dunishi	of modernism
Gen Funjadi	of modernism

CO2: Students get literary sense and comprehension of the subject CO3: Students know one act play as a form of literature

Semester-II	
Course	Outcomes After completion of these courses students should be able to;
Biodiversity&	CO-1. Know about the life of higher invertebrates
Ecology-I ZOO 201	CO-2. Have an idea about the basics of ecology.
	CO-3. Students will get idea of biogeochemical cycles, adaptations in animals.
(Bioldiversity	CO-1. will study the detailed study of molluscs and echinodermates.
&Ecology-II Zoo-202)	Will have an idea about natural resources and their conservation.CO-3.will study basic concepts of wild life conservation and environment degradation.CO-4. Students will also get knowledge of classification and economic importance of various specimens of mollusks and echinodermates.
Zoology Lab	CO-1. To give knowledge of identification and classification of various invertebrates through specimens and slides.

Paper A	CO-1. Learned the Ionic Solids – Concept of close packing., Ionic
Inorganic Chemistry	structures, radius ratio rule and coordination number, lattice defects
(30 Hrs)	and semiconductors
	CO-2. Learned the Lattice energy and Born-Haber cycle, solvation
	energy and solubility of ionic solids, polarizing power and
	polarisability of ions, Fajan's rule,
	CO-3Learned thevalence bond and band theories
	CO-4 Learned the chemistry of p-Block Elements
Paper B	CO-1.Able to understand nomenclature, synthesis and mechanisms of
Organic Chemistry	chemical reactions of Alkenes, Cycloalkenes
(30 Hrs)	CO-2 Able to understand nomenclature, synthesis and mechanisms of
	chemical reactions of Dienes and Alkynes
	CO-3 Able to understand nomenclature, synthesis and mechanisms of
	chemical reactions of Bemzene, Huckel's rule etc.
	CO-4 Able to understand nomenclature, synthesis and mechanisms of
	chemical reactions of Alkyl and Aryl Halides and SN^{1} & SN^{2}
	mechanisms
Paper C	CO-1 Students understand the concept of system and surroundings,
Physical Chemistry	heat, work, path functions & enthalpy, Heat capacity & inversion
(30 Hrs)	temperature
	CO-2Learned to determine the kirchoff's equation, standard state,
	Hess's law of constant heat summation & it's application.

	CO-3 Understand the concept of sols, gels & emulsions
	CO-4 Learned the determine the colligative properties of ideal & non
	ideal solutions.
Chemistry Lab	CO-1.Learned the the Crystallization of different copounds
	CO2.Learned to determine the viscosity of different solutions
	CO3. Learned to determine the surface tension of different solutions
	CO4: Learned to determine of melting points of compounds.
PBC	CO1: The students know story as a form of literature
Gen Punjabi	
	CO2: The students get the basic knowledge of linguistics
	CO3: Understanding of the nature of subject in comparison to
	secondary level
	
	CO-1. To provide an idea about how different plant life forms have
Plant Diversity-II	evolved from simpler to complex ones
	CO-2. A sequential study ranging from Bryophytes (the amphibians
	of plant kingdom) and then to Pteridophytes -the first vascular land
	plants, would enable students to have a broad prospective of
	evolutionary trends in plant kingdom.
	CO-1. To provide an insight into genetic basis of such evolutionary

	functional differentiation of plants.
	CO-2. To describe important role of genetics in structural and
Genetics	trends in plants
	CO-1. To provide an insight into genetic basis of such evolutionary

SEMESTER-III

Course	Outcomes After completion of these courses students should be able to;
Biodiversity (chordates)	CO-1. Students will gain knowledge about the evidences of
& Evolution-1	organic evolution
ZOO301)	CO-2. Various theories of evolution as lamarkism, Darwinism, modern theory of evolution
	CO-3. Anatomy and physiology of Labeo
	CO-4. Origin of life concept
	CO-5. Physiology and anatomy of frog as representative of amphibians

Biochemistry and	CO-1. Will be able to grasp classification of enzymes
Physiology-1 ZOO302)	CO-2. Will have knowledge of Carbohydrate metabolism
	CO-3.Regulation and processes of absorption&enzymatic digestion
	CO-4. Transport of oxygen and carbon dioxide in human
	body
	CO-5.Origin and regulation of heartbeat.
	CO-1. Students have practical knowledge of identification
	classification of museum specimens.
	CO-2. Learned histology through slides.
Zoology Lab	CO-3. In hand training of practicals of blood parameters and
	physiology.
Diversity of Seed Plants	CO-1. To provide students a fair idea about the general features,
and their Systematics-I	economic importance and study of fossil as well as living
C C	gymnosperms.
	8,F
	CO-1. To provide idea about basic body plan and diversity in
Structure, Development	flowering plant forms.
and Reproduction in	CO-2. To provide knowledge about vegetative and reproductive
Flowering Plants-I	morphology of flowering plants and to familiarize the students with
riowering I lants-1	plants beging the applesed souds
	prants bearing the enclosed seeds.

Inorganic Chmistry (30	CO-1 Learned the chemistry of elements of First Transition Series
	CO-2 Learned the chemistry of elements of Second and Third
	Transition Series
	CO-3 The students will be able to explain the fundamental concepts
Hrs)	in coordination chemistry of transitionmetals, Werner's
	coordination theory, effective atomic number concept, chelates,
	nomenclature & isomerism in coordination compounds
	CO-4 Valence bond theory of transition metal complexes
	CO-1. Able to describe different classes of alcohols, their synthesis
	and chemical reactions.
	CO-2. Able to write down structure of phenol and phenoxideion and
Organic Chemistry	their synthesis & chemical reactions.
(30 Hrs)	CO-3. Able to write down structure, synthesis and chemical
	reactions of aldehydes & ketones
	CO-4. Able to understand different reactivities of aldehydes &
	ketones
	CO-1.Students understand structure of liquids in qualitative
	discription & differentiate between solid, liquid & gas & also
Physical Chamistry	understand thermography & seven segment cell of liquid crystals
(30 Hrs)	CO-2.Students will derive law of mass of action & reaction isotherm
(30 1118)	CO-3. Student will understand the carnot cycle & their efficiency &
	thermodynamic scale of temperature, Gibbs function, Helmholtz
	function

	CO-4.Understand the Concept of Entropy
Chemistry Lab	CO-1. Volumetric Analysis
	CO-2. Gravimetric Analysis
	CO-3.To determine the solubility of benzoic acid at different
	temperatures and to determine ΔH of the dissolution process
	CO-4.To determine the enthalpy of neutralization, enthalpy of
	ionizationn and ionization constant of acid/base.
	CO1: Understanding of poetry and essay type questions
	CO2: Understanding of Letter Writing
English	CO3: Understanding of Grammar: Narration, Preposition,
(Compulsory)	Conjunctions, Synonyms
	CO4: Students will be able to translate Hindi to English.

SEMESTER-IV

Course	Outcomes
	After completion of these courses students should be able to;
(Biodiversity(chord	CO-1. Gain knowledge of anatomy & physiology of Uromastrix
ates)& Evolution-11	CO-2. Poisonous & Non Poisonous snakes difference
ZOO301)	CO-3. Flight adaptations in birds and detailed study of pigeon
	CO-4. Detailed study of rats
	CO-5. Knowledge about dentition in mammals
(Biochemistry and	CO-1.Study of lipid metabolism and lipogenesis
Physiology-II	CO-2. Will know how protein is metabolized in body
ZOO302)	CO-3.Process of urine formation in humans
Paper-II	CO-4.Structure of neuron and resting potential
	CO-5. Detailed study of endocrine system.
	CO-1.students get knowledge of histology, museum specimens
Zoology lab	and physiology experiments.
	CO-2. Learned osteology through identification of bones of
	various animals.

	CO.1 Understand the Chemistry of Lanthanide Elements including
	co-i Understand the chemistry of Landiande Elements including
	electronic structure, oxidation state, ionic radii and anthanide contraction,
	complex formation, occurrence and isolation of lanthanide compounds.
	CO-2: Understand the Chemistry of Actinides including general features,
	chemistry of separation of Np, Pu and Am from U, and similarities
Paper A	between the later actinides and the later lanthanides.
Inorganic Chmistry	CO-3: Arrhenius, Bronsted-Lowry, the Lux-Flood, solvent system and
(30 Hrs)	Lewis concepts of acids and bases
	CO-4:Use of redox potential data – analysis of redox cycle, redox
	stability in water – Frost, Latimer and Pourbaix diagrams and Principles
	involved in the extraction of the elements.
	CO-5 Physical properties of a solvent, types of solvents and their general
	characteristics, reactions in non-aqueous solvents

	CO-1. Able to recognize structures of acid halides, esters, amides,
	acidanhydrides and order of reactivity of different carboxylic
Organic	acidderivatves.
Chemistry	CO-2 Able to write the nomenclature, synthesis and chemical reactions of
	Ethers, Epoxides
	CO-3 Understand the concepts of Fats, Oils, Saponification value, iodine
	value, acid value and Soaps&synthetic detergents
	CO-4: Able to write the nomenclature, synthesis and chemical reactions
	ofnitroalkanes, nitroarenes, aliphatic & aromatic amines
	CO-5 The students will be able to introduce about basic chemistry of
	theheterocyclic and particular properties and reactions for the most
	important heterocyclic
Physical	CO-1 Students will derive the Gibbs phase rule, phase equilibria of one
Chemistry	component system & two component system, partially miscible liquids
(30 Hrs)	CO-2 Students understand electrical transport means condution in metals
	& electrolytic solutions, migration of ions, kohlrausch law, weak &
	strong electrolytes, Debye huckle onsager equation
	CO-3 Determine the electro motive force of cell, S.H.E, electrode
	potential
	CO-4 Understand about electrolytic cell & galvanic cell
Chemistry Lab	CO-1. Learned the Extraction of caffeine from tea leaves.
	CO-2. Learned the Detection of elements (N, S and halogens) and
	functional groups in simple organic compounds.
	CO-3. Learned the Determination of Rfvalues and identification of
	organic compounds.
	CO-4Learned theSeparation of isometric mixture of Ortho and
	paranitroaniline using hexane and ethyl acetate (8.5 : 1.5) by thin layer
	chromatography
	CO1: Understanding of poetry and prose
English	CO2: Understanding of paragraph writing
(Compulsory)	CO3: Understanding of Grammar - Voice, Determiners, Modals,
	Antonyms

Semester-V

Course	Outcomes After completion of these courses students should be able to;
Developmental biology Paper-I(ZOO-501)	 CO-1. Study about the process of gametogenesis & egg maturation CO-2. Parthenogenesis & fertilization CO-3. Cell cell interactions CO-4. Idea about the foetal membranes & their formation CO-5.Mammalian placenta types

(Applied zoology-1	CO-1.Study about components of aquaculture
Inland fisheries	CO-2. Will have knowledge about features of saltwater fishes, air
&Aquaculture	breathing and major carps
ZOO-502C)	CO-3.Exotic fishery and their impact
Paper-II	CO-4. Process of Induced breeding & its impact on Indian fauna
	CO-5. Pond culture management
Zoology Lab	CO -1. Students learned practical knowledge of developmental
	stages of frog and chick through slides.
	CO-2. Learned features of fishes through specimens.
	CO-3. Knowledge of identification of fishes, aquatic weeds.
Paper-I	CO-1. To familiarize the students with various concepts of functions
Plant Physiology-I	and metabolism of plants.
	CO-2. To enable the students to correlate structural diversity of various
	plant forms with functional differentiation and its biological aspects
	including biological nitrogen fixation and mineral nutrition.
	CO-1. To make students aware about the role of environment in causing
	structural and functional variation in plants.
Plant Ecology	CO-2. To provide the students with knowledge of basic concepts of
	ecology to solve the present day problems of varied nature like pollution,
	Global Warming etc. which are directly or indirectly related to ecology.
	CO-1. Learned the crystal – field theory, crystal field splitting in
	octahedral, tetrahedral and square planar complexes, factors affecting the
	crystal – field parameters, Spectro chemical Series
Inorganic Chmistry	CO-2. Learned the thermodynamic and Kinetic stability of metal
(30 Hrs)	complexes and factors affecting the stability, substitution reactions of
	CO-3 Understand the nomenclature classification preparation
	properties, bonding of different organometallic compounds
	CO-4. Understand the metalloporphyrins of haemoglobin and
	myoglobin, biological role of alkali and alkaline earth metal ions.
	Nitrogen fixation.
	CO-1. Learned the Ultraviolet (UV) absorption spectroscopy
	CO-2 Learned the Infrared (IR) absorption spectroscopy
Organic Chemistry	CO-3. Learned the Proton Nuclear magnetic resonance (NMR)
(30 Hrs)	spectroscopy.
	CU-4. Learned the synthesis and chemici reactions of Carbonydrates such
	as Glucose, Fructose. Structures of some disaccharides,
	monosaccharides. Haworth projection formulae etc
	CO-1 Learned to derive plancks radiation law. Compton effect
	photoelectric effect, uncertainty principle, schrodinger wave equation for
	H atom, physical interpretation of wave function, particle in one
Physical	dimensional box, quantum number, radial & angular wave function
Chemistry	CO-2Learned the MOT, criteria for forming MO from AO, valence bond
	16 P a g e

	model
	CO-3 Learned the laws of photochemistry, Jablonski diagram for various
	processes
	CO-4 Learned the qualitative discription of fluorescence, phosphoresce,
	non radiative processes, quantum yield, energy transfer processes
	CO-1.Learned the Preparation of sodium trioxalatoferrate (III),
	Na3[Fe(C2O4)3] and determination of its composition by
	permaganometry.
Chemistry Lab	CO-2 Learned the Preparation of copper tetraammine complex
	[Cu(NH3)4]SO4.
	CO-3Learned the Preparation of cis-and trans-bisoxalatodiaqua chromate
	(III) ion.
	CO-4 Learned the Separation and estimation of Mg(II) and Fe(II)
	CO-5 Learned to determine the strength of the given acid, solubility and
	solubility product of a sparingly soluble electrolyte, ionization constant
	etc. Conductometrically
	CO-6 Learned to find out distribution constant of iodine and benzoic
	acid.
Semester-VI	

Semester-vi	
Course	Outcomes After completion of these courses students should be able to:
	After completion of these courses students should be able to,
Genetics	CO-1. Mendallian laws and multiple alleles
Paper-I(ZOO-	CO-2. Will study Inheritence in drosophilla
501)	CO-3. About the process of linkage and crossing over
	CO-4. Mutations and crossing over
	CO-5. Recombination DNA and genetic coding
(Applied zoology-	CO-1Knowldge about Fishing gears types
1 Inland fisheries	CO-2. Mono and polyculture
&Aquaculture –II	CO-3.Integrated fish farming
ZOO-502C)	CO-4.Pearl culture knowledge
Paper-II	CO-5. Prawn culture technique & marketing of fish
Zoology lab	CO-1 Training to test quality of water. CO-2 Practical demonstration of crosses of genetics CO-3 Knowledge of dermatoglyphics.
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Paper-I Plant Physiology-II	CO-1. To familiarize the students with growth and metabolic processes of the plants.CO-2. To provide an idea about plant development, differentiation and their regulatory mechanism along with basic concepts in tissue culture.
Paper-II Economic Botany	CO-1. To give an insight into plant wealth such as medicinal plants; crop plants; beverages; spices; condiments; sugar; fiber; pulp & oil yielding plants of commercial & economic importance.

Paper A Inorganic	CO-1. Learned the Silicones and phosphazenes as examples of inorganic polymers, nature of bonding in triphosphazenes
Chmistry (30	polymens, nature of bonding in triphosphazenes
Hrs)	CO-2.Learned thehard and soft Pearson's HSAB concept, acid-base strength and hardness and softness. Symbiosis, theoretical basis of hardness and softness, electronegativity and hardness and softness
	CO-3.Learned theElectronic Spectra of Transition Metal Complexes, types of electronic transitions, $L - S$ coupling, selection rules for d-d transitions, spectroscopic ground states, Orgel – energy level diagram
	CO-4. Learned the types of magnetic behaviour, methods of determining magnetic susceptibility, spin-only formula. Correlation of μ_s and μ_{eff} values, orbital contribution to magnetic moments, application of magnetic moment data for 3d-metal complexes.
Paper B	CO-1. Learned the Amino Acids, Peptides, Proteins and Nucleic Acids
Organic	
Chemistry	CO-2. Learned the Addition or chain-growth polymerization, Ziegler –
(30 Hrs)	Natta polymerization, Condensation or step growth polymerization, Natural and synthetic rubbers.
	CO-3. Learned the acidity of $\dot{\alpha}$ -hydrogens, alkylation of diethyl malonate and ethyl acetoacetate, Claisen condensation,keto-enol tautomerism of ethyl acetoacetate. Alkylation and acylation of enamines.
	CO-4. Learned the formation, structure and chemical reactions of The Grignard reagents, Organozinc &Organolithium Compounds
Paper C Physical	CO-1 Learned the space lattice, unit cell, Miller indices, laws of crystallography & symmetry elements
(30 Hrs)	CO-2 Learned to determination of crystal structure, derive Bragg equation,

r	
	thermal & photochemical reactions in solid state
	CO-3 Learned the electromagnetic radiation, degrees of freedom, energy levels of a rigid rotor, apply selection rules to predict observed spectroscopic transitions
	CO-4 Learned the harmonic & anharmonic oscillator, Raman spectrum, IR spectrum, concept of polarizability & selection rules
Chemistry Lab	CO-1. Hands on training Column Chromatography and Separation of fluorescein and methylene blue&Separation of leaf pigments from spinach leaves
	CO-2. Hands on experience of Aliphatic & Aromatic electrophilic substitution, oxidation, reduction etc.
	CO-3 Learned the Stereochemical study of Organic Compounds via Models: R and S configuration of optical isomers&E, Z configuration of geometrical isomers
	CO-4 Learned theConformational analysis of cyclohexanes and substituted cyclohexanes via ball and stick models.

Programme Outcomes: B.Sc (Non-Medical)

Department of	After successful completion of three year degree program
	in Physics a student should be able to:
Basic Sciences	
Programme Outcomes	PO-1. Do problem analysisin Physics: Identify formulate and analyze
	PO-2. Understand conceptually problems in nature
	PO-3. Have hands on experience of Physics concepts through respective practicals
	PO-4.The student will understand the periodic properties, elements & their properties, synthesis & chemical reactions of organic compounds, thermodynamics, electrochemistry, photochemistry, basics of quantum mechanics, spectroscopic techniques-UV-Vis, IR, ¹ H-NMR, carbohydrates, proteins, organometallic compounds, bio-inorganic chemistry PO-5. Students gain knowledge in foundational areas of mathematics. It develop mathematical thinking. Students will be able to apply mathematical knowledge and be able to solve mathematical problems using technology.
	Programme Specific Outcomes
Programme Specific Outcomes	PSO-1 Have proficiency in mechanics of problems
	PSO-2. Understand Vibrations and wavesin nature
	PSO-3. Have an understanding of concepts involving electricity and magnetism, optics, quantum mechanics, statistical physics, condensed matter physics, electronics and nuclear physics
	PSO-4. Learned the organic reactions, their mechanisms, periodic table & details of different elements, concepts of hermodynamics laws, electrochemistry, photochemistry, basics of quantum mechanics, spectroscopic techniques-UV-Vis, IR, ¹ H-NMR, carbohydrates, proteins, organometallic compounds, bio-inorganic chemistry
	PSO-5. A student should get a relational understanding of mathematical concepts and should be able to follow the concepts of mathematical reasoning. Aware the student of history of mathematics and hence of its past, present and future role as part of our culture.

Course Outcomes B. Sc (N.M.)	
	Semester-I
Course	Outcomes After completion of these courses students should be able
	to;
Paper A	CO-1. Have an understanding of coordinate systems
Mechanics I	CO-2. Understanding of forces in nature in particular central
(30 Hrs)	forces
	CO-3. Understanding of collisions in lab and centre of mass
	CO-4. Understanding of a system of particles
Paper B	CO-1.Understanding of different types of pendulum
Vibrations,	CO-2. Understand SHM, damped and forced mechanical oscillations
waves &E.M.	CO-3. Understand the phenomenon related to mechanical vibrations and
theory-I	waves, sound waves, EM waves, optics and gravitational waves CO_{-4} Overall an understanding that phenomenon arising from different
(30Hrs)	physical systems can be described with mathematics
Paper C	CO-1. Understanding of Vector Calculus
Electricity and	CO-2. Have an understanding of Stoke's theorem, Gauss
Magnetism-I	Divergence theorem etc.
(30 Hrs)	CO-3. Learn concepts about work and potential difference
	CO-4. Have an understanding of polarization of matter
Physics	CO-1. Have hands on experience about concepts related to mechanics
Practicals	CO2. Training in measuring instruments like Vernier Calliper, Screw
	Gauge, Spherometer etc.,
	CO3. Experience in Pendulums like torsional, bar, Kater's pendulum
	CO4: Experimental understanding of Melde's experiment. Young's
	modulus determination, Stoke's method etc.
Paper A	CO-1To understand the atomic structure i.e.shapes of differentorbitals,
Inorganic	different principles for fillingelectrons, Schrodinger wave equation
Chmistry(30	CO.2 To understand the Periodic Properties
Hrs)	co-2.10 understand ther chodic 1 toperties
	CO3. To understand the Chemistry of Noble Gases
	CO-4. To understand the chemistry of s-Block Elements
	CO-5. To understand the Valence bond theory
Paper B	CO-1.Learned thecore concepts of organic chemistry i.e. resonance,
Organic	hyperconjugation, inductive effect etc. and their application.
Chemistry	
(30 Hrs)	CO-2. Learned the Mechanism of Organic Reactions, intermediates

formed during reactions
CO-3Learned the nomenclature, synthesis and chemical reactions of Alkanes and Cycloalkanes
CO-4 Learned the Stereochemistry of Organic Compounds including optical isomerism, geometric isomerism and conformationalisomerism
Data:
CO-2Understand the behaviour of real & ideal gas & how to apply Maxwell distribution on molecular velocities & find out collision diameter,mean free path.
CO-3 Learned to determine rate constants and half-life for 0, 1st and 2nd order reactions from experimental datasets
CO-4 Learned to determine the order of reactions with respect to given species by applying the initial rate method and isolation method, express the rate law from the orders with respect to the species involved CO-5Learned the theories of Chemical Kinetics, Catalysis and general characteristics, Michaelis Menten equation for enzyme catalysis CO-1 Learned the Volumetric titrations involving acid-base. KMnO4 and
K2Cr2O7 CO2. Learned the qualitative analysis of Semimicro Analysis, cation analysis, separation and identification of ions from groups I, II, III, IV, V and VI.
CO-1. Determine if a given matrix is diagonalizable. CO-2. Solve the matrix equation $Ax = b$ using row operations and matrix
operations CO-3. Find the determinant of a product of square matrices, of the transpose of a square matrix, and of the inverse of an invertible matrix CO-4. Find the characteristic equation, eigenvalues and corresponding eigenvectors of a given matrix.
CO-1. Students will be able to interpret a function from an
 algebraic, numerical, graphical perspective and extract information relevant to the phenomenon modeled by the function. CO-2. Students will be able to verify the value of the limit of a function at a point using the definition of the limit. CO-3.Students will be able to understand the consequences of intermediate value theorem for continous function.

	CO-4. Students will be able to show wheather function is
	differentiable at a point.
	CO-5 Students will differentiate exponential logarithmic
	trigonometric and inverse trigonometric functions.
Paper III	CO-1, understand geometrical terminology for angles, triangles.
Plane geometry	quadrilaterals and circles.
	CO-2 measure angles using a protractor.
	CO-3. use geometrical results to determine unknown angles.
	CO-4. recognise line and rotational symmetries.
	CO-5. find the areas of triangles, quadrilaterals and circles and shapes based on these
PBC	CO1: By reading modern poetry student is able to understand issues of
Gen Puniabi	modernism
	CO2: Students get literary sense and comprehension of the subject
	CO3: Students know one act play as a form of literature
English	CO1: Understanding of poetry and prose
(Compulsory)	CO2: Understanding of paragraph writing
	CO3: Understanding of Grammar - Voice, Determiners, Modals,
	Antonyms
Paper A	CO-1. Understand concept of rigid body motion and it's
Niechanics II	applications like motion of gyroscope
(30 Hrs)	CO-2. Student's come to know about Galelian transformation and
	Focault's pendulum
	CO-3. To understand concepts of special theory of relativity
	CO-4. Understanding of concepts of mass energy equivalence,
	twin paradox etc.
Paper B	CO-1. To understand waves in physical media
Vibrations,	CO-2. Understand reflection and transmission of waves in a string
waves &E.M.	CO-3. Understand Maxwell's equations
theory-II	CO-4. Understand reflection and transmission of EM waves
(30 Hrs)	
Paper C	CO-1.To solve the problems for current and current density and to know
Electricity and	the Physics following magnetic properties of materials.
Magnetism-II	CO-2. To determine the magnetic field due to various conducting
(30 Hrs)	distribution carrying current.
	field following laws of induction further leading to Maxwell's equations. CO-4. Understanding of electromagnetic induction

Physics	CO-1. Hands on training for measurement of resistance, voltage, current
Practicals	and electric energy
	CO2. Measurement of magnetism, electromagnetic induction, low
	resistance measurement etc.
	CO3. Understanding of LCR circuits, resonant circuits etc.
	CO4: Measurement of capacitance, self inductance etc.
Paner A	CO-1 Learned the Ionic Solids – Concept of close packing Ionic
Inorganic	structures radius ratio rule and coordination number lattice defects and
Charaitatara (20	services, factors factor factor and coordination number, factore defects and
Chmistry(30	semiconductors
Hrs)	CO 2 Learned the Lettice energy and Porn Heber evale solution
	CO-2. Learned the Lattice energy and Born-Haber Cycle, solvation
	energy and solubility of folic solids, polarizing power and polarisability
	of ions, Fajan's rule,
	CO-3Learned thevalence bond and band theories
	CO-4 Learned the chemistry of p-Block Elements
Paper B	CO-1.Able to understand nomenclature, synthesis and mechanisms of
Organic	chemical reactions of Alkenes, Cycloalkenes
Chemistry	
(30 Hrs)	CO-2 Able to understand nomenclature, synthesis and mechanisms of
	chemical reactionsofDienes and Alkynes
	CO-3 Able to understand nomenclature, synthesis and mechanisms of
	chemical reactions of Bemzene, Huckel's rule etc.
	CO-4 Able to understand nomenclature, synthesis and mechanisms of
	chemical reactions of Alkyl and Aryl Halides and SN^{1} & SN^{2}
	mechanisms
Paper C	CO-1 Students understand the concept of system and surroundings, heat
Physical	work, path functions & enthalpy, Heat capacity & inversion
Chemistry	temperature
(30 Hrs)	CO-2Learned to determine the kirchoff's equation, standard state, Hess's
	law of constant heat summation & it's application.
	CO-3 Understand the concept of sols, gels & emulsions
	CO-4 Learned the determine the colligative properties of ideal & non
	ideal solutions
Chemistry Lab	CO-1 Learned the theCrystallization of different conounds
	Configuration of unrefer copounds
	CO2 Learned to determine the viscosity of different solutions
	CO2.12curred to determine the viscosity of different solutions
	CO3 Learned to determine the surface tension of different solutions
	CO3. Examed to determine the surface tensionor different solutions
	CO4: Learned to determine of molting points of compounds
Donon I	CO 1 learned how to use fur demental theorem of all along in weal 1'f
raper I	CO-1.learned now to use rundamental theorem of algebra in real life.
Theorey of	CO-2.learned basic concept of descarte's rule of sign.

education	CO-3. Learned how to solve cubic and biquadratic equations using
	cardon's, descarte's and ferrari's method.
Paper II	CO-1. The student is expected to learn about the basic principles of multi-
Calculus -II	variable calculus with proofs.
	CO-2. To have full knowledge of calculus involving the fundamental tools such as continuity and differentiability.
Paper III Solid geometry	CO-1.understand geometrical terminology for angles, triangles, quadrilaterals and Sphere
	CO-2. measure angles using a protractor.
	CO-3. use geometrical results to determine unknown angles.
	CO-4. recognise line and rotational symmetries.
	CO-5. find the areas of triangles, quadrilaterals and sphere and cone.
PBC	CO1: The students know story as a form of literature
Gen Punjabi	CO2: The students get the basic knowledge of linguistics
	CO3:Understanding of the nature of subject in comparison to secondary
	level
English	CO1: Understanding of poetry and essay type questions
(Compulsory)	CO2: Understanding of Letter Writing
	CO3: Understanding of Grammar: Narration, Preposition, Conjunctions,
	Synonyms COA : Students will be able to translate Hindi to English
	Semester-III
Panar A	CO_1 Understanding of fundamentals of Statistical Physics
Statistical Physics	CO-2 To understand Maxwell Boltzmann statistics
and	CO-3. Understand Bose Einstein Statistics and Fermi Dirac statistics
	CO-4. To explain statistical physics and thermodynamics as logical
I nermodynamics	consequences of the postulates of statistical mechanics
(30hrs)	
Paper B	CO-1. To understand the concept of interference and its
Optics and Lasers	application
(30hrs)	CO-2. Understand the concept of fringes and constructive and
	destructive interference
	CO-3. Understand the concept of diffraction and its application
	CO-4. Understand the polarization of light and its applications
Paper C	CO-1. To understand wave particle duality
Quantum Physics-	CO-2: To understand and apply Schrodinger wave equation
I (30hrs)	CO-3: To understand quantum mechanical problems like particle
	in a box, potential well etc.
	CO-4: To understand quantum theory of hydrogen atom
Physics Lab	CO-1 Training on Statistical Mechanics experiments
L HYSICS LAD	CO 1. Hamming on Statistical Weenames experiments

	CO-2: Training on Lee Disc appts., Newton's ring appts
	CO-3: Hands on experience on spectrometer
	CO-4: Training on Determination of Planck's constant and
	Ionistaion potential of mercury
Paper A	CO-1 Learned the chemistry of elements of First Transition Series
Inorganic	
Chmistry(30 Hrs)	CO-2 Learned the chemistry of elements of Second and Third Transition Series
	CO-3 The students will be able to explain the fundamental concepts in coordination chemistry of transitionmetals, Werner's coordination theory, effective atomic number concept, chelates, nomenclature & isomerism in coordination compounds
	CO-4 Valence bond theory of transition metal complexes
Paper B Organic Chemistry (30 Hrs)	 CO-1.Able to describe different classes of alcohols, their synthesis and chemical reactions. CO-2 Able to write down structure of phenol and phenoxideion and their synthesis & chemical reactions. CO-3 Able to write down structure, synthesis and chemical reactions of aldehydes & ketones CO_4 Able to understand different reactivities of aldehydes& ketones
Paper C Physical Chemistry (30 Hrs)	CO-1 Students understand structure of liquids in qualitative discription& differentiate between solid, liquid & gas & also understand thermography & seven segment cell of liquid crystals
(50 Hrs)	CO-2 Students will derive law of mass of action & reaction isotherm
	CO-3 Student will understand the carnot cycle & their efficiency & thermodynamic scale of temperature, Gibbs function, Helmholtz function
	CO-4Understand the Concept of Entropy
Chemistry Lab	CO-1. Volumetric Analysis
	CO-2: Gravimetric Analysis
	CO-3:To determine the solubility of benzoic acid at different temperatures and to determine ΔH of the dissolution process
	CO-4:To determine the enthalpy of neutralization, enthalpy of ionization and ionization constant of acid/base.
Paper I	
Advance calculus-	CO-1. The student is expected to learn about the basic principles of multi-
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I	variable calculus with proofs	
-		
	CO-2. To have full knowledge of calculus involving the fundamental tools such as continuity and differentiability.	
	CO-3. Students are able to reason rigorously in mathematical arguments. They can follow abstract mathematical arguments and write their own proofs.	
	CO-4. Students are able to effectively communicate mathematics: reading, writing, listening, and speaking. Students make effective use of the library, conduct research and make oral and written presentations of their findings.	
	CO-5. To know Relationship between the increasing and decreasing behavior of f and the sign of functions.	
Paper II	CO-1.Determine the solution of Orthogonal trajectories of	
Differential	differential equation.	
Equations-II	CO-2. Acquire the idea of claurit equation for solving differential	
1	equation.	
	CO-3.Understand the order ,degree and various standard forms of	
	differential equations.	
Paper III		
Statics	CO-1. An ability to construct free-body diagrams and to calculate the	
	reactions necessary to ensure static equilibrium.	
	CO_{-3} A knowledge of internal forces and moments in members	
	Semester IV	
Paper A	CO-1. To understand concepts of entropy	
Statistical	CO-2: To be able to thoroughly understand Laws of	
Physics and	Thermodynamics, Carnot's Cycle	
Thermodynamics	CO-3: Understand Maxwell thermodynamic relationships	
– II	CO-4: To be able to do Thermodynamical treatment of Joule-Thomson	
(30hrs)	effect	
Paper B	CO-1. Understand the concepts of laser fundamentals and	
Optics and	interaction of light with matter	
Lasers –II	CO-2: Understand different types of broadening and lasing action	
(30hrs)	CO-3: Understand different typesoflasersEg. Ruby, He Ne laser	
	CO-4: Understand use of optical fibre and it's use in	
	communication	
Paper C	CO-1. To understand radiative transitions	

Quantum	CO-2: To understand anomalous Zeeman effect, Stark effect etc.	
Physics-II	CO-3: To differentiate LS coupling, JJ coupling etc.	
(30hrs)	CO-4: To understand molecular bonding	
Physics	CO-1. Hands on training on Sextant, diffraction grating etc.	
Practicals	CO-2. Hands on training on gas discharge spectrum of hydrogen	
	CO-3. Training on lens system	
	CO-4. Hands on training on divergence and wave length of a	
	given laser source.	
Paper A	CO-1 Understand the .Chemistry of Lanthanide Elements including	
Inorganic	electronic structure, oxidation state, ionic radii and anthanide	
Chmistry(30	contraction, complex formation, occurrence and isolation of lanthanide	
Hrs)	compounds.	
	CO-2: Understand the Chemistry of Actinides including general features, chemistry of separation of Np, Pu and Am from U, and similarities between the later actinides and the later lanthanides.	
	CO-3: Arrhenius, Bronsted-Lowry, the Lux-Flood, solvent system and Lewis concepts of acids and bases	
	CO-4:Use of redox potential data – analysis of redox cycle, redox stability in water – Frost, Latimer and Pourbaixdiagrams and Principles involved in the extraction of the elements.	
	CO-5 Physical properties of a solvent, types of solvents and their	
	general characteristics, reactions in non-aqueous solvents	
Paper B Organic Chemistry (30 Hrs)	CO-1. Able to recognize structures of acid halides, esters, amides, acidanhydrides and order of reactivity of different carboxylic acidderivatves.	
	CO-2 Able to write the nomenclature, synthesis and chemical reactions of Ethers , Epoxides	
	CO-3 Understand the concepts of Fats, Oils, Saponification value, iodine value, acid valueand Soaps&synthetic detergents	
	CO-4:Able to write the nomenclature, synthesis and chemical reactions of nitroalkanes, nitroarenes, aliphatic & aromatic amines	
	CO-5 The students will be able to introduce about basic chemistry of theheterocyclic and particular properties and reactions for the most important heterocyclic	
Paper C	CO-1 Students will derive the Gibbs phase rule, phase equilibria of one	

Physical	component system & two component system, partially miscible liquids	
Chemistry (30 Hrs)	CO-2 Students understand electrical transport means condution in metals & electrolytic solutions, migration of ions, kohlrausch law, weak & strong electrolytes, Debye huckleonsager equation	
	CO-3 Determine the electro motive force of cell, S.H.E, electrode potential	
	CO-4 Understand about electrolytic cell & galvanic cell	
Chemistry Lab	CO-1. Learned the Extraction of caffeine from tea leaves.	
	CO-2. Learned the Detection of elements (N, S and halogens) and functional groups in simple organic compounds.	
	CO-3. Learned the Determination of Rfvalues and identification of organic compounds.	
	CO-4Learned theSeparation of isometric mixture of Ortho and para nitroaniline using hexane and ethyl acetate (8.5 : 1.5) by thin layer chromatography	
PaperI		
Advance calculus	CO-1. Determine if a geometric series is convergent or divergent.	
II	CO-2. Find the sum of a convergent geometric series.	
	CO-3. Determine if an infinite series is convergent or divergent by selecting the appropriate test from the following: (a) test for divergence; (b) integral test; (c) p-series test; (d) the comparison tests; (e) alternating series test; (f) absolute convergence test; (g) ratio test; and (h) root test.	
	CO-4. Determine if an infinite series converges absolutely or conditionally	
Paper II	CO-1.Determine the solution of power series of differential	
Differential	equation.	
Equation II	CO-2.Acquire the idea of lagrange's method for solving the first	
	order linear partial differential equation.	
	CO-3.Understand the order , degree and various standard forms of	
	differential equations.	
Demon III	CO-4.10 know about the laplace transform.	
Paper III Dynamics	CU-1. Learned how to study simple harmonic motion.	
	C0-2 Learned how to trace curvilinear motion of particles in a	
	plane	
	CO-3. Learn concept of work, power and energy.	

Semester V	
Paper A	CO-1. To understand crystal structure
Condensed Matter	CO-2. Understand crystal diffraction and concept of reciprocal
Physics – I	lattice
(30hrs)	CO-3. To understand band theory of solids
	CO-4. Understand free electron theory of metals
Paper B	CO-1. Students will understand about semiconductor basics and
Electronics and	operation of different semiconductor devices
Solid State Devices	CO-2. Acquire knowledge about how a semiconductor diode
- I	rectifies an input ac signal
(30hrs)	CO-3. Students will come to know about transistor and how a
	transistor amplifies input signal
	CO-4. Learn about Hybrid parameters
Paper C	CO1. Constituents of nucleus and their intrinsic properties.
Nuclear & Particle	CO2.radioactivity, Q value, modes of decay
Physics – I	CO3.energy loss of electron, cyclotron, betatron
(30hrs)	CO4. Gm counter, conservation laws
Physics Practicals	CO-1. Hands on training on clipper circuits, Quincke's method, pn
	junction diode etc.
	CO-2. Rectifiers, filters, Zener diode training
	CO-3. Training of CRO, DSO etc
	CO-4. Training of Thermistor
Paper A	CO-1. Learned the crystal – field theory, crystal field splitting in
Inorganic	octahedral, tetrahedral and square planar complexes, factors affecting
Chmistry(30 Hrs)	the crystal – field parameters, Spectro chemical Series
	CO-2. Learned the thermodynamic and Kinetic stability of metal complexes and factors affecting the stability, substitution reactions of square planar complexes
	CO-3.Understand the nomenclature, classification, preparation, properties, bonding of different organometallic compounds
	CO-4. Understand the metalloporphyrinsof haemoglobin and myoglobin, biological role of alkali and alkaline earth metal ions. Nitrogen fixation.
Paper B	CO-1. Learned the Ultraviolet (UV) absorption spectroscopy
Organic Chemistry (30 Hrs)	CO-2 Learned the Infrared (IR) absorption spectroscopy

	CO-3. Learned the Proton Nuclear magnetic resonance (NMR) spectroscopy.	
	CO-4.Learned the synthesis and chemicl reactions of Carbohydrates such as Glucose, Fructose. Structures of some disaccharides, polysaccharides, concept of mutarotation, ring struture of monosaccharides, Haworth projection formulae etc.	
Paper C Physical Chemistry (30 Hrs)	CO-1 Learned to deriveplancks radiation law, Compton effect, photoelectric effect, uncertainty principle, schrodinger wave equation for H atom, physical interpretation of wave function, particle in one dimensional box, quantum number, radial & angular wave function	
	CO-2Learned the MOT, criteria for forming MO from AO, valence bond model	
	CO-3 Learned the laws of photochemistry, Jablonski diagram for various processes	
	CO-4 Learned the qualitative discription of fluorescence,	
	phosphoresce, non radiative processes, quantum yield, energy	
	transfer processes	
Chemistry Lab	CO-1.Learned the Preparation of sodium trioxalatoferrate (III), Na3[Fe(C2O4)3] and determination of its composition by permaganometry.	
	CO-2 Learned the Preparation of copper tetraammine complex [Cu(NH3)4]SO4.	
	CO-3Learned the Preparation of cis-and trans-bisoxalatodiaqua chromate (III) ion.	
	CO-4 Learned the Separation and estimation of Mg(II) and Fe(II)	
	CO-5 Learned to determine the strength of the given acid, solubility and solubility product of a sparingly soluble electrolyte, ionization constant etc. Conductometrically	
	CO-6 Learned to find out distribution constant of iodine and benzoic acid.	
(Paper Code+	CO-1. Knowledge of continuity and uniform continuity.	
Paper Name)	CO-2. Concept, application and calculation of Riemann Integrals	
Paper-A	CO-3.Understanding of Beta and Gamma functions	
Analysis-I	CO-4. Determination of Improper integrals and its applications	
Paper-II	CO-1.Recognise technical terms and appreciate some of the uses	

(Algebra)	of algebra	
(ingebiu)	CO_{-2} To classify numbers into number sets	
	CO-3 To combine polynomial by addition and subtraction	
	CO_{-4} To solve problems of simple Inequalities	
	CO-4. To solve problems of simple inequalities	
	CO-5. Interpret basic absolute value expression	
Paper-III	CO-1.A good understanding of elementary probability theory and its real life	
Probability	applications.	
Theory	\hat{CO} -2. Concept of random events, their expected values and its application i	
	lottery market.	
	CO-3. Introduction of fundamental discrete distribution, their pmf, cmf,	
	moments, etc.	
	CO-4. Introduction of fundamental continuous distribution, pdf, cdf, moments,	
	probability curve, area under probability curves etc.	
	CO-5. Identify the application of selected probability distribution to different	
	Semester VI	
Paper A	CO-1. To understand lattice dynamics	
Condensed Matter	CO-2. To differentiate between different magnetic materials	
Physics – II	CO-3 To understand different dielectrics and Liquid crystals	
(30hrs)	CO-4. To have an understanding of materials at nanoscale and	
()	superconductivity	
Paper B	CO-1. Students will understand about FET amplifiers feedback	
Electronics and	and sinusoidal oscillations	
Solid State Devices	CO-2. It will enable students to understand operational	
- II	amplifiers, its applications and timer IC555	
 (30hrs)	CO-3. It provides background for applications of electronics in	
(******)	mathematical operations	
	CO-4. They will acquire knowledge in communication system	
Paper C	CO-1. Understand Interaction of nuclear radiation with matter	
Nuclear & Particle	CO-2. Able to analyze Gamma-ray interaction with matter	
Physics – II	CO-3 Able to understand fundamentals of Particle Physics	
(30hrs)	CO-4. Abe to understand quark model and Particle accelerators	
Physics Practicals	CO-1. Hands on training on BH curves, four probe, Hall	
~	coefficient setup	
	CO-2. Hands on training on transistor characteristics	
	CO-3. Training on FET and amplifier	
	CO-4 Training of GM counter	
Paner A	CO-1 Learned the Silicones and phosphazenes as examples of inorganic	
Inorganic	polymers, nature of bonding in triphosphazenes	

Chmistry(30 Hrs)	 CO-2.Learned thehard and soft Pearson's HSAB concept, acid-base strength and hardness and softness. Symbiosis, theoretical basis of hardness and softness, electronegativity and hardness and softness CO-3.Learned theElectronic Spectra of Transition Metal Complexes, types of electronic transitions, L – S coupling, selection rules for d-d transitions, spectroscopic ground states, Orgel – energy level diagram CO-4. Learned the types of magnetic behaviour, methods of determining magnetic susceptibility, spin-only formula. Correlation of µsand µeff values, orbital contribution to magnetic moments, application of magnetic moment data for 3d-metal complexes.
Paper B Organic Chemistry (30 Hrs)	 CO-1. Learned the Amino Acids, Peptides, Proteins and Nucleic Acids CO-2. Learned the Addition or chain-growth polymerization, Ziegler – Natta polymerization, Condensation or step growth polymerization, Natural and synthetic rubbers. CO-3. Learned the acidity of á-hydrogens, alkylation of diethyl malonate and ethyl acetoacetate, Claisen condensation,keto-enol tautomerism of ethyl acetoacetate. Alkylation and acylation of enamines. CO-4. Learned the formation, structure and chemical reactions of The Grignard reagents, Organozinc &Organolithium Compounds
Paper C Physical Chemistry (30 Hrs)	 CO-1 Learned the space lattice, unit cell, Miller indices, laws of crystallography & symmetry elements CO-2 Learned to determination of crystal structure, derive Bragg equation, thermal & photochemical reactions in solid state CO-3 Learned the electromagnetic radiation, degrees of freedom, energy levels of a rigid rotor, apply selection rules to predict observed spectroscopic transitions CO-4 Learned the harmonic & anharmonic oscillator, Raman spectrum, IR spectrum, concept of polarizability & selection rules
Chemistry Lab	CO-1. Hands on training Column Chromatography and Separation of fluorescein and methylene blue&Separation of leaf pigments from spinach leaves

	CO-2. Hands on experience of Aliphatic& Aromatic electrophilic substitution oxidation reduction etc
	CO-3 Learned the Stereochemical study of Organic Compounds via Models: R and S configuration of optical isomers&E, Z configuration of geometrical isomers
	CO-4 Learned theConformational analysis of cyclohexanes and
	substituted cyclohexanes via ball and stick models.
Paper-A Analysis-II	CO-1. Students will have the knowledge of convergence of sequence and series of functions. CO-2. Solve the problems related to Double and Triple Integrals
7 11 11 1 9 15 - 11	and its application. CO-3.Solve various problems related to Area and Volume
	CO-4. Understanding of basic notions vector analysis, gradient of scalar field, paths and line integrals.
Papar-II	CO 1 Recognise technical terms and appreciate some of the uses
	of algebra
	CO-2 To classify numbers into number sets
	CO-3. To combine polynomial by addition and subtraction
	CO-4. To solve problems of simple Inequalities
	CO-5. Interpret basic absolute value expression
Paper-III	CO-1.A good understanding of elementary probability theory and its real life applications.
	CO-2. Concept of random events, their expected values and its application in lottery market.
	CO-3. Introduction of fundamental discrete distribution, their pmf, cmf, moments, etc.
	CO-4. Introduction of fundamental continuous distribution, pdf, cdf, moments, probability curve, area under probability curves etc.
	CO-5.Identify the application of selected probability distribution to different real life situations.

Programme Outcomes: M.Sc. (Physics)

Department of	After successful completion of two year degree
De sie Geieneen	program in Physics a student should be able to;
Basic Sciences	
Programme Outcomes	PO-1. Apply theoretical knowledge on practical problems
	PO-2. Develop research oriented skills
	PO-3. Solve complex problems
	PO-4.: Relate microscopic level probelm with macroscopic level
	PO-5. Demonstrate an understanding in different disciplines of Physics
Prog	ramme Specific Outcomes
Programme Specific Outcomes	
	PSO-1 Have proficiency in mathematics that is needed for better understanding of physics concepts.
	PSO-2. Analyze different Physical phenomena with knowledge in different disciplines
	PSO-3. Use basic computational techniques for physical systems
	PSO-4. co-relate the theoretical concepts with the experimental ones
Course	e Outcomes M. Sc (Physics)
	Semester-I
Course	Outcomes After completion of these courses students should
	be able to;
PHY6001	CO-1. equip the mathematical technique for
Mathematical Physics	understanding theoretical treatment i.e. to solve various
(3 Credits)	definite integrals
	CO-2. understand concept of delta and gamma
	Functions
	CO-3. solve equations used in electronic circuits
	CO-4. learn about special functions
PHY6002	CO-1. have knowledge of Lagrangian and Hamiltonian formalism
Classical	CO-2. conservation theorems, rigid body motion
Mechanics	CO-3. Hamilton's equations

(3 credits)	CO-4. Use canonical Transformations in the modern branches like Quantum Mechanics, Quantum field theory, Condensed Matter
	Physics, Astrophysics etc.
РНУ6003	CO-1. To Introduce the students of M.Sc to the formal
Quantum Mechanics-I	structure of the subject and to equip them with techniques of
(3 credits)	linear vector space and matrix mechanics, hydrogen atom etc.
	CO-2. Stationary state approximate methods, angular
	momentum, perturbation theory, Variational method with the
	application to ground states of harmonic oscillator.
	CO-3. Fermi's Golden rule so that they can use these in
	various branches of Physics as per requirement.
PHY6004	CO-1. To Know about properties of charges at rest
Classical	CO-2. To understand the concept about electrostatics of
Electrodynamics-1	dielectrics and boundary value problems like uniqueness
(3 credits)	theorem and green function CO-3. Students come to know about nature of
	electromagnetic wave and its behaviour in unbounded media
	CO-4. to study the behavior of electromagnetic wave in bounded
	media and its applications like waveguide
PHY6005	CO-1. learn physics of various semiconductor devices
Electronics-I	CO-2. know basic circuit analysis and various passive
(3 Credits)	Filters
	CO-3. understand about operational amplifiers and its
	basics in analogue computation, comparator circuits and IC555
	CO-4. learn basics of communication, active filters and
	power devices
PHY6051	CO-1. have understanding of experimental techniques in general
Physics Lab-I	Physics, electronics, nuclear
(5 Credits)	Physics and condensed matter Physics so that they can co-relate the
	confidence to handle sophisticated equipments wherever necessary.
	Semester-II
PHY6011	CO-1. learn about group theory used in particle physics
Mathematical Physics II	Course
(3 Credits)	CO-2. have knowledge of fourier series and integral
	transforms that helps them to solve problems in higher
	Physics
	CO-3. have knowledge of integral equations and tensors
	that helps them to solve problems in higher physics
	CO-4. have knowledge of numerical analysis that helps
	to solve problems of computational physics
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PHY6012	CO-1. To introduce the students of M.Sc to the formal
Quantum Mechanics II	structure of the subject and to equip them with scattering
(3 Credits)	theory, Born approximation
	CO-2. Relativistic quantum mechanics: Klein Gordan
	equation, Dirac equation, fine structure of hydrogen atom,
	Lamb shift, Field Quantization, Relativistic Quantum Field
	Theory
	CO-3. The concept of Feynman diagrams helps to study
	various phenomena like Compton scattering etc.
PHY6013 Doutido Dhusica I	CO-1. to familiarize with the concepts of Fermions, bosons and
Particle Physics I	other particles their interactions with fields in particle physics, Yukawa picture Invariance principles
(3 Credits)	CO-2. conservation laws: parity, Charge conjugation, CPT
	theorem, Hadron-
	Hadron Interactions: Strangeness, G-Parity, Relativistic Kinematics
	and Phase Space: Dalitz plots
	CO-3 Static Quark Model of Hadrons - Baryon decuplat Baryon
	octet, spin, colour, quark- anti quark combination
	CO-4. Weak Interaction: Classification, Fermi theory, cabobbo
	theory, CP violation In K-decay and its experimental determinations
	and develop a strong background if the student pursue research in
	particle physics.
PHY6014	CO-1. learn about basic aspects of Nuclear Physics like
Nuclear Physics I	wave mechanical properties of nuclei
(3 Credits)	CO-2. familarize about nuclear reactions of radioactive
	Decays
	CO-3. familarize about nuclear shapes
	CO-4. learn about basic properties of neutrons so that
	they can understand the techniques used in studying
	them.
РНУ6015	CO-1. deal with digital circuitss and digital logic
Electronics-II	Families
(3 Credits)	CO-2. learn about sequential circuits i.e. registers,
	Counters
	CO-3. Deal with A/D and D/A converters and
	semiconductor devices
	CO-4. learn about fundamental and concepts of
	microprocessor and IC fabrication
PHY 6052	CO-1 have understanding of experimental techniques in general
Physics Lab II	Physics, electronics, nuclear
	Physics and condensed matter Physics so that they can co-relate the

(5 Credits)	theoretical concepts with the experimental ones and develop
	confidence to handle sophisticated equipments wherever necessary.
	Semester-III
PHYS7001	CO-1. includes the postulates of special theory of relativity,
Classical Electrodynamics	Lorentz transformations, motion of particle in various aspects of
II	including non-relativistic and relativistic motions of charge particle
(3 Credits)	and magnetic mirroring.
	CO-2. The Covariant Formulation of Electrodynamics in Vacuum
	gives information of Four vectors in Electrodynamics, covariant
	continuity equation, wave equation, covariance of Maxwell
	equations.
	tonsor of the EM fields and the concernation laws. Lagrangian
	and Hamiltonian of a charged particle in an EM field
	and maintoinan of a charged particle in an EW field. CO(4) take a glimpse of rediction from accelerated charges
	Thomsonscattering, Payloigh scattering, absorption of
	radiation by bound electron
	radiation by bound electron.
PHYS7002	CO-1. Develop techniques of ensemble theory and to
Statistical Mechanics	relate statistics and thermodynamics
(3 Credits)	CO-2. Develop statistics of Grand canonical ensemble
()	and elements of quantum statistics
	CO-3. Study thermodynamic behaviour of ideal bose
	and fermi systems
	CO-4. learn about phase transistions and fluctuations
PHY87003	CO-1, explore shell model in detail, understanding the
Nuclear Physics	magic numbers and various nuclear properties based on
(3 Credits)	it and limitations
	CO-2: understand the collective modes of motion and
	their contribution in exploring nuclear structure to
	develop nuclear collective model
	CO-3: Understand Nuclear reactions through various
	approaches particularly Compound Nucleus formation
	Optical model and Striping and pick up reactions
	CO 4: develop nuclear structure using unified Nilscon
	model and eventsing shall model. Also to get some
	flower of medeor physics of estructure of stability 1, 1
	navour of nuclear physics at extremes of stability, halos,
	radioactive ion beams.
PHYS7004	CO-1. Understand structure of solids and dynamics of a
Condensed Matter	chain of atoms
Physics I	CO-2. Students will be able to understand different
(3 Credits)	theories of band formation in solids

	CO-3. Understand theory of transport in solids
	CO-4. Students will be able to understand different
	properties of dielectrics
PHYS7021	CO-1. familarize about advanced experimental
Physics lab III	techniques in general physics, electronics, nuclear
(6 Credits)	physics, particle physics and condensed matter physics
	so that they can investigate various relevant aspects and
	can confidently handle various equipments and can
	easily handle different data.
PHYS7022	CO-1.learn about different numerical methods
Computational Physics-I	CO-2. Basics of C++ Programming language
(2 Credits)	CO-3.Solve different mathematical problems.
	Semester IV
PHYS 7051	CO-1. expose the students of M.Sc. class to the relatively
Particle Physics-II	advanced topics like internal symmetries
(3 Credits)	CO-2. learn about details of different types of fundamental interactions
	CO-3. quark model.
	CO-4. unification schemes so that they understand these aspects
	properly and are well equipped to pursue a career in high energy
	physics.
PHYS 7052	CO-1. Students will be able to understand optical
Condensed Matter	properties of solids
Physics-II	CO-2. Understand magnetic properties of solids.
(3 credits)	CO-3. Understand phenomenon of superconductivity
	CO-4.Students will be able to distinguish defects and
	disorders
PHYS 7053	CO-1. Learn about data interpretation and how different
Experimental Techniques	radiations interact with matter
in Nuclear and Particle	CO-2. Know theory behind working of different
Physics	detectors and spectroscopy of particles
(3 Credits)	CO-3. Know about electronics associated with different
	kind of detectors
	CO-4. Familarize current high energy experiments and
	heavy-ion reactions
PHYS 7054	CO-1. Students understand about the fibre structure and
Fibre Optics and Non-	modes of propagation of wave in optical fibre
Linear Optics	CO-2. To understand the isotropic media and wave propagation
(3 credits)	inside it and uniaxial and diaxial crystals $CO-3$. Student come to know about electro-optic effect and
	different types od modulations
PHYS 7054 Fibre Optics and Non- Linear Optics (3 credits)	CO-4. Familarize current high energy experiments and heavy-ion reactions CO-1. Students understand about the fibre structure and modes of propagation of wave in optical fibre CO-2. To understand the isotropic media and wave propagation inside it and uniaxial and biaxial crystals CO-3. Student come to know about electro-optic effect and different types od modulations

	CO-4. To understand the concepts about nonlinear optics
PHYS 7071	CO-1. familarize advanced experimental techniques in
Physics lab IV	general physics, electronics, nuclear physics, particle
(6 Credits)	physics and condensed matter physics so that they can
	investigate various relevant aspects and can confidently
	handle various equipments and can easily handle
	different data.
PHYS7073	CO-1. learn about advanced C++ Programming
Computational Physics-II	language
(2 Credits)	CO-2.Solve Physics problems using C++

Department of Mathematics

Programme Outcomes: B.A. (Mathematics)

Mathematicsa student should be able to;ProgrammePO-1. Students gain knowledge in foundational areas of mathematics. It	t tical	
Programme PO-1. Students gain knowledge in foundational areas of mathematics. It	t tical	
Programme PO-1. Students gain knowledge in foundational areas of mathematics.	t tical	
	tical	
Outcomes develop mathematical thinking. Students will be able to apply mathema	ui	
knowledge and be able to solve mathematical problems using technolog	y.	
Programme Specific Outcomes		
PSO-1. Aware the student about basic facts about mathematics.		
Programme Specific Outcomes PSO-2. Provide knowledge of conventions such as notations, terminology an recognize basic, geometrical figures and graphical displays.	PSO-2. Provide knowledge of conventions such as notations, terminology and recognize basic, geometrical figures and graphical displays.	
PSO-3. Aware the student of history of mathematics and hence of its past, present and future role as part of our culture.		
PSO-4. A student should get a relational understanding of mathematical conce and should be able to follow the concepts of mathematical reasoning.	epts	
PSO-5 . Enable the student to select and useappropriate mathematical formula techniques for application area of mathematics	PSO-5. Enable the student to select and useappropriate mathematical formulae or techniques for application area of mathematics	
Course Outcomes- B.A. (Mathematics)		
Semester-I		
Course Outcomes After completion of these courses students should be able to;		
Paper- CO-1. Students will be able to interpret a function from an algebraic	,	
Calculus I numerical, graphical perspective and extract information relevant to)	
the phenomenon modeled by the function.		
CO-2. Students will be able to verify the value of the limit of a		
function at a point using the definition of the limit.		
CO-3.Students will be able to understand the consequences of		
intermediate value theorem for continous function.		
CO-4. Students will be able to show whether function is differentiable	le at	
a point.		

CO-1. Determine if a given matrix is diagonalizable. CO-2. Solve the matrix equation $Ax = b$ using row operations and matrix
Operations CO-3. Find the determinant of a product of square matrices, of the transpose of a square matrix, and of the inverse of an invertible matrix CO-4. Find the characteristic equation, eigenvalues and corresponding eigenvectors of a given matrix.
 CO-1. understand geometrical terminology for angles, triangles, quadrilaterals and circles. CO-2. measure angles using a protractor. CO-3. use geometrical results to determine unknown angles. CO-4. recognise line and rotational symmetries. CO-5. find the areas of triangles, quadrilaterals and circles and shapes based on these
Semester-II
CO-1.learned how to use fundamental theorem of algebra in real life. CO-2.learned basic concept of descarte's rule of sign. CO-3. Learned how to solve cubic and biquadratic equations using cardon's , descarte's and ferrari's method
CO-1Evaluate an indefinite integeral using integeration by parts . CO-2Calculate an improper integeral where atleast one of the bounds is not a real Number CO-3Student learn how to set up definite integeral to calculate the length of curve
CO-1.understand geometrical terminology for angles, triangles, quadrilaterals and Sphere CO-2. measure angles using a protractor. CO-3. use geometrical results to determine unknown angles.

Semester-III	
Course	Outcomes After completion of these courses students should be able to;
Paper-I	CO-1. The student is expected to learn about the basic principles of multi-
Advance	variable calculus with proofs.
calculus I	CO-2. To have full knowledge of calculus involving the fundamental tools such as continuity and differentiability.
	CO-3. Students are able to reason rigorously in mathematical arguments. They can follow abstract mathematical arguments and write their own proofs.
	CO-4. Students are able to effectively communicate mathematics: reading, writing, listening, and speaking. Students make effective use of the library, conduct research and make oral and written presentations of their findings.
	CO-5. To know Relationship between the increasing and decreasing behavior of f and the sign of functions
DIFFERENTIAL	CO-1.Determine the solution of Orthogonal trajectories of
EQUATION I	differential equation.
	CO-2.Acquire the idea of claurit equation for solving differential
	equation.
	CO-3.Understand the order ,degree and various standard forms of
	differential equations.
STATISTICS	CO-1. An ability to construct free-body diagrams and to calculate the reactions necessary to ensure static equilibrium.
	CO-2. An understanding of the analysis of distributed loads.
	CO-3. A knowledge of internal forces and moments in members

Curse Outcomes B.A. <u>Semester IV</u>	
Paper-A	CO-1. Determine if a geometric series is convergent or divergent.
Advance calculus II	CO-2. Find the sum of a convergent geometric series.
	CO-3. Determine if an infinite series is convergent or divergent by selecting the appropriate test from the following: (a) test for divergence; (b) integral test; (c) p-series test; (d) the comparison tests; (e) alternating series test; (f) absolute convergence test; (g) ratio test; and (h) root test.
	CO-4. Determine if an infinite series converges absolutely or conditionally

Differential	CO-1.Determine the solution of power series of differential equation.
equation	CO-2. Acquire the idea of lagrange's method for solving the first
	order linear partial differential equation.
	CO-3.Understand the order ,degree and various standard forms of
	differential equations.
	CO-4.To know about the laplace transform.
Dynamics	CO-1. Learned how to study simple harmonic motion.
	CO-2. Learned how to trace curvilinear motion of particles in a plane.
	CO-3. Learn concept of work, power and energy.

	Semester-V
Course	Outcomes
	After completion of these courses students should be able to;
Paper-A	CO-1. Knowledge of continuity and uniform continuity.
Analysis-I	CO-2. Concept, application and calculation of Riemann Integrals
	CO-3.Understanding of Beta and Gamma functions
	CO-4. Determination of Improper integrals and its applications
Paper-	CO-1.Recognise technical terms and appreciate some of the uses of
II(Algebra)	algebra
	CO-2. To classify numbers into number sets
	CO-3.To combine polynomial by addition and subtraction
	CO-4. To solve problems of simple Inequalities
	CO-5. Interpret basic absolute value expression
Paper III	CO-1.A good understanding of elementary probability theory and its real life
Probability	applications. CO-2. Concept of random events, their expected values and its application in
	lottery market.
	CO-3. Introduction of fundamental discrete distribution, their pmf, cmf, moments,
	etc.
	CO-4. Introduction of fundamental continuous distribution, pdf, cdf, moments,
	probability curve, area under probability curves etc.
	CO-5. Identify the application of selected probability distribution to different real
	life situations.

	Semester-VI	
Paper-A	CO-1. Students will have the knowledge of convergence	
Analysis-II	of sequence and series of functions. CO-2. Solve the problems related to Double and Triple Integrals and	
	its application. CO-3.Solve various problems related to Area and Volume	
	CO-4. Understanding of basic notions vector analysis, gradient of scalar field, paths and line integrals.	
	CO-5. Concept of convergence of power series	
Numerical	CO-1Apply numerical methods to find out solution of algebraic equations	
Analysis	using different methods under various condition and solutions of system of algebraic equations.	
	CO-2. Apply various interpolation methods and finite difference methods.	
	CO-3. Work out numerical differentiation and integration when routine methods are not applicable.	
	CO-4. Work numerically on ordinary differential equations using different methods through theory of finite differences	
	CO-5. Work numerically on partial differential equations using different methods through theory of finite differences.	
	CO-6. Analyse and evaluate the accuracy of common numerical methods.	

Programme Outcomes: M.Sc. (Mathematics)

Department of	After successful completion of two year degree program in
Mathematics	chemistry a student should be able to;
Programme Outcomes	PO-1Inculcate critical thinking to carry out scientific investigation objectively without being biased with preconceived notions.
	PO-2. Equip the student with skills to analyze problems, formulate an hypothesis, evaluate and validate results, and draw reasonable conclusions thereof.
	PO-3.•Prepare students for pursuing research or careers in industry in mathematical sciences and allied fields
	PO-4. Imbibe effective scientific and/or technical communication in both oral and writing.
	PO-5. Continue to acquire relevant knowledge and skills appropriate to professional activities and demonstrate highest standards of ethical issues in mathematical sciences.
	PO-6.Create awareness to become an enlightened citizen with commitment to deliver one's responsibilities within the scope of bestowed rights and privileges
	Programme Specific Outcomes
Programme Specific Outcomes	PSO-1 • Understanding of the fundamental axioms in mathematics and capability of developing ideas based on them.
	PSO-2• Inculcate mathematical reasoning.
	PSO-3• Prepare and motivate students for research studies in mathematics and related fields.
	PSO-4 • Provide knowledge of a wide range of mathematical techniques and application of mathematical methods/tools in other scientific and engineering domains.
	PSO-5• Provide advanced knowledge on topics in pure mathematics, empowering the students to pursue higher degrees at reputed academic institutions.
	PSO-6• Strong foundation on algebraic topology and representation theory which have strong links and application in theoretical physics, in particular string theory.
	PSO-7 • Good understanding of number theory which can be used in modern online cryptographic technologies.
	PSO-8• Nurture problem solving skills, thinking, creativity through assignments, project work.
	PSO-9• Assist students in preparing (personal guidance, books) for competitive

	exams e.g. NET, GATE, etc.		
	Course Outcomes M. Sc (Mathematics)		
	Course Outcomes Wi. Sc (Wathematics)		
	Semester-I		
Course	Outcomes After completion of these courses students should be able to;		
Paper-Real	CO-1. Students will be able to describe fundamental properties of the real		
analysis	numbers that lead to the formal development of real analysis.		
	CO-2. Effectively write mathematical solutions in a clear and concise		
	manner.		
	CO-3.Effectively locate and use the information needed to prove theorems		
	and establish mathematical result.		
	CO-4. Demonstrate the ability to manipulate and use power series.		
	CO-5. Demonstrate the ability to use and operate series of numbers and series		
	of functions.		
Paper-II(602)	CO-1. Solving problems using the powerful concept of group action.		
Paper-	CO-2. Facility in understanding the structure of a problem where the problem		
Algebra-I	involves a permutation group - e.g. nature of the roots of a polynomial equation.		
	CO-3. Ability to understand a large class of commutative rings by regarding		
	them as quotients of polynomial rings by suitable ideals.		
	CO-4. Facility in solving real life problems by thinking logically and outside of		
	box.		
	CO-5. Facility in working with situations involving commutative rings, in particular		
	that finds a large number of applications in real life including the graphs and networks		
	CO-1.Classify partial differential equation and transform into canonical		
Paper-	form		
III(603)	CO-2. Recognize and solve a homogeneous differential equations.		
Differential	CO-3.Obtain an approximate solution function value to initial value problem.		
Equations	CO-4.Obtain an approximate set of solution function values to second order		
1	boundary value problem using a finite difference equation.		
	CO-5.Solve the problem choosing the most suitable method.		
Paper-IV	CO-1. Solve problems on basic concepts of modulus, argument of a complex number,		
Complex	de Moiver's theorem and use them to find roots of an algebraic equation. CO_2 Check continuity and differentiability for complex functions		
Analysis-I	CO-3. Prove the Cauchy-Riemann equations and apply themto complex functions in		
	order to determine whether agiven continuous function is complex differentiable,		
	CO-4. Evaluate integrals along a path - directly from the definition and also via the		
	Fundamental Theorem of Contour Integration and Cauchy's Theorem.		
	CO-5. Analyze sequence and series of analytic functions and types of convergence		
	CO-7 Apply concept and consequences of analyticity and C P equations		
	CO-8. Compute complex contour integrals and applying the Cauchy's integral in		
	NO 0. Compute complex contour integrals and apprying the Cauchy's integral in		

	various versions.
	CO-9. Understand geometric interpretations of complex numbers.
Paper-	CO-1.Find remainders using Division Algorithm and existence of integral
V(605)	quotient and remainders in any interval.
Number	CO-2. Introduction to congruence classes and relationship with remainder
Theory I	classes, to identify last digits in difficult calculations which has direct
	implications in competitive exams.
	CO-3. Checking solvability of various forms of diaphantine equation and
	finding their solutions.
	CO-4. Fermat little theorem and its generalizations to understand basic of
	cryptography.
	CO-5. Understanding and finding solution of linear, quadratic and polynomial
	congruences.
	CO-6.Role of primitive roots in algebra

Semester-II	
Course	Outcomes After completion of these courses students should be able to;
Paper-Real	CO-1. Knowledge and understanding :Learn the theory of Riemann –
analysis II	stieltjes integeral to be acquainted with the ideas of the total variation and
	to be able to deal with functions of bounded variation.
	CO-2.Intellectual skills: Develop a reasoned argument in handling
	problems about functions .
	CO-3.General and transferable skills: Develop the ability to reflect on
	problems that are quite significant in the field of real analysis.
	CO-4.student will write clear and precise proofs.
	CO-5. Students will communicate effectively in both written and oral form.
Algebra-II	CO-1. Demonstrate insight into abstract algebra with focus on axiomatic
	theories.
	CO-2. Apply algebraic way of thinking.
	CO-3. Demonstrate knowledge and understanding of fundamental concept
	including group, Subgroup, normal subgroup, homomorphism and
	isomorphism.
	CO-4. Demonstrate knowledge and understanding of rings, fields and their
	properties.
	CO-5. Understand and prove fundamental results and solve algebraic
	problems using appropriate techniques.
Paper –III	CO-1.Integrate functions of several variable over curves and surfaces.
Vector analysis and mechanics	CO-2. Use green, gauss and divergence theorem to compute integrals.

	-
	CO-3.Recogonise differential equation of the orbit under central force.
Paper-IV	CO-1 Compute the Taylor and Laurent expansions of simple functions,
Complex Analysis-II	determining the nature of the singularities and calculating residues.
	CO-2. Prove the Cauchy Residue Theorem and use it to evaluate integrals.
	CO-3.Learn the methods to calculate zeros, poles and residues at a pole.
	CO-4. Evaluation of integration round unit circle.
	CO-5. Knowledge of bilinear transformation.
	CO-6 Solution of problems related to analyatic continuation
Paper -V	CO-1Learning outcomes of analytic number theory 1 to understand better the
Number Theory-II	distribution of primes on real number line.
	CO-2. Arithmetic function and their utility in analytic theory of numbers. CO-
	3. prove elementary results on sums over primes and use these to calculate averages of additive arithmetic functions
	CO-4. utilise the correspondence between the product of Dirichlet series and
	convolution of arithmetic functions to factor multiplicative functions and
	then calculate their averages.
	C0-5. Understand some analytic properties of the Riemann zeta function,
	including an analytic continuation, a zero-free region, and estimates on the
	growth of the zeta function,
	CO-6 Concept of Prime Number Theorem with an error term.

Semester-III	
Course Outcomes	After completion of these courses students should be able to;
Domon Field	CO 1 Evaluin fundamental concert of field extension and colois theory and
Paper- Field	CO-1. Explain fundamental concept of field extension and galois theory and
Theory	their role in modern mathematics and applied contexts.
	CO-2. Demonstrate accurate and efficient use of field extension and galois
	theory.
	CO-3. Demonstrate capacity for mathematical reasoning through analyzing,
	proving and explaining concept of field extension and galois theory.
	CO-4. Apply problem solving using field extension and galois theory applied
	to diverse situations in physics, engineering and other mathematical contexts.
Paper-	CO-1. Students will know the definition of standard terms in topology.
Topology	CO-2.Students will know how to read and write proofs in topology.
	CO-3.Students will know a variety of examples and counterexamples in
	topology.
	CO-4.Students will know about the fundamental group and covering spaces.
	CO-5. Students will understand the machinery needed to define homology

Paper-IV (661)	CO-1. Students will learn how to calculate and apply measure of location and
Probability	measure of dispersion-grouped and ungrouped data cases.
and Statistics I	 CO-2.Compute and interpret the results of multivariate regression and correlation analysis. CO-3. Introduction of fundamental continuous distribution, pdf, cdf, moments, probability curve, area Under probability curves etc. CO-4. Concept of random events, their expected values and its application in lottery market. CO-5.Students will be able to deal with real life situations with the help of probability.
Paper-IV Differential Geometry -I	 CO-1.Application of Christoffel Symbols. CO-2. Solve examples on curvatures, arc lengths and line integrals, curvature of surfaces. CO-3. Learn the methods and properties related to curvilinear co-ordinates CO-4. Knowledge of Tensor Algebra, Riemannian Metric. CO-5.Understand basic notions related to n-dimentinal spaces.
Paper-Special Function	CO-1. understand integral calculus and special functions of various problem and to known the application of some basic mathematical methods via all these special functions. CO-2. explain the applications and the usefulness of these special functions. CO-3. classify and explain the functions of different types of differential equations

Semester-IV	
Course	Outcomes After completion of these courses students should be able to;
Paper-Liner	CO-1 use computational and algebraic skills essential for the study of
Algebra	system of linear
	equation, matrix algebra, vector spaces, eigen values and eigen vectors.
	CO-2. Use visualization, spatial reasoning as well as geometric properties
	and strategies to model, solve problems and view solutions in multi
	dimensional spaces.
	CO-3. Critically analyze and construct mathematical argument that relate
	to study of Introductory linear algebra.

Fuctional	CO-1 Student will be able to apply fundamental properties of bounded
Analysis	operator.
	CO-2 Student will learn the condition for existence of extention of
	function and their nature in banach spaces and Hilbert spaces.
	CO-3 Define a compact operator and report on fundamental property of
	the latter.
	CO-4 Report on fundamental properties of banach space.
	CO-5 Apply Hahn banach theorem ,open mapping theorem ,closed graph
	thorem and uniform boundedness principle.
Paper-IV (681)	CO-1. Students will be able to understand the techniques used for data
Probability	collection.
and Statistics	CO-2Students will be able to understand the sampling distributions of a
II	sample's mean and proportions.
	CO-3. Student will be able to apply knowledge of mathematics to solve
	engineering problems.
	CO-4. By using hypothesis testing student will be able to check whether the
	given statement is significant or not.
Paper-IV	CO 1 Application of Differential Compare
Differential	CO-1. Application of DifferentialGeometry
Geometry -11	CO-2. Understand core ideas of orientation and application of Geodesics
	CO-3. Learn the methods and properties related to curvilinear co-ordinates
	CO-4. Knowledge of parallel transport, Weingarten map and Curvatures.
Paper	CO-1. understand purpose and functions of the gamma and beta functions, Fourier
Integral	series and Transformation.
Transforms	different types of integral calculus problems and Fourier series to solve differential
	equations.
	CO-3. Understand purpose and functions of laplace transform.

Department of Computer Sciences

Programme Outcomes: BCA

Department of	After successful completion of three year degree program in BCA a		
Computer Sciences	student should be able to;		
Program me	PO-1. Engineering Knowledge:		
Outcomes			
	PO-2. Apply the knowledge of mathematics, science, engineering fundamentals to the solution of complex engineering problems.		
	PO-3 Software Development, Website development		
	Programme Specific Outcomes		
Programme			
Specific Outcomes	PSO-1. To improve the Problem Analysis, i.e identify, formulate, review and analyze complex problems using various techniques.		
	PSO-2. To know functions of various hardware components and their building		
	block		
	PSO-3. To understand the different stages of an instruction execution		
	Course Outcomes -BCA		
	Semester-I		
Course	Outcomes		
	After completion of these courses students should be able to;		
Paper Code-	CO-1. Students will learn how to calculate and apply measure of		
BCA-16-102	location and measure of dispersion -grouped and ungrouped data		
Paper Name-	cases.		
Fundamentals of	CO-2. Students will be able to compute and interpret the result of bivariate		
Mathematical	and multivariate regression and correlation analysis. $CO(2)$ Students will recognize and emprecises the connection between		
Statistics	theory and applications		
Statistics	CO-4. Students will be able to communicate key statistical concept to		
	non statisticians		
	CO-5. Students will be familiar with a variety of examples where		
	mathematics or statistics helps accurately explain abstract or physical		
	phenomena.		

D C L	
Paper Code-	CO-1. Understand the fundamental hardware components that make up a
BCA-16-103	computer's hardware and the role of each of these components
Paper Name-	CO-2. Understand the difference between an operating system and
Computer	an application program, and what each is used for in a computer
Fundamentals	CO-3. Describe the organization and operation of a computer processor,
and Computing	primary and secondary memory and peripheral devices and to give
Software	computer specifications.
	CO-4. Understanding the concept of input and output devices of
	Computers and how it works.
	CU-5. Provide nands-on use of Microsoft Office 2010 applications word,
	Office applications knowledge and skills
Donar Cada.	CO 1 Students learn how build an algorithm for problems
RCA_16_104	CO_{-2} Students learn basics of logic development using C-language
DCA-10-104	CO-3 Enable students to create pictorial representations of the program
Paper Name-	CO-4 Enhance students programming concepts
Problem Solving	CO_{-5} students learn basics of file handling
Through C	CO-5. students learn basies of me nandring.
Paper Code-	CO-1 Students will know the soft and communication skills
BCA-16-101	CO-2 prepare the students for the interview by practicing them for the
Donor Name.	group discussion
Taper Ivanie-	CO-3 Improve the grammatical skills of the students
(Compulsory)-A	
Paper Code-	CO-1.To introduce Basic Unix general purpose Commands
BCA-16-105	CO-2.To creates documents using MS Word Word Processing Package.
Paper Name-	CO-3.To creates attractive presentations using MS Power Point.
Lab Based on	CO-4.Completion of the assignments will result in MS Office applications
Computer	knowledge and skills.
Fundamentals	CO-5. Student will be able to compose, format and edit a word document.
and Computing	
anu Computing Softwara	
Sonware	
Donor Code	CO 1 Develops basic understanding of computers, the concept of algorithm and
	algorithmic thinking
BCA-10-100	CO-2. Develops the ability to analyze a problem, develop an algorithm to solve it.
Paper Name-	CO-3.Develops the use of the C programming language to implement various
Lab Based on	algorithms
Problem Solving	CO-4. Develops the basic concepts and terminology of programming in general.
Through C	CO-5. Introduces the more advanced features of the C language.

Semester-II	
Paper Code-	CO-1. TO inculcate the skills of computer components and their
BCA-16-202	connectivity
Paper Name-	
Computer	CO-2. Presenting the students the skill of buses and architectures
Organization	
Paper Code-BCA-	CO-1 To enhance the students with the skills of website designing
16-203	CO-2 To prepare the students with the connection of front end and
Paper Name-	back end.
Fundamental of	
Web	
Programming	
Paper Code-BCA-	CO-1. Software Development capablility in c++
16-204	CO-2. GO handy with object oriented concepts and
Paper Name-	File handling
Object Oriented	
Programming	
using C++	
_	

Semester-III	
Paper Code- BCA-16-301 Paper Name- Punjabi-A	 CO-1. By Reading Modren Poetry students is able to understand issues of modernism. CO-2. The students know the Story as a form of literature. CO-3. The students get the literary sense of comprehension of the subject. CO-4. The students know the skills of communication in Puniabi
	CO-5. The students also know about the word formation and vocabulary.
Paper Code- BCA-16-303 Paper Name- Information System Design	 CO-1.The key modeling concepts applicable to both structured approaches to systems development are examined. CO-2. An understanding suited to the needs of a business analyst, information systems selector or managerial consultant. CO-3. Understand and apply key principles of good user interface design. CO-4. Explain needs for software specifications also they can classify

and implementation	different types of software requirements and their gathering techniques. CO-5. Justify role of SDLC in Software Project Development and they can evaluate importance of Software Engineering
Paper Code- BCA-16-305 Paper Name- Data Structures	CO-1 To know the strategies for data storage, fetching, manipulation and analysis capability CO-2 Students can further explore the ideas for stat storage and retrieval
pPaper Code- BCA-16-306 Paper Name- Lab Based on Computer Oriented Numerical Methods	 CO-1.Apply numerical methods to find our solution of algebraic equations using different methods under different conditions, and numerical solution of system of algebraic equations. CO-2.Apply various interpolation methods and finite difference concepts CO-3.Work numerically on the ordinary differential equations using different methods through the theory of finite differences. CO-4.To learn important theorems, different formulae and practical applications of these statistical and optimization methods in the field of Computer Sciences and Applications. CO-5.Apply Mathematical Modeling and Solving Mathematical Problems with help of C language.
Paper Code- BCA-16-307 Paper Name- Data Structures	CO-1 To impart the technical and practical skills for implementation of data.
	Semester-IV
Paper Code- BCA-16-403 Paper Name- Software Project Management	CO-1. Students can mangae the project by using techniques available CO-2.Go for Managers and team leaders CO-3. Project builders can be developed
Paper Code- BCA-16-404 Paper Name- Operating Syatem	CO-1. Students can work with the core processors CO_2 To go for the operating system development CO-3 Work in the scheduling techniques and deadlock handling mechanisms

Paper Code-	CO-1 Students canm handle the database very easily
BCA-16-406	CO-2 understanding the power of database when connected with the
Paner Name-	front end
Database	
Management	
System	
System	
	Same arter V
	Semester-v
Paper Code-	CO-1. By Reading Modren Poetry students is able to understand
BCA-16-301	issues of modernism.
Paper Name-	CO-2. The students know the Story as a form of literature.
Punjabi-A	CO-3.The students get the literary sense of comprehension of the
	subject.
	CO-4. The students know the skills of communication in Punjabi.
	CO-5. The students also know about the word formation and vocabulary.
Paper Code-	CO-1. The key modeling concepts applicable to both structured
BCA-16-303	approaches to systems development are examined.
Paper Name-	CO-2. An understanding suited to the needs of a business analyst,
Information	information systems selector or managerial consultant.
System Design	CO-3. Understand and apply key principles of good user interface design.
and	different types of software requirements and their gathering techniques
implementation	CO-5 Justify role of SDLC in Software Project Development and they can
mprementation	evaluate importance of Software Engineering
Paper Code-	CO-1 To know the strategies for data storage, fetching, manipulation
BCA-16-305	and analysis capability
Paper Name-	
Data Structures	
Paper Code-	CO-1.Apply numerical methods to find our solution of algebraic equations
BCA-16-306	using different methods under different conditions, and numerical solution
Paper Name-	of system of algebraic equations.
Lab Based on	CO-2. Apply various interpolation methods and finite difference concepts
Computer	different methods through the theory of finite differences
Oriented	CO-4.To learn important theorems. different formulae and practical
Numerical	applications of these statistical and optimization methods in the field of
Methods	Computer Sciences and Applications.
	CO-5.Apply Mathematical Modeling and Solving Mathematical Problems
	with help of C language.

Paper Code-	CO-1 To impart the technical and practical skills for implementation
BCA-16-307	of data.
Paper Name-	
Data Structures	

Semester-VI	
Paper Code- BCA-16-601 Paper Name-E Commerce	CO-1.to inculcate employment skills by teaching e commerce as a subject CO-2To facilitate the students regarding development for the with Online business, shopping applications.
Paper Code- BCA-16-603	CO-1. To help the students in their career opportunities in graphics, multimedia, games development
Paper Name- Computer Graphics and Multimedia	CO-2 Help the students for cartooning presentations 2D or 3D.
Paper Code- BCA-16-602 Paper Name- Application Development using VB.Net	CO-1 To present the students with the application or software development in .Net and database linking advantages CO-2 To present testing and designing future ahead
Paper Code- BCA-16-605 Paper Name- Major Project and Seminar	CO-1 To prepare the students for the project development and the seminar presentations for building up their career opportunities CO-2 Job opportunities in project development.

Programme Outcomes: M.Sc. (Information Technology)

Department of	After successful completion of two year degree program in	
Chemistry	chemistry a student should be able to;	
Enemistry		
Programme Outcomes	PO-1 Enable students to Identify and use Linux utilities to create and manage simple file processing operations, organize directory structures with appropriate security	
	PO-2. Enable students to Monitor system performance and network activities PO-3. Student.Effectively use software development tools including libraries, preprocessors, compilers, linkers, and make files.	
	Programme Specific Outcomes	
Programme	PSO-1 Demonstrate a familiarity with major algorithms and data structures.	
Specific Outcomes		
_	PSO-2. Apply important algorithmic design paradigms and methods of analysis	
	PSO-3. Grasping approach, divide and overcome, dynamic programming, backtracking and department and certain	
Course Outcomes M. Sc (IT)		
	Course Outcomes M. Sc (IT)	
	Course Outcomes M. Sc (IT) Semester-I	
Course	Course Outcomes M. Sc (IT) Semester-I Outcomes After completion of these courses students should be able to;	
Course Paper Code-	Course Outcomes M. Sc (IT) Semester-I Outcomes After completion of these courses students should be able to; CO-1.Enable students to Identify and use Linux utilities to create and manage	
Course Paper Code- MS-66	Course Outcomes M. Sc (IT) Semester-I Outcomes After completion of these courses students should be able to; CO-1.Enable students to Identify and use Linux utilities to create and manage simple file processing operations, organize directory structures with appropriate	
Course Paper Code- MS-66 Paper Name-	Course Outcomes M. Sc (IT) Semester-I Outcomes After completion of these courses students should be able to; CO-1.Enable students to Identify and use Linux utilities to create and manage simple file processing operations, organize directory structures with appropriate security CO-2.Students will be able to develop shell scripts to perform more complex tasks.	
Course Paper Code- MS-66 Paper Name- Linux	Course Outcomes M. Sc (IT) Semester-I Outcomes After completion of these courses students should be able to; CO-1.Enable students to Identify and use Linux utilities to create and manage simple file processing operations, organize directory structures with appropriate security CO-2.Students will be able to develop shell scripts to perform more complex tasks. CO-3.Students can effectively use the UNIX/Linux system to accomplish typical	
Course Paper Code- MS-66 Paper Name- Linux Administration	Course Outcomes M. Sc (IT) Semester-I Outcomes After completion of these courses students should be able to; CO-1.Enable students to Identify and use Linux utilities to create and manage simple file processing operations, organize directory structures with appropriate security CO-2.Students will be able to develop shell scripts to perform more complex tasks. CO-3.Students can effectively use the UNIX/Linux system to accomplish typical personal, office, technical, and software development tasks.	
Course Paper Code- MS-66 Paper Name- Linux Administration and	Course Outcomes M. Sc (IT) Semester-I Outcomes After completion of these courses students should be able to; CO-1.Enable students to Identify and use Linux utilities to create and manage simple file processing operations, organize directory structures with appropriate security CO-2.Students will be able to develop shell scripts to perform more complex tasks. CO-3.Students can effectively use the UNIX/Linux system to accomplish typical personal, office, technical, and software development tasks. CO-4. Enable students to Monitor system performance and network activities. CO-5. Student Effectively use software development tools including libraries	
Course Paper Code- MS-66 Paper Name- Linux Administration and Programming	Course Outcomes M. Sc (IT) Semester-I Outcomes After completion of these courses students should be able to; CO-1.Enable students to Identify and use Linux utilities to create and manage simple file processing operations, organize directory structures with appropriate security CO-2.Students will be able to develop shell scripts to perform more complex tasks. CO-3.Students can effectively use the UNIX/Linux system to accomplish typical personal, office, technical, and software development tasks. CO-4. Enable students to Monitor system performance and network activities. CO-5.Student.Effectively use software development tools including libraries, preprocessors, compilers, linkers, and make files.	
Course Paper Code- MS-66 Paper Name- Linux Administration and Programming Paper Code-	Course Outcomes M. Sc (IT) Semester-I Outcomes After completion of these courses students should be able to; CO-1.Enable students to Identify and use Linux utilities to create and manage simple file processing operations, organize directory structures with appropriate security CO-2.Students will be able to develop shell scripts to perform more complex tasks. CO-3.Students can effectively use the UNIX/Linux system to accomplish typical personal, office, technical, and software development tasks. CO-4. Enable students to Monitor system performance and network activities. CO-5.Student.Effectively use software development tools including libraries, preprocessors, compilers, linkers, and make files. CO-1 To present in detail the steps for the software development	
Course Paper Code- MS-66 Paper Name- Linux Administration and Programming Paper Code- MS-61	Course Outcomes M. Sc (IT) Semester-I Outcomes After completion of these courses students should be able to; CO-1.Enable students to Identify and use Linux utilities to create and manage simple file processing operations, organize directory structures with appropriate security CO-2.Students will be able to develop shell scripts to perform more complex tasks. CO-3.Students can effectively use the UNIX/Linux system to accomplish typical personal, office, technical, and software development tasks. CO-4. Enable students to Monitor system performance and network activities. CO-5.Student.Effectively use software development tools including libraries, preprocessors, compilers, linkers, and make files. CO-1 To present in detail the steps for the software development CO-2To present the students various testing strategies for the software	
Course Paper Code- MS-66 Paper Name- Linux Administration and Programming Paper Code- MS-61 Paper Name-	Course Outcomes M. Sc (IT) Semester-I Outcomes After completion of these courses students should be able to; CO-1.Enable students to Identify and use Linux utilities to create and manage simple file processing operations, organize directory structures with appropriate security CO-2.Students will be able to develop shell scripts to perform more complex tasks. CO-3.Students can effectively use the UNIX/Linux system to accomplish typical personal, office, technical, and software development tasks. CO-4. Enable students to Monitor system performance and network activities. CO-5.Student.Effectively use software development tools including libraries, preprocessors, compilers, linkers, and make files. CO-1 To present in detail the steps for the software development CO-2To present the students various testing strategies for the software CO-3 TO inculcate the designing process with various models	
Course Paper Code- MS-66 Paper Name- Linux Administration and Programming Paper Code- MS-61 Paper Name- Software	Course Outcomes M. Sc (IT) Semester-I Outcomes After completion of these courses students should be able to; CO-1.Enable students to Identify and use Linux utilities to create and manage simple file processing operations, organize directory structures with appropriate security CO-2.Students will be able to develop shell scripts to perform more complex tasks. CO-3.Students can effectively use the UNIX/Linux system to accomplish typical personal, office, technical, and software development tasks. CO-4. Enable students to Monitor system performance and network activities. CO-5.Student.Effectively use software development tools including libraries, preprocessors, compilers, linkers, and make files. CO-1 To present in detail the steps for the software development CO-2To present the students various testing strategies for the software CO-3 TO inculcate the designing process with various models	

Dapar Codo	CO 1 Analyse the asymptotic performance of algorithms
	CO-1. Anaryse the asymptotic performance of algorithms.
MS-62	CO-2. Write rigorous correctness proofs for algorithms.
Paper Name-	CO-3.Demonstrate a familiarity with major algorithms and data structures.
Computer	
Algorithms	CO-4. Apply important algorithmic design paradigms and methods of analysis.
	CO-5.Synthesize efficient algorithms in common engineering design situations.
Paper Code-	CO-1.To understand the general architecture of computers.
MS-42	CO-2.To understand the contrast and compare differing structures for
Paper Name-	operating systems.
Operating	CO-3.Understand and analyze theory and implementation of processes
System	resources control physical and virtual memory scheduling I/O and files.
Concepts	CO-4. General understanding of structure of modern computers
-	co-3.1 urpose, surdeture and functions of operating systems
Paper Code-	CO-1. To familiarize the students with the Operating System.
MS-63	
Paper Name-	CO-2. To demonstrate the process, memory, file and directory management issues
Minor Project	under the UNIX/LINUX operating system
Based On	
Linux	CO-3. To introduce LINUX basic commands
Administration	
and	CO-4. To make students how to make simple programs in LINUX and
Programming	administrative tack of LINUX
1 Togramming	
Paper Code-	CO-1 Ability to choose appropriate algorithm design techniques for solving
MS-64	nichlang
Paper Name-	
Minor Project	CO-2. Ability to understand how the choice of data structures and the algorithm
Rased On	design
Computer	CO-3. Methods impact the performance of programs. To clear up troubles the
Algorithms	usage of set of rules design methods including the
	CO-4 Grasping approach divide and overcome dynamic programming
	hashing and denominant and contain
	packtracking and department and certain.
	CO-5.To understand the variations among tractable and intractable problems.

Semester-II	
Course	Outcomes After completion of these courses students should be able to;
Paper Code- 65 E-Commerce MS- Paper Name-	CO-1. Students can explore the electronic based applications for the self employment purpose CO-2 can go with advertisement developments, shopping sites.
Paper Code- 45 Advance Java nd Network Programming	CO-1 Students can go for the networking programming and java programming based applications. CO-2 fruitful opportunities for the networking based apps.
Paper Code-60 MS-Paper Name-Advance DBMS	CO-1.TO have a fruitful career in database connectivity CO-2 .To facilitate with the students for the management capability in database
Paper Code-67 MS- Paper Name- Artificial Intelligence	CO-1 Job opportunities in machine learning, sensors, robotics, expert system CO-2 Image Processing, Pattern Recognitions are the key topics to choose.

Semester-III	
Course	Outcomes After completion of these courses students should be able to;
Paper Code-	CO-1. To inculcate the students for the software development using
MS-32	.NET
Paper Name-	CO-2. To improve the website designing skills with >NET and C#
.NET	
Framework and	
C#	

Papar Cada	CO 1 Demonstrate advanced knowledge of formal computation and its relationship
Taper Coue-	CO-1.Demonstrate advanced knowledge of formal computation and its relationship
MIS-09 Danar Nama	to languages
Theory of	CO-2.Distinguish different computing languages and classify their respective types
Computation	CO-3.Recognise and comprehend formal reasoning about languages
Computation	CO-4.Show a competent understanding of the basic concepts of complexity theory
Paper Code-	CO-1.Critical understanding of the theory of 2D and 3D transformations, projection
MS-39	and viewing
Paper Name-	CO-2. Ability to find & combine relevant sources and synthesise designs
Computer	CO-4. Detailed knowledge of shading and texture mapping algorithms
Graphics	CO-5. Broad knowledge of 3D modelling and rendering techniques
•	
Paper Code-	CO-1 To prepare the students for the Optimized solutions
MS-14	CO-2 Improving the students for Managerial Approaches
Paper Name-	
System	
Approach to	
Management	
and	
Optimization	
Techniques	
Paper Code-	CO-1 To inculcate the website designing concepts using .NET and C#
MS-33	CO_2 To prepare the students for connectivity
Paper Name-	CO-3 To prepare the students with the software development
Minor Project	
Based on .NET	
Framework and	
C#	
Paper Code-	C0-1 Ability to understand design and implement scene graphs
	CO-2. Practical skills in graphics programming including sc
NIS-59 Dener Neme	CO-3.General critical analysis, evaluation and synthesis of ideas for the design of
raper name-	their project
Ninor Project	CO-4. Representation of, planning for, and solution of problems
Dased on	
Computer	
Graphics	

M.SC.- IT IVth Sem Paper- Major Project

Outcome: Internship for the software Carrier. The best outcome is student can place in a software company as software engineer, website developer, and System analyst.

Course Outcomes PGDCA	
Course Outcomes	PO -1 Provide hands-on use of Microsoft Office 2010 applications Word PO-2 Students can go for the logic development using C-language
Paper Code- PGD-1101 Paper Name- Computer Fundamentals	 CO-1. Understand the fundamental hardware components that make up a computer's hardware and the role of each of these components CO-2.Describe the organization and operation of a computer processor, primary and secondary memory, peripheral devices and to give computer specifications. CO-3.Understanding the concept of input and output devices of Computers and how it works
	CO-4.Provide hands-on use of Microsoft Office 2010 applications Word, Excel, Access and PowerPoint. Completion of the assignments will result in MS Office applications knowledge and skills. CO-5.Understand the difference between an operating system and an application program, and what each is used for in a computer
Paper Code-PGD- 1102 Paper Name- Computer Programming Using C	CO-1.Students learn how build an algorithm for problems CO-2. Students learn basics of logic development using C-language CO-3.Enable students to create pictorial representations of the program CO-4. Enhance students programming concepts CO-5. students learn basics of file handling.
Paper Code-PGD- 1103 Paper Name-Data Base Management System	 CO-1. The key goal is to prepare students for a professional career in the field of data administration and database design. CO-2. To get acquaint students with good knowledge of DBMS. During the course, students will learn about database design and database handling activities. CO-3. Learn how to identify an organization's information processing requirements. CO-4. Learn how to develop a detailed specification for an information system that can fulfill these requirements.

	CO-4. Understand that the successful systems analyst needs to have a broad understanding of organizations, organizational culture, organizational change, organizational operations, and business processes.
Paper Code-PGD- 1104 Paper Name-Data Communication and Networks	 CO-1. Study the basic taxonomy and terminology of the computer networking and enumerate the layers of OSI model and TCP/IP model. CO-2. Acquire knowledge of Application layer and Presentation layer paradigms and protocols. CO-3. Study Session layer design issues, Transport layer services, and protocols. CO-4. Gain core knowledge of Network layer routing protocols and IP addressing. CO-5. Study data link layer concepts, design issues, and protocols.
Paper Code-PGD- PR-1105 Paper Name-LabI Based on PGD- 1102 AND PGD- 1101	 CO-1. Develops the ability to analyze a problem, develop an algorithm to solve it. CO-2. Develops the use of the C programming language to implement various algorithms CO-3. Develops the basic concepts and terminology of programming in general. CO-4. To introduce Basic Unix general purpose Commands CO-5. Completion of the assignments will result in MS Office applications knowledge and skills.
Paper Code-PGD- PR-1106 Paper Name-Lab Based on PGD- 1103	CO-1.Knowledge & Understanding : Databases and their design & development CO-2.Intellectual Cognitive/ analytical skills: Normalization of Databases. CO-3.Practical Skills :Using SQL and PL/SQL. CO-4.Transferable skills: Usage of DBMS design and administration. CO-5.Gather data to analyse and specify the requirements of a system.

Department of Fashion Designing

Programme Outcomes: B.Sc (Fashion Designing)

Department of	After successful completion of three year degree program in B.Sc (FD)
Fashion designing	a student should be able to;
Programme	PO-1. Students understand textile science, garment details, skill development
Outcomes	in the field of fashion design.
	PO2-Students have deep knowledge of design, arts and
	Elements of design.
	PO3-Students develop skills of sketching, pattern making and garment construction.
	PO4- Students understand the various department of apparel manufacturing technology.
	PO5- Students learned about different aspects of traditional embroideries.
	PO6- Students understand the knowledge about computer aided designing.
	PO7- students can be able to manage events like fashion shows, workshops
	and exhibitions.
	Programme Specific Outcomes
Programme	PSO-1. PSO1-Students can be designer in fashion industries.
Specific Outcomes	PSO2-students can be placed as a merchandiser in garment industries.
	PSO3- students can be served as a instructor of computer aided designing.
	PSO4-Students can choose teaching profession
	PSO5-self employment as an entrepreneur is possible.
	Course Outcomes B.Sc. (Fashion Designing)
	Semester-I
Course	Outcomes
	After completion of these courses students should be able to;
BOD- BASICS	CO-1. students understand various drawing tools and colouring
OF DESIGN	mediums
	CO-2. They understand types of lines and shapes
	CO-3, students understand colour and its dimensions
NCR- NEEDLE	CO-1. Students gain knowledge of basic embroidery stitches
CRAFT	CO-2 They acquire knowledge of various techniques of
	natchwork appliqué and open work
	CO 3 Students can apply these techniques to develop verious products
	CO-3. Students can apply these techniques to develop various products

GARMENT	CO-1. Students learn machines and tools used for sewing.
CONSTRUCTION-	CO-2. Students learn knowledge of different garment components.
GRC	CO-3. They learn various basic hand stitches, seams and seam
	finishes, different fullness treatments
TEXTILE	CO-1. They can gain knowledge of fibers, sources of fibers and
SCIENCE- TSC	their properties
	CO-2. Students can able to identify various classes of textiles fibers.
	CO-3. To help the students to identify various classes of textiles
	fibers.
GARMENT	CO-1. students can able to understand various fashion details
DESIGN	CO-2. Students can able to understand various fashion sketching
BASICS OF	CO-1. They can gain basic computer knowledge to students.
COMPUTER	CO-2. Students are able to understand concept of fundamentals and
	its applications in computer.
ENGLISH	English to the Fashion Designing students is to create general
	awareness among them about literature and its impact on their lives.
	At the same time, it is expected that the students, on reading this
	course, shall develop proficiency in reading and writing skills.

Semester-II	
BASICS OF	CO-1. students can understand various types of motifs
DESIGN-II	CO-2. Students can understand various types of motifs placements
NEEDLE	CO-1. They can gain knowledge of various techniques of smoking,
CRAFT-II	quilting and ribbon work.
	CO-2. Students can able to apply these techniques to develop various
	products.
	CO-1. They acquire knowledge of handling of different fabrics and
GARMENT	their suitability.
CONSTRUCTION-	CO-2. They acquire knowledge of different garment components.
II	CO-3. They learn various construction techniques.
TEXTILES	CO-1. Students gain knowledge of types of yarns
SCIENCE-II	CO-2. Types of spinning
	CO-3. Laundry reagents
	CO-4 students can be able to identify and remove various stains.
	CO-5. Prepare various stiffening agents wash and finish various
	garments.
GARMENT	CO-1. students can able to design children garments.
DESIGN-II	CO-2. Interpret style and estimate material for different garments

Semester-III	
FASHION	CO-1. To acquaint students with knowledge of CAD based
ILLUSTRATION ON COMPUTER	application in fashion designing.
GARMENT	CO-1. students can be able to understand Designing of garments
DESIGN-III	CO-3. Style interpretation and material estimation of different
	garments

TRADITIONAL	CO-1. They can learn knowledge of traditional textiles.
TEXTILES	CO-2. They can learn knowledge of different fabrics, stitches, motifs
	and colours used in traditional embroideries.
	CO-3. students can understand traditional /regional Crafts and
	Textiles
	CO-4. Care & storage techniques of Traditional Textiles and
	Costumes exhibited in various museums.
GARMENT	CO-1. They can acquire construction skills for children's garments.
CONSTRUCTION-	
III	
PATTERN	CO-1. They can gain knowledge of different aspects of Pattern
MAKING-I	Making such as sleeve and collars.
FABRIC	CO-1. They can learn knowledge of fabric manufacture and fabric
CONSTRUCTION	properties.
Ι	CO-2. Students can be able to understand fabric structures and to
	analyze them.
	CO-3. They can understand different weaves.
FASHION	CO-1. They can be aware about clothing culture.
CONCEPT -I	CO-2. They can acquire knowledge of clothing communication and
	fashion expression.

Semester-IV	
FASHION	CO-1. Students can be to understand knowledge of figure sketching
ILLUSTRATION	and fleshing
	CO-2. Rendering of textures
	CO-3. Sketching and illustration of Hand bags and Foot wears.
HISTORY OF	CO-1. To acquaint the students with different types of Ancient
INDIAN	Indian costumes.
COSTUMES	

TRADITIONAL	CO-1. They can learn knowledge of various motifs, colours and
EMBROIDERIES	designs used in Traditional embroideries of India.
	CO-2. They can learn knowledge of stitches and techniques used in
	traditional embroideries of India.
	CO-3. students can learn about with the different fabrics, stitches,
	motifs and colours used in traditional embroideries.
FABRIC	CO-1. They can acquire knowledge of fabric manufacture and fabric
CONSTRUCTION-II	properties.
	CO-2. Students can be able to understand fabric structures and to
	analysis them.
	CO-3. They acquire skills for various fabric construction
	techniques.
GARMENT	CO-1. Students acquire construction skills for basic garments for
CONSTRUCTION-IV	children.
PATTERN	CO-1. They can learn different aspects of Pattern making such as
MAKING-II	basic bodice block, style line and darts.
FASHION	CO-1. They can aware about clothing culture.
CONCEPTS-II	CO-2. They can gain knowledge of clothing communication and
	fashion expression.
KNITTING	CO-1. students can be able to develop practical skills of knitting

	Semester-V
PATTERN AND MARKER MAKING ON COMPUTER-I	CO-1. They can gain knowledge of pattern making software for making patterns and grading.CO-2. students acquire skill in computer aided pattern making.
PATTERN MAKING-III	CO-1. They can gain knowledge pattern and development skills to the students
LINE DEVELOPMENT & PORTFOLIO-I	CO-1. students can be to apply the principles and knowledge of garment design development to create a collectionCO-2. They can understand the meaning and importance of making a good portfolioCO-3. Identify, organize, and gather documentation to build portfolios
HISTORY OF WORLD COSTUMES GARMENT CONSTRUCTION-V	CO-1. the students can gain knowledge with different types of World Costumes. CO-1. They acquire construction skills for basic garments.
APPAREL MANUFACTURING TECHNOLOGY	CO-1. They learn about quality consciousness and awareness of quality parameters required for apparel quality products.
TEXTILE DYEING	CO-1. students can learn with different types of dyeing and methods of dyeing . CO-2. students can be able to develop practical skills of dyeing evaluation of fabric through colour fastness
INDUSTRIAL TRAINING	CO-1. students can be able to understand the textile industry setup and management.
	Semester-VI
PATTERN AND MARKER MAKING ON COMPUTER-II	CO-1. They can gain knowledge of pattern making software for making patterns and grading.

MARKETING	CO-1. students can gain knowledge of marketing and its environment
AND	CO-2. They can be able to understand the importance of fashion
MERCHANDISING	forecasting.
	CO-3. They can acquire knowledge about various brands of apparel and
	accessories
	CO-4 student can gain knowledge about various display materials and
	installations and different kind of storage displays
PATTERN	CO-1. student can gain knowledge about draping and grading skills.
MAKING-IV	
LINE	CO-1 students can be able to show case the collection
	CO^{-1} . Students can be able to show case the concerton.
DEVELOPMENT	CO-2. They understand the meaning and importance of making a good
& PORTFOLIO-II	
	CO-3. Identify and reflect on areas of their own learning from both formal
	and informal settings
	CO-4 Identify, organize, and gather documentation to build portfolios
GARMENT	CO-1. They acquire construction skills for basic garments.
CONSTRUCTION-VI	
TEXTILE	CO-1. students can acquire knowledge about different types of printing
PRINTING AND	and finishes applied on different fabrics
FINISHING	CO-2. students can be able to develop practical skills of printing and
	dveing
ENTREPRENEU	CO-1. To prepare the platform where the students view entrepreneurship
RSHIP	and self employment as a desirable career option.
DEVELOPMENT	CO-2. Stimulating the potential to develop entrepreneurial orientation to
	innovation and creativity.
	CO-3. students can orient with basic principles involved in starting and
	managing a new enterprise.

Programme Outcomes: M.Sc. Fashion Designing

Department of	After successful completion of two year degree program in	
	chemistry a student should be able to:	
Fashion Designing		
Programme Outcomes	 PO-1. Students understand industrial operation, machines and equipments in apparel industries through training and visits PO2-Students have deep knowledge of design, arts and Elements of design. PO3-Students develop skills of sketching, pattern making and garment construction. PO4-students can learn about fashion communication. PO5- Students understand the various department of apparel manufacturing technology. PO5- Students learned about different aspects of traditional embroideries. PO6- Students can be able to manage events like fashion shows, workshops and exhibition. 	
Programme Specific Outcomes		
Programme	PSO-1. PSO1-Students can be designer in fashion industries.	
Specific Outcomes	PSO2-students can be placed as a merchandiser in garment industries.	
1	PSO3- students can be served as a instructor of computer aided designing.	
	PSO4-Students can choose teaching profession	
	PSO5-self employment as an entrepreneur is possible.	
	PSO6- they can do work in textile or garment industries.	
Co	Course Outcomes M.Sc. (Fashion Designing)	
	Semester-I	
Course	Outcomes After completion of these courses students should be able to;	
APPAREL	CO-1. Students gain knowledge of Industrial operations.	
MANUFACTURING	CO-2. They can aware about machines and equipments used in apparel	
TECHNOLOGY	industry	
FASHION	CO-1. students can be to understand the intricacies of fashion industry	
COMMUNICATION	s s in statemes can be to anderstand the introduces of fashion industry	
ADVANCED	CO-1. students can be able to develop the patterns through dart manipulation	
PATTERN	CO-2. students can be able to understand & realize the importance of fitting.	
MAKING – I		

CONSTRUCTIO N OF WOMEN'S WEAR	CO-1. students can be able to develop skills in construction of fitted and stylized dresses.
DESIGN	CO-1. They have to learn design theme based collection.
ILLUSTRATION-I	CO-2. They can develop a personal style of illustration and presentation
	technique.
	CO-3. They have to be skills for portfolio presentations
COMPUTER	CO-1. Students can be able to understand the application of Adobe
DESIGNING – I	Photoshop and used the same to create various design compositions.

Semester-II		
Course Outcomes	After completion of these courses students should be able to;	
RETAIL	CO-1. Students gain knowledge about concept of Retailing &	
MARKETING &	Marketing To impart knowledge regarding the marketing environment	
MERCHANDISING	and consumer behaviour.	
KNITWEAR	CO-1. They can understand the characteristics of knitted fabrics	
DESIGN	CO-2. They can be able to understand the versatility of knit fabrics for	
TECHNOLOGY	end uses.	
	CO-3. They can gain knowledge of Knitting	
	CO-4 They can develop an understanding of the various knitted	
	structures	
ADVANCED	CO-1. Students can be able to develop patterns for men's wear	
PATTERN	garments.	
MAKING –		
CONSTUCTION	CO-1. Students can aquire knowledge male croqui and various	
OF MEN'S WEAR	postures.	
	CO-2. They can gain skill for development of inspirational designing	
	ability.	
COMPUTER	CO-1. students acquire skill in computer aided designing.	
DESIGNING-II	CO-2. Students can get knowledge about fashion design software such	
	as- tuka cad, reichpiece, corel draw, photoshop etc.	
Semester-III		
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Course	Outcomes After completion of these courses students should be able to;	
RESEARCH	CO-1. They can understand the frameworks for scientific inquiry,	
METHODS	research terms, concepts and techniques.	
	CO-2. Students understand the various methods for conducting	
	research	
	CO-3. Thay can gain knowledge about appreciate the benefits of	
	applied research	
STATISTICS	CO-1. Students can understand the role of statistic in research	
	CO-2 They can apply the knowledge of statistics in the analysis of	
	data	
	CO-3. They can learn the presentation and inter interpretation of	
	statistical data.	
DESIGN	CO-1. Students can understand croqui drawing of boys and girls 5 to	
ILLUSTRATION	10 years of age.	
(KID'S WEAR)	CO-2. They can learn to drape these figures in various ensembles.	
PATTERN	CO-1. Students can be able to develop skills in pattern making of kids	
MAKING (KID'S	garments of 5 to 10 years old boys and girls.	
WEAR)		
GARMENT	CO-1. The students can be able to develop skills in construction of	
CONSTRUCTION	kids garments of 5 to 10 years old.	
(KID'S WEAR)		
COMDUTED	CO.1 Students can acquire skill in computer aided pattern making	
AIDED	CO 1. Students can acquire skin in computer anded pattern making.	
DESIGNING		
Semester-IV		
ENTREPRENEUR	CO-1 They can get theoretical information about the role of	
SHIP	entrepreneur in economic development.	
DEVELOPMENT	CO-2 students can understand the process of setting up of a private	
	enterprise and develop required entrepreneurial skills.	
	CO-3 students can be motivate to opt for entrepreneurship and self-	
	employment as alternate career options.	
QUALITY	CO-1 students can be educated about the need and importance of	
CONTROL AND	quality control and standardization in Apparel industry.	
STANDARDIZATION	CO-2 They can get theoretical information to students about the	
	various quality standards of the Apparel Industry.	

	CO-3 students can familiarize about the various National and
	International standards and organizations that formulate them.
TEXTILE	CO-1 students can understand and apply the knowledge of textile
DESIGN DEVELOPMENT	design development.
PATTERN	CO-1 the students can understand draping methods of designer
MAKING THROUGH DRAPING	dresses.

Programme Outcomes: Post Graduate Diploma in Fashion Designing (PGDFD)

Department of	After successful completion of one year diploma program in FD a student	
Fashion designing	should be able to;	
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D		
Programme	PO-1. Students understand garment details, skill development in the field	
Outcomes	of fashion design.	
	PO2-Students have deep knowledge of design, arts and	
	Elements of design.	
	PO3-Students develop skills of sketching, pattern making and garment	
	construction.	
	PO4- Students understand the various department of apparel manufacturing	
	technology.	
	Programme Specific Outcomes	
Programme Specific	PO-1. Students can be designer in fashion industries.	
Outcomes	PO2-students can work in garment industries.	
	PO3- Students can choose teaching profession	
	PO5-self employment as an entrepreneur is possible.	
	Course Outcomes DCDED	
	Course Outcomes- FGDFD	
	Semester-I	
Course Outcomes	After completion of these courses students should be able to;	
PATTERN MAKING-I	CO-1 Students can get knowledge about different aspects of Pattern	
(PRACTICAL)	Making	
	CO-2 Students can get knowledge about drafting and adaptation of skirts	
	CO-3 Students are able to do Dart manipulation	

GARMENT CONSTRUCTION (PRACTICAL)	CO-1 Students can get learn about various construction techniques. CO-2 Applying these techniques in garment construction.
FASHION ILLUSTRATION (PRACTICAL)	CO-1 Students are able to understand figure sketching, illustration techniques for various garment details.
CAD-I (PRACTICAL)	CO-1 Students can acquaint with knowledge of tools of Corel draw and Photoshop.
GARMENT DESIGN (PRACTICAL)	CO-1 Students can get knowledge of various fashion details, designing various outfits, and specification Sheet.
FASHION DESIGN AND PRODUCTION (THEORY)	CO-1 Students can understand design fundamentals, elements and principles of design. CO-2 Students can get knowledge of different garment components. CO-3 Students can be aware of quality parameter required for apparel
FASHION FUNDAMENTALS (THEORY)	products. CO-1 Students can be aware regarding fashion, Style and Trends. CO-2 Fashion adoption, fashion movement, fashion prediction.
	Semester-II
PATTERN MAKING-II (PRACTICAL)	CO-1 Students can acquire knowledge about commercial paper patterns, grading and draping
GARMENT CONSTRUCTION (PRACTICAL)	CO-1 Students can get knowledge about application of various construction techniques in garment construction.
LINE DEVELOPMENT (PRACTICAL)	CO-1 To enable the students to apply the principles and knowledge of garment design development to create a collection
CAD-II (PRACTICAL)	CO-1 Students acquire skill in computer aided pattern making and grading.
FASHION MARKETING AND MERCHANDISING (THEORY)	CO-1 Students can get necessary knowledge, skills, values and attitudes of Fashion Marketing and Merchandising.
HISTORIC COSTUMES	CO-1 Students can acquire different types of Indian and world costumes of different periods.

PG Department of Punjabi

Programme Outcomes: B.A(Punjabi)

Department Of	After successful completion of three years degree programmed in
Punjabi	B.A(Punjabi) a student should be able to;
Programme	PO-1. The students know about vocabulary and basic grammar.
Outcomes (Gen Pbi)	PO-2. The students know how to study language and literature.
	PO-3.The Students know the difference between Prose And Poetry as
	a form of literature.
	PO-4.To develops the skills of students in Punjabi literature.
	PO-5.To enriches vocabulary through learning literature.
	PO-6.To enriches Mother Language among the students.
Programme Specific Outcomes	
Programme Specific	PSO-1.The Students know the forms of literature.
Outcomes(Ele.Pbi)	PSO-2. The Students get the knowledge of literary values.
Outcomes(Ele.Pbi)	PSO-2. The Students get the knowledge of literary values. PSO-3.The students can analyze/criticize literature.
Outcomes(Ele.Pbi)	PSO-2. The Students get the knowledge of literary values.PSO-3.The students can analyze/criticize literature.PSO-4.The students know well how to study Language and literature.
Outcomes(Ele.Pbi)	PSO-2. The Students get the knowledge of literary values.PSO-3. The students can analyze/criticize literature.PSO-4. The students know well how to study Language and literature.PSO-5. After the completion of the course the students are ready to
Outcomes(Ele.Pbi)	PSO-2. The Students get the knowledge of literary values.PSO-3.The students can analyze/criticize literature.PSO-4.The students know well how to study Language and literature.PSO-5.After the completion of the course the students are ready to take up the special studies in language and literature.
Outcomes(Ele.Pbi)	 PSO-2. The Students get the knowledge of literary values. PSO-3. The students can analyze/criticize literature. PSO-4. The students know well how to study Language and literature. PSO-5. After the completion of the course the students are ready to take up the special studies in language and literature. PSO-6. The students acquaint with Punjabi Language for further
Outcomes(Ele.Pbi)	 PSO-2. The Students get the knowledge of literary values. PSO-3. The students can analyze/criticize literature. PSO-4. The students know well how to study Language and literature. PSO-5. After the completion of the course the students are ready to take up the special studies in language and literature. PSO-6. The students acquaint with Punjabi Language for further studies in Punjabi language and Literature.

Course Outcomes B.A (Punjabi)

Semester-1	
Course Outcomes	After completion of these courses students should be able to ;
Paper Code-PBC	CO-1.By reading Modern poetry students are able to understand
Gen Punjabi	issues of Modernism.
	CO-2. The students get the literary sense and comprehension of the
	subject.
	CO-3.The students get the basics knowledge of phonology.
Paper Code-PBI	CO-1.The students know the One Act Play as a form of literature.
Ele Pbi	CO-2. The students enrich their aesthetic sense by reading Modern
	poetry.
	CO-3.The students get strong on vocabulary and basic grammar.
Semester-II	
Course Outcomes	After completion of these courses students should be able to ;
Paper Code-PBC	CO-1. The students know the Story as a form of literature.
Gen Punjabi	CO-2. The students get the basics knowledge of linguistics.
	CO-3. The students know the nature of the subject in comparison to
	the secondary level.

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Paper Code-PBI	CO-1. The students enrich their aesthetic sense by reading Modern
Ele Pbi	poetry.
	CO-2. The students can analyze poetry as a form of literature.
	CO-3. The students get more knowledge of structure and semantics.

Semester-III	
Course	Outcomes
	After completion of these courses students should be able to ;
Paper Code-PBC	CO-1. The students know the Prose as a form of literature.
Gen Punjabi	CO-2. The students know the difference aspects of grammar.
	CO-3.The students also know about word formation and vocabulary.
Paper Code-PBI	CO-1.The Students can analyze the advanced stage of Mediaeval
Ele Pbi	Poetry.
	CO-2. The students can analyze the literary forms.
	CO-3.The students know prose as form of literature.
Semester-IV	

	Semester-1v
Course	Outcomes
	After completion of these courses students should be able to ;
Paper Code-PBC	CO-1. The students know the Play as a form of literature.
Gen Punjabi	CO-2.The students know Human life at the Universal Level.
	CO-3.The students also know about word formation and vocabulary
Paper Code-PBI	CO-1.The students can understand the basic of criticisms of
Ele Pbi	Mediaeval poetry.
	CO-2.The students know prose as form of literature.
	CO-3. The students develop their basic skills in language.
Somestor V	

Semester-V

Course	Outcomes
	After completion of these courses students should be able to ;
Paper Code-PBC	CO-1.The students know the Poetry as a form of literature.
Gen Punjabi	CO-2.The students develop the sense of humanity with the study of
-	Poetry.
	CO-3.The students also know well how to study language and
	literature.
Paper Code-PBI	CO-1.The students also know about the different streaks of human
Ele Pbi	life.
	CO-2.The students can analyze the literary forms.
	CO-3. The students get know the literary values.
Semester-VI	

Semester- v1	
Paper Code-PBC	CO-1.The students can analyze Fiction as a form of literature.
Gen Punjabi	CO-2. The Students increase their sense of humanity with the study
	of Fiction.
	CO-3.The students also know about the word formation and
	vocabulary.
Paper Code-PBI	CO-1.The students with Punjabi Language for further studies in
Ele Pbi	Punjabi language and Literature.
	CO-2.The students are also able to do other certificate courses with
	the knowledge of Punjabi.

CO-3.The students know the Drama as a form of literature.
CO-4. The students develop their basic skills in language.

Course Outcomes M.A.(Punjabi)

Semester-I	
Course	Outcomes
	After completion of these courses students should be able to ;
Paper Code-MPS	CO-1.The students know the scope of literary theory and the entire
	picture about literature.
	CO-2. The students are ready for further competitive exam.
	CO-3.The students can join educational field for teaching or research.
	CO-4.The students know the esthetics and innovative use of
	language.
Paper Code-SSP	CO-1. The students know the major movements and figures of
	Punjabi literature through study of comparative literature.
	CO-2. The students can think about human life with universal
	attitude.
	CO-3. The students can join educational fields for research.
Paper Code-MPK	CO-1.To instills values and develops human concern in student
	through exposure to literary text.
	CO-2.To creates literary sensibility and emotional response to the
	literary text and implant sense of appreciation of literary texts.
Paper Code-PNA	CO-1.The students know the social issues with critical attitude.
	CO-2. The Students know the Dramatic form of literature.
	CO-3.The students can think about the human psychology.

Semester-H

Course	Outcomes
	After completion of these courses students should be able to ;
Paper Code-APS	CO-1.To introduces students to major movements of Modern Punjabi
	Literature.
	CO-2. The students know the literary movements of Punjab and its
	history.
	CO-3. The students know about the different streaks of Human life.
Paper Code-APV	CO-1.The students know complex nature.
_	CO-2. The student's attitude is humane.
	CO-3.The students know to various sub-disciplines of linguistic.
Paper Code-MPK	CO-1.To instills values and develops human concern in student
	through exposure to literary text.
	CO-2.To creates literary sensibility and emotional response to the
	literary text and implant sense of appreciation of literary texts.
Paper Code-PNA	CO-1.The students know the social issues with critical attitude.
	CO-2. The Students know the Dramatic form of literature.

	CO-3.The students can think about the human psychology.	
	Semester-III	
Course	Outcomes	
	After completion of these courses students should be able to ;	
Paper Code-BVP	CO-1.The students know the Punjabi language	
	phonological, morphological and syntactical perspectives.	
	CO-2. The students acquaints with the method of teaching.	
	CO-3.The students acquaints with language.	
Paper Code-SLS	CO-1.The students know the cultural aspect of Punjab through	
	literary works.	
	CO-2.the students know about the different cultural values.	
	CO-3.To instills values and develop human concern in student	
	through expose to culture and folklore.	
Paper Code-APK	CO-1.The students know literary sensibility and innovative use of	
	language by writers.	
	CO-2. The students can analyze the literary forms.	
	CO-3.The students know prose as form of literature.	
Paper Code-PNR	CO-1.The students know the social issues with critical attitude.	
	CO-2. The Students know the Dramatic form of literature.	
	CO-3.The students can think about the human psychology.	
Somostor-IV		

	Semester-IV
Course	Outcomes
	After completion of these courses students should be able to ;
Paper Code-BPG	CO-1.To introduces students to major movements of Modern Punjabi
	Literature.
	CO-2.The students know the literary movements of Punjab and its
	history.
	CO-3.The students know about the different streaks of Human life.
Paper Code-PLL	CO-1.To instills values and develops human concern in student
	through exposure to literary text.
	CO-2.To creates literary sensibility and emotional response to the
	literary text and implant sense of appreciation of literary texts.
Paper Code-APK	CO-1.The students know literary sensibility and innovative use of
	language by writers.
	CO-2. The students can analyze the literary forms.
	CO-3.The students know prose as form of literature.
Paper Code-PNR	CO-1.The students know the social issues with critical attitude.
	CO-2.The Students know the Dramatic form of literature.
	CO-3. The students can think about the human psychology.

PG Department of Hindi

Programme Outcomes: B.A. Hindi

Department of Hindi- After successful completion of three year degree program in Hindi student should be able to

PO-1. छात्रों को हिंदी भाषा के उद्धव, विकास तथा विभिन्न रूपों एवं बोलियों का ज्ञान प्राप्त हुआ। PO-2. छात्रों को काव्यशास्त्र का सैद्धांतिक एवं अनुप्रयोगात्मक ज्ञान प्राप्त हुआ। PO-3. छात्रों में हिंदी साहित्य के इतिहास के विकासक्रम और लेखन परंपरा के संबंध में यथोचित दृष्टिकोण विकसित हुआ। PO-4. छात्रों को भाषा विज्ञान के माध्यम से हिंदी भाषा के व्यवस्थित और यथोचित प्रयोग का ज्ञान प्राप्त हुआ। PO-5. छात्रों हिंदी गद्य और पद्य को विभिन्न साहित्य विधाओं से परिचित हुए। PO-6. छात्रों में हिंदी भाषा और साहित्य को समझने, अध्ययन, आस्वादन और मूल्यांकन की क्षमता निर्माण हुई। PO-7. साहित्य की विभिन्न विधाओं के माध्यम से छात्रों का भावनात्मक विकास हुआ।

PO-8. छात्रों में हिंदी साहित्य के माध्यम से नैतिक मूल्य, राष्ट्रीय मूल्य तथा सामाजिक मूल्यों के प्रति आस्था निर्माण हई।

PO-9. छात्रों को सरकारी कार्यालयों में प्रयुक्त कार्यालयीन हिंदी भाषा का परिचय प्राप्त हुआ।

Programme Specific Outcomes

PSO-1. हिंदी भाषा का व्यवस्थित और यथोचित ज्ञान। PSO-2. भावनात्मक और सौंदर्यात्मक विकास। PSO-3. निवेदक और सूत्र संचालक। PSO-4.पटकथा लेखक, संवाद लेखक, विज्ञापन लेखक। PSO-5. प्रकाशक, संपादक, संवाददाता। PSO-6. दुभाषिया, अनुवादक, प्रूफ शोधक। PSO-7. एम.ए, बी.एड, पत्रकारिता, अनुवाद और दूरसंचार, पर्दावका और पदवी। PSO-8. मूल्य संवर्धन: नैतिक, राष्ट्रीय,सामाजिक मूल्यों का संवर्धन। PSO-9. राष्ट्रीय एकात्मता, समानता, बंधुता, उत्तरर्दायत्व और वैज्ञानिकता का विकास। PSO-10.नागरी सेवा परीक्षा।

Programme Outcomes:B.A. Hindi

Department of Hindi: After successful completion of three year degree program in Hindi a student should be able to

Course Outcomes - B.A. Hindi (Elective) Semester-1

हिंदी(ऐच्छिक)

CO-1 आदिकाल की प्रवृत्तियों और परिस्थितियों की जानकारी उपलब्ध हुई छात्रों को हिंदी के गद्य और पद्य रचनाकारों का परिचय प्राप्त हुआ।

CO-2 छात्रों को इतिहास के कालखण्डों और उनके नामकरण की जानकारी प्राप्त हई।

CO-3 छात्रों को पारिभाषिक शब्दावली, पर्यायवाची शब्द,समानार्थक शब्दों आदि का परिचय प्राप्त हुआ। CO-4 छात्रों में हिंदी कहानी का स्वरूप, तत्व और भेद आदि मानदण्डों के आधार पर समीक्षा की क्षमता का निर्माण हुआ।

CO-5 छात्रों को हिंदी भाषा को समझने, अध्ययन, आस्वादन और मूल्यांकन की क्षमता विकसित हुई। CO-6 छात्रों का भावनात्मक और सौन्दर्यात्मक विकास हुआ।

Semester-II

CO-1 छात्रों को मीराबाई और तुलसी की काव्यगत विशेषताओं का परिचय प्राप्त हुआ। CO-2 छात्रों को वृंदावनलाल वर्मा के उपन्यास झांसी की रानी के अध्ययन के पश्चात उपन्यास के मूल्यांकन की दृष्टि विकसित हुई।

CO-3 उपन्यास की परिभाषा, तत्व और वर्गीकरण के विषय में जानकारी प्राप्त हुई।

CO-4. छात्रों को निजी पत्र लेखन का ज्ञान प्राप्त हुआ।

CO-5 छात्रों को भक्तिकाल की प्रवृत्तियों और परिस्थितियों की जानकारी प्राप्त हुई।

CO-6 छात्रों में साहित्य कृतियों के शिल्प और सौन्दर्य को देखने की दृष्टि विकसित हई।

Semester-III

(**ऐच्छिक हिंदी**) CO-1 छात्रों को एक सत्य हरिश्चन्द्र नाटक की प्रासंगिकता परिचित करवाया गया। CO-2. छात्रों में हिंदी नाटक का स्वरूप, तत्व् आदि मानदंडों के आधार पर समीक्षा की क्षमता का निर्माण हुआ। CO-3. छात्रों को छायावादी युग के कवियों की कृत्तियों तथा उनके योगदान का परिचय प्राप्त हुआ। CO-4. छात्रों को रीतिकाल की परिस्थितियों, प्रवृत्तियों, नामकरण तथा रीतिकाल के प्रमुख कवियों से अवगत करवाया गया। CO-5. पारिभाषिक शब्दावली, संधि विच्छेद, समाकृति भिन्नार्थक शब्द युग, वाक्य शोधन आदि के परिचय से छात्रों की भाषा समृद्ध हुई। CO-6. छात्रों को हिंदी के पद्य रचनाकारों का परिचय प्राप्त हुआ।

Semester-IV

CO-1. छात्रों को महादेवी वर्मा, अजेय,धर्मवीर भारती के काव्यत वैशिष्टय से अवगत हुए।

CO-2. छात्रों को हिंदी साहित्य के इतिहास के आधुनिक काल की प्रवृत्तियों से परिचित हुए।

CO-3. छात्रों को एकांकी के तत्व, परिभाषा, वर्गीकरण आदि मानदंडों के आधार पर समीक्षा की क्षमता का विकास हुआ।

CO-4. छात्रों को हिंदी के पद्य रचनाकारों का परिचय प्राप्त हुआ।

CO-5. छात्रों में हिंदी साहित्य और रचनाकारों के प्रति रूचि का निर्माण हुआ। CO-6. छात्रों को हिंदी के प्रशासकीय पत्रों के स्वरूप का ज्ञान प्राप्त हुआ।

Semester-V

CO-1. छात्रों में दिनकर की काव्यकृति कुरूक्षेत्र के समीक्षात्मक अध्ययन के पश्चात काव्य के आस्वादन, अध्ययन और मूल्यांकन की दृष्टि विकसित हुई। CO-2. छात्रों को महाकाव्य, खण्डकाव्य एवं गीतिकाव्य के तात्विक स्वरूप का ज्ञान प्राप्त हुआ। CO-3. छात्र गद्य की विभिन्न विधाओं के स्वरूप से परिचित हुए। CO-4. हिंदी के प्रमुख अलंकारों का सामान्य परिचय प्राप्त करने के पश्चात छात्रों में सौंदर्यात्मक दृष्टि का विकास हुआ। CO-5. छात्र कुरूक्षेत्र काव्य की प्रासंगिकता से परिचित हुए। CO-6. छात्रों में राष्ट्रीय ऐक्य, सामाजिक उत्तदायित्व, वैज्ञानिकता आदि मूल्यों की प्रतिष्ठा हुई।

Semester-VI

CO-1. छात्रों ने गद्य की विभिन्न विधाओं के उद्भव व विकास की जानकारी प्राप्त की। CO-2.छात्रों में हिंदी साहित्य और रचनाकारों के प्रति रूचि का निर्माण हुआ। CO-3.छात्रों को देवनागरी लिपि के उद्भव, विकास, वैज्ञानिकता, दोषों के विषय में जानकारी प्राप्त की। CO-4.प्रमुख छंदों के सामान्य परिचय के माध्यम से छात्र काव्य में छंदों के महत्त्व से अवगत हुए। CO-5.साहित्य की विभिन्न विधाओं के माध्यम से छात्रों का भावनात्मक विकास हुआ। CO-6.छात्रों को हिंदी गद्य रचनाकारों का परिचय प्राप्त हुआ।

Programme Outcomes:M.A. Hindi

Department of Hindi: After successful completion of two year PG degree program in Hindi a student should be able to;

PO-1.छात्रों को हिंदी साहित्य के विभिन्न रूपों, विधाओं, प्रवृत्तियों, रचनाओं और रचनाकारों का परिचय प्राप्त हुआ। PO-2.भारतीय एवं पाश्चात्य साहित्यशास्त्र का सैद्धांतिक और अनुप्रयोगात्मक ज्ञान प्राप्त हुआ। PO-3. समीक्षात्मक दृष्टिकोण विकसित हुआ। PO-4.भाषा और साहित्य के अध्ययन, आस्वादन और मूल्यांकन की क्षमता का विकास हुआ। PO-5.साहित्य और युग जीवन का संबंध विशद करने का दृष्टिकोण विकसित हुआ। PO-6.साहित्य का विभिन्न विधाओं के माध्यम से छात्रों का भावात्मक विकास हुआ। PO-7.छात्रों में हिंदी साहित्य के माध्यम से चैतिक मूल्य, राष्ट्रीय मूल्य तथा सामाजिक मूल्यों के प्रति आस्था निर्माण हुई। PO-8.छात्रों को सरकारी कार्यालयों में प्रयुक्त कार्यालयीन हिंदी भाषा का परिचय प्राप्त हुआ। PO-9.अनुसंधान करने की क्षमता निर्माण हुई। PO-10.अन्वादक, दुभाषियां बनने की क्षमता निर्माण हुई।

Programme Specific Outcomes:M.A. Hindi

PSO-1.हिंदी भाषा का व्यवस्थित और यथाेचित ज्ञान। PSO-2.भावात्मक और साैंदर्यात्मक विकास। PSO-3.अनुसंधान कर्ता। PSO-4.निवेदक और सूत्र संचालक। PSO-5.पटकथा लेखक, संवाद लेखक, विज्ञापन लेखक। PSO-6.प्रकाशक, संपादक, संवाददाता। PSO-6.प्रकाशक, संपादक, संवाददाता। PSO-7.दुभाषिया, अनुवादक, प्रूफ शोधक। PSO-8.मूल्य संवर्धनःनैतिक,राष्ट्रीय, सामजिक मूल्यों का संवर्धन। PSO-9.राष्ट्रीय एकात्मता, समानता बंधुता, उत्तरदायित्व और वैज्ञानिकता का विकास। PSO-10.सृजनात्मक लेखन। PSO-11. NET/SET परीक्षा। PSO-12.अध्यापक, प्राध्यापक, हिंदी अधिकारी, हिंदी सलाहकार, हिंदी निदेशक। PSO-13. प्रबोधक, उपदेशक।

Course outcomes M.A Hindi

Semester-1 Paper- I : (HSM) हिंदी साहित्य का आदिकाल व मध्यकाल

CO-1.छात्रों को हिंदी साहित्य के इतिहास लेखन की परंपरा का परिचय प्राप्त हुआ। CO-2.छात्रों को हिंदी साहित्य के इतिहास के कालखण्डों एवं उनके नामकरण का परिचय प्राप्त हुआ। CO-3.छात्रों को हिंदी साहित्य के आदिकाल, भक्ति काल तथा रीतिकाल के प्रतिनिधि रचनाकारों का महत्व, प्रदेय, प्रभाव आदि का ज्ञान प्राप्त हुआ।

CO-4.छात्रों को हिंदी साहित्य के विकासक्रम तथा साहित्य के परिवर्तनों के कारणों का ज्ञान प्राप्त हुआ। CO-5.छात्रों को मध्यकालीन युग की सामाजिक, राजनीतिक, धार्मिक, साहित्यिक परिस्थितियों का ज्ञान प्राप्त हुआ।

CO-6.छात्रों में साहित्य और युग जीवन का संबंध विशद करने की क्षमता का निर्माण हुआ।

Paper-II : (AHK) आधुनिक हिंदी काव्य

CO-1.छात्रों को आधुनिक हिंदी काव्य (द्विवेदी, प्रगतिवाद और प्रयोगवाद) की प्रवृतियों का परिचय प्राप्त ह्आ। CO-2. छात्रों को आधुनिक युग के प्रतिनिधि रचनाकारों के व्यक्तित्व, कृतित्व और महत्त्व के विषय में जानकारी प्राप्त हुई। CO-3. छात्र आधुनिक काव्य के प्रकारों से अवगत हुए। CO-4.छात्रों में काव्य के आस्वादत, अध्ययन और मूल्यांकन की यथोचित दृष्टि विकसित हुई। CO-5.छात्रों को आधुनिक युग की सामाजिक, राजनीतिक, धार्मिक और साहित्यिक परिस्थितियों का ज्ञान प्राप्त हुआ। CO-6.छात्रों में काव्य के प्रति रूचि उत्पन हुई।

Paper-III: (AGS) आधुनिक हिंदी गद्य साहित्य

CO-1.छात्रों को गद्य विधाओं के विकासक्रम की जानकारी प्राप्त हुई। CO-2.छात्र गद्य विधाओं के (नाटक, निबन्ध और उपन्यास)के तात्विक स्वरूप से परिचित हुए। CO-3.छात्रों को एेतिहासिक विकास के परिप्रेक्ष्य में रचना विशेष के महत्त्व को समझने की और मूल्यांकन की क्षमता प्राप्त हुई। CO-4.छात्रों में उपन्यासों, नाटकों में अभिव्यक्त जीवन विषयक मूल्यांकन की क्षमता विकसित हुई। CO-5.छात्रों में अलिक चिंतन की क्षमता विकसित हुई। CO-6. छात्रों में गोदान(उपन्यास),आषाढ़ का एक दिन(नाटक) और चिंतामणि भाग 1 (निबंध) के अध्ययन के पश्चात साहित्य के आस्वादन की क्षमता का निर्माण हआ।

Paper -IV : (BKS) भारतीय काव्यशास्त्र के सिद्धांत और हिंदी आलोचक

CO-1.छात्रों को भारतीय काव्य शास्त्र के स्वरूप का ज्ञान प्राप्त हुआ। CO-2.छात्रों को काव्य के हेतु तथा का प्रयोजनाें का परिचय प्राप्त हुआ। CO-3.छात्रों को काव्य के विभिन्न अंगों तथा शब्दशक्तियों का ज्ञान प्राप्त हुआ। CO-4.छात्रों को काव्य के विभिन्न संप्रदायों के स्वरूप, परम्परा तथा मुख्य स्थापनाओं के विषय में जानकारी प्राप्त हुई। CO-5.छात्रों में साहित्य के रसास्वादन की दृष्टि विकसित हुई। CO-6.छात्रों में मौलिक चिंतन की क्षमता विकसित हुई।

Semester -II

Paper – I: (HSK) हिंदी साहित्य आध्निक का काल

CO-1.छात्रों को आधुनिक युग की सामाजिक, धार्मिक, राजनीतिक, साहित्यिक परिस्थितियों का ज्ञान हुआ। CO-2.छात्रों को हिंदी गद्य के आविर्भाव के कारणों का परिचय प्राप्त हुआ। CO-3.छात्रों को हिंदी साहित्य के आधुनिक युग के रचनाकारों का महत्त्व प्रदेय, प्रभाव आदि का ज्ञान प्राप्त हुआ। CO-4.छात्रों को हिंदी गद्य के विकासक्रम का परिचय प्राप्त हुआ। CO-5.छात्र आधुनिक काल के साहित्य की उपलब्धियों तथा सीमाओं से अवगत हुए। CO-6.छात्रों को गद्य की विषय वस्तु, भाषा शैली, विचारधारा, प्रभाव आदि का ज्ञान प्राप्त हुआ। Papar-II: (AHK) आधुनिक हिंदी काव्य

CO-1.छात्रों को आधुनिक हिंदी काव्य(छायावाद, प्रगतिवाद) की प्रवृत्तियों का परिचय प्राप्त हुआ। CO-2.छात्रों को आधुनिक युग के रचनाकार निराला और मुक्तिबोध के महत्त्व और प्रभाव आदि का ज्ञान प्राप्त हुआ। CO-3. छात्रों को आधुनिक काव्य के प्रकारों की जानकारी प्राप्त हुई। CO-4. छात्रों में काव्य के प्रति रूचि में वृद्धि हुई। CO-5.छात्रों में अध्ययन और मूल्यांकन की यथोचित दृष्टि विकसित हुई। CO-6.छात्रों को आधुनिक युग की परिस्थितियों(सामाजिक, राजनीतिक, धार्मिक और साहित्यिक) का ज्ञान प्राप्त हुआ।

Paper-III : (AGS) आधुनिक हिंदी गद्य साहित्य

CO-1.छात्र उपन्यास नाटक और निबंध विधा की विभिन्न प्रवृत्तियों से अवगत हुए। CO-2.छात्रों में उपन्यास और नाटक के आस्वादन, अध्ययन और मूल्यांकन की क्षमता विकसित हुई। CO-3.छात्रों को हिंदी उपन्यासों और नाटकों में अभिव्यक्त मानव जीवन का परिचय प्राप्त हुआ। CO-4.छात्रों में समीक्षात्मक दृष्टिकोण का निर्माण हुआ। CO-5.छात्रों को गद्य विधाअाें (उपन्यास, नाटक और निबंध) के विकासक्रम की जानकारी प्राप्त हुई। CO-6.छात्र कहानियों के मनोवैज्ञानिक पक्ष से परिचित हुए।

Paper-IV : (PKS) पाश्चात्य काव्यशास्त्र एवम समकालीन आचोलना सिद्धांत

CO-1.छात्रों को पाश्चात्य काव्यशास्त्र का परिचय प्राप्त हुआ। CO-2.छात्रों को पाश्चात्य काव्यशास्त्र के विकासक्रम का ज्ञान प्राप्त हुआ। CO-3.छात्रों को पाश्चात्य काव्यशास्त्र की समीक्षा का महत्त्व ज्ञात हुआ। CO-4.छात्रों को पाश्चात्य जगत के प्रमुख अालोचकों के विषय में जानकारी प्राप्त हुई। CO-5.छात्रों को अालोचना की विभिन्न प्रणालियों का ज्ञान प्राप्त हुआ। CO-6.छात्रों में समीक्षात्मक दृष्टिकोण विकसित हुआ।

Semester-III

Paper 1: (BHV) भाषा विज्ञान एवम हिंदी भाषाओं का अध्ययन CO-1.छात्रों को भाषा के स्वरूप, परिभाषा और विशेषताओं की जानकारी प्राप्त हुई। CO-2.छात्रों को भाषा के विविध रूपों का ज्ञान प्राप्त हुआ। CO-3.छात्रों में भाषा विज्ञान के वैज्ञानिक अध्ययन की दृष्टि निर्मित हुई। CO-4.छात्रों को भाषा विज्ञान के अध्ययन की प्राचीन और आधुनिक परम्परा का परिचय प्राप्त हुआ। CO-5.छात्रों को विश्व भाषा परिवार का परिचय प्राप्त हुआ। CO-6.छात्रों को आर्य तथा आर्याेतर परिवारों की मुख्य भाषाओं का सामान्य परिचय हुआ।

Paper-II: (PMK) प्राचीन एवमं मध्यकालीन काव्य

CO-1.छात्रों को प्राचीन तथा मध्ययुगीन काव्य कृतियों का परिचय प्राप्त हुआ। CO-2.छात्रों को आदिकाल और भक्तिकाल के साहित्य की प्रवृत्तियों की जानकारी प्राप्त हुई। CO-3.छात्र कबीर, सूरदास, मीराबाई की काव्य कृतियों विशेष रूप से परिचित हुए। CO-4.छात्र प्राचीन तथा मध्य युग की भाषा से अवगत हुए। CO-5.छात्र प्राचीन तथा मध्य युग की काव्य परम्परा से परिचित हुए। CO-6.छात्रों में काव्य के प्रति समीक्षात्मक दृष्टि विकसित हुई।

Paper-III: (SAK) सूरदास और अन्य कृष्ण भक्त कवि CO-1. छात्रों को सूरदास के व्यक्तित्व और कृतित्व का परिचय प्राप्त हुआ। CO-2. छात्र सूरदास की काव्यगत शक्ति और सीमाओं से परिचित हुए। CO-3. छात्र सूरदास के काव्य की प्रासंगिकता से अवगत हुए। CO-4. छात्र कुछ अन्य कृष्ण भक्त कवियों के व्यक्तित्व और कृतित्व से भी परिचित हुए। CO-5. छात्रों में कृष्ण भक्त कवियों के समीक्षण की यथोचित दृष्टि का विकास हुआ। CO-6. छात्रों में कृष्ण काव्य के प्रति रूचि में वृद्धि हुई।

Paper-IV : (MLA) मीडिया लेखन एवं अन्वाद विज्ञान

CO-1.छात्रों को मीडिया लेखन के स्वरूप की जानकारी प्राप्त हुई। CO-2.छात्र मीडिया की प्रविधि और प्रकारों से अवगत हुए। CO-3.छात्रों को प्रिंट मीडिया और इलैट्रोनिक मीडिया के उद्भव व विकास का ज्ञान प्राप्त हुआ। CO-4.छात्रों को अनुवाद के क्षेत्र और स्वरूप की जानकारी प्राप्त हुई। CO-5.छात्रों को अनुवाद की प्रक्रिया और महत्त्व का ज्ञान प्राप्त हुआ। CO-6.छात्रों को अनुवाद की समस्याएं और उनके समाधान के संबंध की जानकारी प्राप्त हुई।

> Semester-IV Paper 1: (BHV) भाषा विज्ञान एवम हिंदी भाषा का अध्ययन

CO-1.छात्रों ने शब्द और अर्थ के संबंध, अर्थ विकास की दिशाओं तथा कारणों के विषय में जानकारी प्राप्त की।

CO-2.छात्रों को हिंदी भाषा के उद्भव, विकास तथा एेतिहासिक पृष्ठभूमि का परिचय प्राप्त हुआ।

CO-3.छात्र हिंदी की उपभाषाओं और बोलियों के वर्गीकरण और क्षेत्र से परिचित हुए। CO-4.छात्रों को मानक हिंदी के स्वरूप, शब्द भंडार, रूप संरचना और वाक्य संरचना के विषय में जानकारी प्राप्त हुई। CO-5.छात्रों ने प्राचीन भारतीय लिपियों के विषय में जानकारी प्राप्त की। CO-6.छात्रों ने देवनागरी लिपि के उद्भव, विकास, वैज्ञानिकता, त्र्टियों तथा हिंदी वर्तनी के मानकीकरण के विषय में जानकारी प्राप्त की। Paper-II : (PHK) प्राचीन एवम मध्यकालीन काव्य CO-1.छात्रों को प्राचीन तथा मध्यय्गीन काव्य कृतियों का परिचय प्राप्त हुआ। CO-2.छात्र प्राचीन तथा मध्य युग की काव्य परम्परा से परिचित हुए। CO-3.छात्र प्राचीन तथा मध्यय्ग की भाषा की परिचित हुए। CO-4.छात्रों को प्राचीन तथा मध्यय्गीन साहित्य की प्रवृत्तियों से अवगत करवाया गया। CO-5.छात्र तुलसीदास, बिहारी, घनानंद की काव्य कृतियों से विशेष रूप सें परिचित हुए। CO-6.छात्रों में काव्य के प्रति समीक्षात्मक दृष्टि तथा रूचि विकसित हुई। Paper III : (SAK) सूरदास और अन्य कृष्ण भक्त कवि CO-1.छात्रों को सूरदास के व्यक्तित्व और कृतित्व का परिचय प्राप्त हुआ। CO-2.छात्र सूरदास की काव्यगत शक्ति और सीमाओं से परिचित हुए। CO-3.छात्र सूरदास के काव्य की प्रासंगिकता से अवगत हुए। CO-4.छात्र अन्य कृष्ण भक्त कवियों के व्यक्तित्व और कृतित्व और मूल संवेदना से भी परिचित हुए। CO-5.छात्रों में कृष्ण भक्त कवियों के समीक्षण की यथोचित दृष्टि का विकास हुआ। CO-6.छात्रों में कृष्ण काव्य के प्रति रूचि में वृद्धि हुई। Paper-IV :(BAS) भारतीय साहित्य CO-1.छात्र भारतीय साहित्य की प्रमुख रचनाआें से परिचित हुए। CO-2.छात्रों को भारतीय साहित्य के स्वरूप तथा महत्त्व की जानकारी प्राप्त हुई। CO-3.छात्रों को भारतीय साहित्य की विभिन्न विधाओं का ज्ञान प्राप्त हुआ। CO-4.छात्र भारतीय साहित्य की व्यापकता और उपयोगिता से अवगत हुए। CO-5.छात्रों को गीतांजलि(काव्य), घासीराम कोतवाल(नाटक) और संस्कार(उपन्यास) का ज्ञान प्राप्त हुआ।

PG Department of English

Programme Outcomes: B.A (English)

Department Of English	After the successful completion of a three year degree programme in B.A (English) a student should be able to develop the following competencies:
Programme Specific Outcomes (English Compulsory)	PSO-1. Have basic vocabulary and the knowledge of basic grammar PSO-2. Know how to study language and literature PSO-3. Know the difference among prose, poetry, and drama as the forms of literature PSO-4. Develop the skills of analysis of literature
Programme Specific Outcomes(Elective English)	PSO-1.Know the various forms of literaturePSO-2. The knowledge of literary valuesPSO-3. Analysis/criticism of literaturePSO-4. After the completion of the course the students should be able to take up the special studies in language and literature.
Programme Specific Outcomes(Functional English)	PSO-1. The four skills of English language PSO-2. The knowledge of basics of communication PSO-3. The basics of TV, radio and print journalism PSO-4. The basic of office communication

Course Outcomes B.A.(English)

Semester-1	
Course	Outcomes
	After completion of these courses students should be able to ;
English Compulsory	Basic knowledge of English as Language.
	• Major knowledge of English as Literature.
	Basic knowledge of English Grammar.
	• Critical study of English Literary studies.
	• Relation between pleasure of literature and real life.
Elective English	Knowledge of literary terms
	• Understanding of Style and language of literary works
	Critical reading
	Basic grammar
Functional English	• Familiarity with the functioning of English – English sounds through listening in the Language Lab.
	Accuracy in oral production by the use of the

 pronunciation dictionary. An optimum level of intelligibility and fluency in speech Ability of communication in the spoken mode with accuracy and fluency for various functions.
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Semester-II

Outcomes
After completion of these courses students should be able to ;
Basic knowledge of English as Language.
• Major knowledge of English as Literature.
Basic knowledge of English Grammar.
• Critical study of English Literary studies.
• Relation between pleasure of literature and real life.
Knowledge of literary terms
• Understanding of Style and language of literary works
Critical reading
Basic grammar
• Enhanced ability of communication in the written mode with accuracy and fluency
• Trained use of specific formats of written discourse
• Knowledge of the fundaments of study skills
• Familiarity with the study skills to collect, classify & retrieve information from different sources and to record and store it

Semester-III

Course	Outcomes
	After completion of these courses students should be able to ;
English Compulsory	Basic knowledge of English as Language.
	 Major knowledge of English as Literature.
	Basic knowledge of English Grammar.
	• Critical study of English Literary studies.
	• Relation between pleasure of literature and real life.
Elective English	Knowledge of literary terms
	• Understanding of Style and language of literary works
	Critical reading
	Basic grammar
Functional English	Acquaintance with the different mechanisms of radio

broadcast.
• Script writing for different genres of Radio broadcast.
• Acquaintance them with the elements of voice
• Identification and overcoming speech problems

Semester-IV

Course	Outcomes
	After completion of these courses students should be able to ;
English Compulsory	Basic knowledge of English as Language.
	• Major knowledge of English as Literature.
	Basic knowledge of English Grammar.
	• Critical study of English Literary studies.
	• Relation between pleasure of literature and real life.
Elective English	Knowledge of literary terms
	• Understanding of Style and language of literary works
	Critical reading
	Basic grammar
Functional English	• Acquaintance with the lay-out, equipment and functioning of a
	T.V. station
	• Scriptwriting for different genres of T.V. Broadcast.
	• Sensitization to body movements, demeanor and gestures
	involved in T.V. presentation.
	Practice in previously covered features of broadcast
	presentation.
	• Familiarity with different genres of T.V. production

Semester-V	
Course	Outcomes
	After completion of these courses students should be able to:
English Compulsory	• Basic knowledge of English as Language.
	Major knowledge of English as Literature.
	Basic knowledge of English Grammar.
	Critical study of English Literary studies.
	• Relation between pleasure of literature and real life.
Elective English	Knowledge of literary terms
	• Understanding of Style and language of literary works
	Critical reading

	Basic grammar
Functional English	 Awareness of issues deserving reporting in print Familiarity with different aspects of print journalism, its formats, its avenues. Writing news stories from the stage of news gathering to editing to their final presentation. Familiarity with the lay-out, equipment and functioning of a newspaper/magazine production centre Acquisition of the art and skills of feature writing for freelancing
	• Awareness of the aspects of graphic arts in Print Journalism.

Semester-VI	
Course	Outcomes
	After completion of these courses students should be able to;
English Compulsory	• Basic knowledge of English as Language.
	• Major knowledge of English as Literature.
	Basic knowledge of English Grammar.
	• Critical study of English Literary studies.
	• Relation between pleasure of literature and real life.
Elective English	Knowledge of literary terms
	• Understanding of Style and language of literary works
	Critical reading
	Basic grammar
Functional English	Language proficiency in Business/work situations particularly
	in spoken interaction
	• Awareness of the special features of format and style of
	informal communication through various modes.
	• Techniques of written communication in business situations.
	• Expanded vocabulary and developed reading comprehension
	of material related to business.

Programme Outcomes: M.A. (English)

Department Of English	After successful completion of a three year degree programme in
	B.A(English) a student should be able to develop:
	• Literary sensibility
	Critical thinking

	 Understanding of a wide range of literary texts, literary history and literary cricism Proficiency in English language and ELT
	Semester-I
Course	Outcomes After completion of these courses students should be able to ;
Paper I- Literary Criticism-I	Understand the basic concepts in literary criticism starting from Aristotle
Paper II- British Poetry-I	 Introduce students to the poetry of selected British poets. Make the students aware of the literary period Display a working knowledge of poetry as a literary genre Identify and describe distinct literary characteristics of poetic form Critically analyse poetic work and write analytically about it
Paper-III- British Drama-I	 Introduce students to the plays of selected British dramatists. Make the students aware of the literary period Display a working knowledge of drama as a literary genre Identify and describe distinct literary characteristics of different dramatic forms Critically analyse dramatic works and write analytically about it
Paper-IV British Novel-I	 Introduce students to the novels of selected British writers. Make the students aware of the literary periods in which the novels were set. Display a working knowledge of novel as a literary genre Identify and describe distinct literary characteristics of novel Get sensitised with the critical tools used in the reading of novel Enhances critical thinking of the student and help them to become critical readers Critically analyse literary text and write analytically about it
	Somestor II

Semester-II	
Course	Outcomes
	After completion of these courses students should be able to ;
Paper I-	Understand the different approaches to literature and their application
Literary Criticism-II	to literary works
Paper II-	• Introduce students to the poetry of selected British poets
British Poetry-II	• Make the students aware of the literary period
	• Display a working knowledge of poetry as a literary genre
	Identify and describe distinct literary characteristics of poetic

	formCritically analyse poetic work and write analytically about it
Paper-III- British Drama-II	 Introduce students to the plays of selected British dramatists Make the students aware of the literary period Display a working knowledge of drama as a literary genre Identify and describe distinct literary characteristics of different dramatic forms Critically analyse dramatic works and write analytically about it
Paper-IV British Novel-II	 Introduce students to the novels of selected British writers. Make the students aware of the literary periods in which the novels were set. Display a working knowledge of novel as a literary genre Identify and describe distinct literary characteristics of novel Get sensitised with the critical tools used in the reading of novel Enhances critical thinking of the student and help them to become critical readers Critically analyse literary text and write analytically about it

PG Department of Sociology

Programme Outcomes: B.A. (Sociology)

Department of	After successful completion of three-year degree program in B.A.
Sociology	Sociology, a student should be able to:
Programme Outcomes	PO-1. Students gain knowledge in initial areas of sociology.
	PO-2.It develops sociological thinking.
	PO-3. Students will be able to know about society in a scientific way. In order to achieve advancement in different fields. The scientific knowledge of human society is required to solve societal problems using scientific thinking.
	Programme Specific Outcomes
Programme Specific Outcomes	 PSO-1. Provide knowledge of basic concepts of society such as social structure, institutes, communities, norms, values, social groups. Attitude, functions and Culture PSO-2. Enable to gain efficient knowledge of society before any social policies can be implemented. PSO-3. Aware the student about sociological theoretical frameworks that will show the empirical sophistication of sociology, the concepts must be scientifically evaluated. PSO-4. Aware students about the social problems and the develop
	PSO-5. It enable studenst to have a better understanding about the marginalized communities and governmental measurements for the welfare of these communities
	Course Outcomes B.A. Sociology
	Semester-I
Course	Outcomes
	After completion of these courses students should be able to;
FUNDAMENTALS OF SOCIOLOGY	CO-1. Students will be able to understand the fundamentals of Sociology and Sociology as a discipline CO-2. Students will be able to study the various terms, concepts and processes that will help in formulating a Sociological

Viewpoint
CO-3.Students will be able to understand the theoretical
framework of origin of society
CO-4. Students will be able to know about the process of
socialization
CO-5. Students will understand the formal and informal agencies of
social control in society

Semester-II	
SOCIOLOGY of STRATIFICATION	 CO-1. Students are exposed to the theoretical understanding of social stratification. CO-2. Learned about the social groups and differentiated from one another and often ranked in terms of certain criteria. CO-3. Pertinent to apprise the students of the concept of social mobility and various factors that contribute to it. CO-4. Prepare the students to understand the hierarchical structure of groups in various societies and help them understand the social mobility
	another and often ranked in terms of certain criteria. CO-3. Pertinent to apprise the students of the concept of social mobility and various factors that contribute to it. CO-4. Prepare the students to understand the hierarchical structure of groups in various societies and help them understand the social mobility

Semester-III	
Course	Outcomes After completion of these courses students should be able to;
SOCIAL STRUCTURE AND SOCIAL CHANGE	CO-1. Introduces students both to conceptual and some theoretical understanding of social structure and social change CO-2. Students are introduced to characteristics and elements of social structure and to understand the meaning, process and factors of social change.
	CO-3. Students are able to effectively to know about the process and connotations of development and globalizationCO-4. Students make effective use of the library, conduct research and make oral and written presentations of their findings.

Semester-IV	
SOCIAL INSTITUTIONS	CO-1. Student make their efficiency by defining the concept of social institutions in detail
	CO-2. Study of various institutions which are foundations of human society, will help students to look at society in an objective and analytical way.
	CO-3. Pertinent to apprise the students of the functions of different social institutes in society

Semester-V	
Course	Outcomes
	After completion of these courses students should be able to;
(Paper Code+	CO-1. Provide a comprehensive view of Indian Society
Paper Name)	CO-2. The students are exposed to the tribal, rural and urban
SOCIETY IN	societies and are presented with the social structure and social
INDIA	institutions to understand these segments of Indian Society
	CO-3. Understand effectively about the problems and government
	measurements for the uplift of underprivileged section of Indian
	Society

	Semester-VI	
DISORGANISAT ION AND	CO-1. Depiction the students about the social disorganization, its levels and current problems.	
EMERGING PROBLEMS	CO-2. It helps students to understand social realities and also equips them to utilize their knowledge in various theoretical and practical exercises	
	CO-3. Understanding of basic notions that how the different social problems create personal, familial and societal disorganization	
	CO-4. Enable students to create critical thinking about the solution of social problems	

Programme Outcomes: Bachelor of Arts (Hons.)

Department of	After successful completion of three year degree program in Bachelor of
Sociology	Arts a student should be able to;
Program me	PO-1 Students gain knowledge in initial areas of sociology and develops
Outcomes	sociological thinking.
	PO-2. Students will be able to know about society in a scientific way. In order to achieve advancement in different fields.
	PO-3. Equip the student with skills to analyze problems, formulate an hypothesis, evaluate and validate results, and draw reasonable conclusions thereof.
	PO-4.Prepare students for pursuing research or careers in Sociology .
	PO-5. Create awareness to become an educated citizen of society, committed to fulfilling his or her responsibilities within the scope of the rights and privileges granted.
	Programme Specific Outcomes
Programme Specific	PSO-1. Aware the student about sociological theoretical frameworks
Outcomes	that will show the empirical sophistication of sociology, the concepts
	must be scientifically evaluated
	PSO-2. Enable student to gain efficient knowledge of society before any social policies can be implemented
	PSO-3. Aware students about the social problems and the develop the
	thinking to find out the solutions of these problems.
	PSO-4. Provide knowledge of a wide range of Research methods and techniques and application
	PSO-5. Assist students in preparing (personal guidance, books) for competitive exams e.g. Civil Services, CDPO and BDPO.
	Course Outcomes B.A. Hons. sociology
	Semester-III
Course	Outcomes After completion of these courses, students should be able to;

Paper-SOCIAL	CO-1. Familiarize the students with the contributions of major thinkers in	
THOUGHT	classical Sociology and their continuing relevance to its contemporary	
(Compulsory)	concerns.	
	CO-2. The honors students will develop their understanding of the	
	development of Sociology as a discipline, with a focus upon classical	
	thinkers	
Semester-IV		
Paper-	CO-1. Understand the relationship between the fields of Sociology and Social	
SOCIAL	Psychology.	
PSYCHOLOGY	CO-2. Demonstrate basic concepts in Social Psychology, which have a bearing on the Social Psychological understanding of social interaction, social groups, public opinion and leadership qualities.CO-3. Students will prepare to study the social phenomena from social-psychological perspectives.	

Semester-V	
Course	Outcomes After completion of these courses, students should be able to;
Paper- Methods and Techniques of Social Research	CO-1. Understand the basic methods and techniques in social research. CO-2. The students will understand the basic elements of scientific method, various methods of data collection and social measurements in detail.

Semester-VI	
Paper- Social	CO-1. Understand the contemporary social problems in society,
Deviance	CO-2 the students will knowledgeable about the basic concept of deviance in contemporary society
	CO-3 Demonstrate its theoretical perspectives and control mechanisms.

Programme Outcomes: M.A. Sociology

Department of	After successful completion of two year degree program in
Sociology	chemistry a student should be able to;
Programme Outcomes	PO-1. Inculcate critical thinking in order to conduct objective scientific research without being influenced by preconceived notions.
	PO-2. Equip the student with skills to analyze problems, formulate a hypothesis, evaluate and validate results, and draw reasonable conclusions thereof.
	PO-3.Prepare students for pursuing research or careers in Sociology
	PO-4. Imbibe effective social and scientific communication in both oral and writing.
	PO-5. Continue to acquire relevant knowledge and skills appropriate to professional activities and demonstrate highest standards of ethical issues such as ethnic, gender and employment discrimination
	PO-6. Create awareness to become an educated citizen of society, committed to fulfilling his or her responsibilities within the scope of the rights and privileges granted
	Programme Specific Outcomes
Programme Specific Outcomes	PSO-1 • Understanding of the fundamental of Sociology and capability of developing ideas based on them.
	PSO-2• Inculcate the study of society and the scientific promotion of human welfare that has been neglected for long periods.
	PSO-3• Prepare and motivate students for research studies in sociology to diagnosis and analyze social problems and find suitable solutions.
	PSO-4 • Provide knowledge of a wide range of Research methods and techniques and application
	PSO-5• Provide advanced knowledge on topics of Peasant and rural society, unbanization, gender and development and social deviance.
	PSO-7 • Good understanding of the pretical perspective comprises of ideas and current theory used for specific research together with its definitions and references to appropriate academic literature
	PSO-9• Assist students in preparing (personal guidance, books) for competitive exams e.g. NET/SLET and Civil Servicesetc.

Course Outcomes M.A Sociology	
	Semester-I
Course	Outcomes After completion of these courses students should be able to;
Paper-I SOC R 411: HISTORY OF	CO-1. Students will be able to describe fundamental and historical evolution of sociological thought.
SOCIAL THOUGHT	CO-2. Effectively sensitize students to a detailed study of Classical Sociologists, i.e. Karl Marx, Max Weber and Emile Durkheim.
	CO-3. Develop the scientific thinking of students about the past and present social problems and developed the body of thoughts in systematic manners.
Paper-II SOC R 412: SOCIOLOGY OF FAMILY AND GENDER	CO-4. Demonstrate formulation of these thinkers to contemporary issues CO-1. Disclose to the students regarding the basic concepts of family and Gender CO-2. Demonstrate the Process of gender socialization within the framework of the family
	CO-3.Students will able to expose the specific problems and legal provisions made available to counter these problems relating to gender inequality in the Indian context.
Paper-III SOC R 413: SOCIOLOGY OF DEVELOPMENT	 CO-1. Students will be able to identify the relevance of the theme of development, especially in the less developed societies CO-2. Familiarize the students with the various ways that development has been conceptualized CO-3. Reveal the modernization theory in its economic, sociological, social-psychological and political forms with its critical evaluation. CO-4. The student will able to exhibit a review of the underdevelopment theory given by the Latin American political economists; and re-assess the various paths to development.
Paper-IV SOC R 414: SOCIAL STRATIFICATION : CONCEPTS & THEORIES	 CO-1 students are enlightened with the knowledge about elements of discrimination, exploitation, inequality and prevalence of hierarchies in everyday life CO-2. Effectively helpful for students give a background of important sociological concepts of stratification
	CO-3. Students will understand about the theoretical formulations of important thinkers like Max Weber, Karl Marx, Talcott Parsons, Davis and

Moore and Ralph Dahrendorf
CO-4. Students also gain knowledge o contemporary formulations like the emerging of middle class and changing dimensions of caste and class.

Semester-II	
Course	Outcomes After completion of these courses students should be able to;
Paper-I SOC R 425: POSITIVISTIC	CO-1. Knowledge and understanding :Learn the theories and writings of sociologists constituting the School of Positivistic Theories who actually treat Sociology as a natural sciences.
SOCIOLOGICAL THEORIES	CO-2. It also includes the more recent theories such as Structuration, Post- structuralism, etc.
	CO-3. Student will create intellectual understanding about the wisdom, rationalism, pragmatism and scientific methods
	CO-4. Student will communicate effectively in both written and oral form.
SOC R 426: METHODOLOGY OF SOCIAL	CO-1. Student will familiarize with the major Epistemological Schools in methodology of social sciences
RESEARCH	CO-2. It will also acquaint the students with the basic elements of social research and the major problems confronted by social scientists in arriving at objectivity and value neutrality.
	CO-3. Demonstrate knowledge and understanding of different statges of research.
	CO-4. Understand sampling and their various types in detail.
Paper –III SOC O 721: SOCIOLOGY OF	CO-1. Introduce and understand the students about the history of urban settlements and emergence of Urban Sociology as a discipline.
URBAN SETTLEMENTS	theoretical formulations relating to urban typology, urban ecology, Urbanism etc., with a special focus on the diverse experiences of western and non- western, particularly Indian, regions. CO-3. Students will provide the basic understanding to the students who wish to specialize in urban sociology.

Paper-IV	CO-1. The students will impart about the basic differences of rural sociology
SOC O 921:	vis-a-vis the urban sociology, and the crucial role played by the peasantry
PEASANTS AND	therein.
RURAL SOCIETY	
IN INDIA	CO-2. Effectively understrnd how the traditional social institutions, agricultural economy and the caste system together build up social structure which is entirely different from the ideal market-oriented capitalist institutions.
	CO-3. Enable to gain efficient knowledge the nature of changes taking place in the rural social structure after the presentation of money and market economy linked to the global capital.

Semeter-III		
Course	Outcomes After completion of these courses, students should be able to;	
Paper-I SOC R 438: INTERPRETIVE SOCIOLOGICAL THEORIES	 CO-1. The students will knowledgeable about the works and ideas of sociologists who have contributed to the perspective of Interpretive Sociology, as against the Positivistic sociology. CO-2. Understand the different approaches that diverges from positivistic sociological theories by recognizing that subjective experience, social interaction, thoughts and human behavior are equally important as are observable and objective facts. CO-3. It focuses on the work of Action theorists, Interactionist theorists and the scholars belonging to the Frankfurt School of Critical Theory. 	
SOC R 439: METHODS AND TECHNIQUES IN SOCIAL RESEARCH	 CO-1. The student will effectively understand the different methods and techniques of data collection. CO-2. The student will familiarize with the basic elements of scientific method, data collection, data processing and analysis and finally, report writing. CO-3. Students will trained to how get information from the field and to draw influences and conclusions out of field research. 	

Paper-III SOC O	CO-1. Student will enrich with knowledge about the development process in
632: SOCIAL	India focuses mainly on the issues of the India State and planned development.
DEVELOPMENT	
IN INDIA	CO-2. Demonstrate the role of the voluntary sector in India's development.
	CO-3. Demonstrate the assessment of the problems of, and measures taken to improve the conditions of the underprivileged groups such as the SCs, STs and BCs.CO-4. Students will consider the phenomenon of globalization and its consequences for the Indian society .
Paper-IV	
SOC O 933:	CO-1. Demonstrate the concept of deviance and its related terms.
SOCIOLOGY OF DEVIANCE: CONCEPTS AND THEORIES	CO-2. Demonstrate types of Deviance in contemporary society CO-3. Students will also be made aware of different explanations of deviance.

Semester-IV	
Course	Outcomes After completion of these courses students should be able to;
Paper-I	CO-1 Acquaint the students with some of the sociological perspectives
SOC R 440: PERSPECTIVES	which have been developed to study the Indian Society.
ON INDIAN SOCIETY	CO-2. Giving a chronological view on studies of Indian society.
	CO-3- The student will develop their understanding about the
	importantce of Indian Sociologists and their monographs.
	CO-4 It further hopes to help the students formulate a link between their theoretical background and examples from the field and to sensitize students about important Indian Social Institutions: Family, Village and Caste, etc.
Paper-II	CO-1. Students will be enabled to have a grasp of the changing marriage
SOC O 843:	and family patterns in India.
FAMILY	
DYNAMICS IN CONTEMPORARY INDIA	CO-2. Demonstrate the impact of technological and economic factors on family and how family has responded to these by undergoing changes in its Form, Structure and Functions, which in turn influence the values and

	role-relations within the family.
	CO-3. Students will be further acquainted with the family's failure in
	coping with the pressures of modern life.
Danan III SOC O	CO 1. Students will enable to establish a link between Development and
844: GENDER AND	Conduct Conduction of the endote to establish a link between Development and
DEVELOPMENT	Gender.
	CO-2. Effectively focus on different perspectives and schemes adopted
	for promoting Gender and Development.
	CO-3. Understand about the developmental policies which have been
	detrimental to women.
	CO-4. Look at the changes taking place in gender relations, particularly
	in the area of women and work; differentials and role conflict in the
	family due to changing equations.
	CO-5. Understand the overview of indicators of issues related to
	Discrimination, Exploitation and Oppression.
Paper-IV	CO-1. Understand India's social problems that have become more difficult,
SOC O 942:	intricate and hydra-headed, pervading the entire social, economic, cultural and
SOCIAL	demographic structure.
PROBLEMS	
	CO-2. Keeping this in view, learn the concept and various perspectives on
	social problems.
	CO-3 Understand detailed knowledge about specific social problems ranging
	from socio-cultural problems to socio-demographic problems.
	r

PG Department of History

ProgrammeOutcomes : B.A(History)

Department of	After successful completion of three year degree program in B.A History
History	a student should be able to:
ProgrammeOutcomes	PO-1.Students will demonstrate knowledge of the chronology, narrative, major events, personalities and turning points of the history of theIndia,Punjab and the World.
	PO-2.Students will offer multi-causal explanations of major historical developments based on a contextualized analysis of interrelated political, social, economic, cultural and intellectual processes.
	PO-3.Students will be able to demonstrate a breadth of training across historical time and space.
	PO-4.Students will be able to develop an in-depth understanding of a field, theme or region.
	PO-5.Students will be able to formulate historical arguments and communicate those arguments in clear and persuasive prose.
	Programme Specific Outcomes
Programme Specific	PSO-1. Understand background of our religion, customs
Outcomes	institutions, administration and so on.
	PSO-2. Understand the present existing social, political, religious
	and economic conditions of the people.
	PSO-3. Analyze relationship between the past and the present is
	lively presented in the history.
	PSO-4. Develop practical skills helpful in the study and understanding of historical events.
	I ney:
	(a) Draw instorical maps, charts, diagrams etc.
	(b) Prepare instorical models, tools etc.
	r SO-5. Develop interests in the study of history and activities
	(a) Collect ancient arts, old coins and other historical materials:
	(a) Conect ancient arts, ou coms and other instorical materials;
	(c) Visit places of historical interests, archaeological sites,

	museums and archives;		
	(d) Read historical documents, maps, charts etc.		
	(e) Play active roles in activities of the historical organizations and		
	associations; and		
	(f) Write articles on historical topics.		
	PSO-6. The study of history helps to impart moral education.		
	PSO-7. History installs the feeling of patriotism in the hearts of the		
	pupils.		
	Course Outcomes B.A (History)		
Semester-I			
Course	Outcomes		
	After completion of this coursestudents should be able to;		
	CO-1. Understand the major sources of Ancient Indian history.		
History of India	CO-2.Understand the salient features of Indus velley civilization.		
upto 1200 A.D.	CO-3.Understand the vedicculture, society, economy, polity and religion.		
•	CO-4.Evaluate the features of Buddhism and Jainism.		
	CO-5. Visualize the administration of Mauryas and the Dhamma of		
	Ashoka.		
	CO-6. Identify the achievements of Gupta Empire and their cultural and		
	scientific developments.		
	CO-7.Know about the Pallava, Chola and Pandya dynasties.		
	CO-8. Understand about the origion of Raiputs.		
	CO-9 Understand the important ancient historical places on map of		
	Indiagnd extent of Mauryan Empire		
	indiand extent of Madryan Empire.		

Semester-II	
	CO-1. Understand the foundation of the Delhi sultanate and the
History of India	Sultanate administration.
1200-1750 A.D.	CO-2.Recognise the Socio, economic and religious conditions under
	Vijayanagar Empire.
	CO-3. Identify the condition of India under the Mughal Empire.
	CO-4. Explain the Administration and decline of Mughals.
	CO-5. Analyse the rise of the Marathas and the contribution of Shivaji.
	CO-6.Understand theimportant historical places of medieval India on
	map of India.
Semester-III	

History of India,	CO-1.Discuss the advent of Europeans and their administration.
1750-1964 A.D.	

	CO-2.Evaluate the various causes of revolt of 1857 and its results.
	CO-3.Understand the British agrarian policies and deindustrialization.
	CO-4.Understand about the Socio-religious reform movements in 19th
	century.
	CO-5. State the role of moderates and extremists in the freedom movement.
	CO-6.Discuss the making of new constitution.
	CO-7.Understand the important historical places of Modern India on map of
	India
	Semester-IV
	Semester-1 V
History of Punjab	CO-1 . Understand the foundation of sikh religion.
1469-1849A.D.	
	CO-2. Evaluate the life and teachings of Guru Nanak Devji.
	CO-3. Understand the contribution all guru in spread of Sikhism.
	CO-4. Explain the region of Maharaja Ranjit Singh.
	CO-5. Under stand the role of Banda Bahadur in history of Puniab and
	Misil period history
	CO-6 Understand the important historical places of Puniab on the map of
	Puniah
	i unjuo.

Semester-V	
History of Punjab	CO-1 Explain the British administration after the annexation of Punjab.
1849-1966	CO-2 Understand the British agrarian policies.
	CO-3 Understand the introduction of modern education.
	CO-4 Learn about the socio- religious activities.
	CO-5 Explain the growth of political consciousness.
	CO-6 Understand the formation of Punjabi Suba and reorganization act 1966.
	CO-7 Understand about the historical places of Punjab.

Semester-VI	
Course	Outcomes
	After completion of this course students should be able to;

World History 18 th	CO-1Understand the rise of modern world.
-20 th century	CO-2 Evaluate the American revolution and French revolution.
	CO-3 Discuss the role of Nepoleon in the World political system.
	CO-4Understand the major events of unification Italy and Germany.
	CO-5 Discuss the rise of new type of imperialism in the world.
	CO-6 Understand the division of Europe into two parts and World War – I.
	CO-7 Evaluate the World War-II and modernization of China and Japan.
	CO-8 Identify World Historical places on map of World.
PG Department of Commerce

Programme Outcomes : B.Com

Department of	After successful completion of three year degree program in B.Com a
Commerce	student should be able to;
Programme	PO-1. After completing three years for Bachelors in Commerce (B.Com)
Outcomes	program, students would gain a thorough grounding in the
	fundamentals of Commerce and Finance.
	PO-2. The commerce and finance focused curriculum offers a number of
	specializations and practical exposures which would equip the student
	PO_{-3} The all-inclusive outlook of the course offer a number of value based
	and job oriented courses ensures that students are trained into un-to-
	date. In advanced accounting courses beyond the introductory level.
	affective development will also progress to the valuing and
	organization levels.
Programme	PSO-1. Students will be able to demonstrate progressive learning of various
Specific Outcomes	tax issues and tax forms related to individuals. Students will be able
	to
	demonstrate knowledge in setting up a computerized set of
	accounting
	DOOKS. PSO-2 Learners will gain thorough systematic and subject skills within
	various disciplines of commerce business accounting
	economics finance auditing and marketing
	PSO 2 Learners will be able to recognize features and relate of
	PSO-5. Learners will be able to recognize readers and roles of
	businessmen, entrepreneur, managers, consultant, which will
	help learners to possess knowledge and other soft skills and to
	react aptly when confronted with critical decision making.
	PSO-4. Learners will be able to prove proticiency with the ability to
	engage in competitive exams like CA, CS, ICWA and other
	courses.
	PSO-5. Learners will be able to do higher education and advance
	research in the field of commerce and finance.
	PSO-6. Learners will involve in various co-curricular activities to
	demonstrate relevancy of foundational and theoretical
	knowledge of their academic major and to gain practical
	exposure.
	PSO-7. Learners can also acquire practical skills to work as tax
	consultant, audit assistant and other financial supporting

	services.		
Course Outcomes B.Com			
	Semetser-I		
Course	Outcomes After completion of these courses students should be able to;		
BCM 101 A PUNJABI	 CO-1. The students know about the different streaks of human life by reading bibliography. CO-2. The students get the literary sense of comprehension of the subject. CO-3. The students know the skill of communication in Punjabi. CO-4. The students also know about the word formation and vocabulary. CO-5. The students know the bibliography as a form of literature. 		
BCM 102 ENGLISH AND BUSINESS COMMUNICATIO N	 CO-1. Focus on different aspects of communication CO-2. Developing language and writing skills CO-3. Writing of Tender, business letters, notice, memos, resume, and public notices. CO-4. Focus on interview techniques CO-5. Creating an interest in literature CO-6. Understanding and interpretation of short stories and one-act plays. 		
BCM 103 INTERDISCIPLIN ARY PSYCHOLOGY FOR MANAGERS	 CO-1. To provide broad understanding about the basic concepts and techniques of human behavior. CO-2. To provide knowledge about the inter-personal behavior, conflict management and stress management. CO-3.To impart knowledge of motivation, leadership, perception and personality. CO-4.To provides knowledge about individual behavior, factors affecting individual behavior. CO-5. To impart knowledge of attitude, values, beliefs. 		
BCM 104 BUSINESS ECONOMICS-I	 CO-1. To study the basic of concept of Micro Economics relevant for business decision making. CO- 2. It helps students to understand the application of Economics Principles in Business Management. CO-3. Students understand about how to apply the concept of opportunity cost. CO-4. To study shapes of different cost curves. CO-5. Students analyse operations of markets under varying competitive 		

	situations.
BCM 105 PRINCIPLES OF FINANCIAL	CO-1. To give conceptual knowledge about accounting concepts and
	Conventions.
	CO-2. Basic as well as practical knowledge about accounting treatment.
ACOUNTING**	CO-3. Under royalty ,branch, consignment and joint venture with GST
	Implication.
	CO-4. Introduction to IFRS and Accounting Standards.
	CO-5. To study about dissolution and insolvency of Paretnership firms.
	CO-1. Learn the difference between valid void and voidable contract.
BCM 106	CO-2. Learn how to pursue the consumer rights under consumer
COMMERCIAL	protection act 1982.
LAWS	CO-2. Aware about rights to information act, 2005.
	CO-3. To acquaint the students with general commercial laws.
	CO-4. To understand basic principles and Origins in the area of
	commercial law.
	CO-5. To Identify the fundamental legal principles behind contractual
	agreements.
BCM 107	CO-1.To helps the students in understanding the process of business
PRINCIPLES AND PRACTICES OF	management.
MANAGEMENT	CO-2.To gives basic knowledge about the management functions.
	CO-3.To imparts basic knowledge of management by objective, its mechanism.
	CO-4. To give knowledge about the communication, motivation, leadership.
	CO-5. To give knowledge about the organizational structures, authority and
	delegation.

	Semester-II
BCM 201 A PUNJABI	 CO-1. The students enrich their esthetic sense by reading bibliography. CO-2. The students know the nature of the subject in comprehension to the secondary level. CO-3. The students get more knowledge of Punjabi culture. CO-4. The students get strong on technical vocabulary.
BCM 202 ENGLISH AND BUSINESS COMMUNICATIO N	 CO-1. Creating an interest in literature CO-2. Understanding and interpretation of prose, short stories and plays. CO-3. Focus on different aspects of business communication in written form. CO-4. Basic understanding of Non-verbal communication. CO-5. Developing the skill of Effective listening. CO-6. Skilled use of modern forms of communication like e-mails, Fax Messages, Teleconferencing, Audio-Visual Aids and Power-Point Presentations.
BCM 203 INTERDISCIPLIN ARY E- COMMERCE	 CO-1. Logically observed and experienced the main activities of E-Commerce. CO-2. Learned and evaluated about the various components of E-Commerce. CO-3. Conceptually learned the concept of online shopping and models of Electronic market. CO-4. Thoroughly learned the concepts of instant messaging and Electronic Data Exchange. CO-5. Learned about the implementation of HTTP and Secure Electronic transaction.
BCM204 BUSINESS ECONOMICS-II	 CO-1. Students will be able to identify the determinants of various macroeconomic aggregates such as output, unemployment, inflation, productivity and the major challenges associated with the measurement of these aggregates. CO-2. Apply economic reasoning to understand the operation of an economy. CO-3. Understand the basics of national income accounting. CO-4. To provide knowledge about the basic concepts of distribution. CO-5. To enable students to learn about the modern tools of macroeconomic analysis.

BCM205 CORPORATE ACOUNTING	 CO-1. Preparation of final accounts of companies. CO-2.Practical knowledge of issue and redemption of debentures. CO-3. Practical knowledge of issue and redemption of shares. CO-4.To study how to maintain accounts of banking and insurance Companies. CO-5. Guidelines and procedure of issuing bonus and right shares.
BCM206 BUSINESS LAWS	 CO-1. Critically evaluate conditions and warranties of sale of goods act. CO-2. Able to use negotiable instrument in practical life. CO-3. Demonstrate understanding of the legal environment of business. CO-4.Communicate effectively using standard business and legal terminology. CO-5.To Aware students about the different business laws.
BCM 207 HUMAN RESOURCE MANAGEMENT	 CO-1.Learn the qualities of human resource manager in an organization. CO-2. Analysis the importance of different methods of training given to the employees in organization. CO-3. Memorize the difference between on the job training and of the job training. CO-4. Learn the participant of industrial relation and recruitment of good industrial relation programme.

Semester-III	
BCM 301 INTERDISCIPLIN ARY ISSUES IN INDIAN COMMERCE BCM 302 COST	 CO-1. To enable the students to acquire basic knowledge of different issues in Indian commerce. CO-2.To enhances the knowledge about the international sources of finance. CO-3. To give knowledge about stock exchanges, credit rating agencies. CO-4. To give knowledge about credit rating agencies and role of ICRA and CRISIL. CO-5.To imparts knowledge about the Investor protection, SFIO, growth of infrastructure in India, PPP. CO-1. This Course exposes students to a broad range of Cost Accounting concept and terminology.
ACCOUNTING	 CO-2. Student learn about how to identify, measure, accumulate direct and indirect cost, how to apply different costing techniques like Job Costing, Process Costing, CVP analysis etc. CO- 3. Students learn various inventory control techniques used by different concerns. CO-4. To give conceptual knowledge regarding allocation and apportionment of overheads.
BCM 303 COMPANY LAW	 CO-1. To update the knowledge of various provisions of the Companies Act of 2013. CO-2. To apprise the students of new concepts involving in company law regime. CO-3. To acquaint the students with the duties and responsibilities of key managerial personnel. CO-4.To imparts depth knowledge about the provisions and procedures to hold various kinds of meetings under company law. CO-6.Understand the use of the memorandum of association, article of association in a company and prospectus in a company.
BCM304 BUSINESS MATHEMATICS AND STATISTICS	 CO-1. Students will learn how to calculate and apply measure of location and measure of dispersion –grouped and ungrouped data cases. CO-2. Students will be able to compute and interpret the result of bivariate and multivariate regression and correlation analysis. CO-3. Students will be familiar with a variety of examples where mathematics or statistics helps accurately explain abstract or physical phenomena. CO-4. Students will recognize and appreciate the connection between theory and applications. CO-5. Students will be able to communicate key statistical concept to non statisticians.

BCM 305 BANKING AND INSURANCE	 CO-1. To acquaint the students with their Indian banking structure. CO-2. Detailed knowledge of various banking products. CO-3 To impart practical knowledge of operating ATM ,CDM ,Debit & Credit cards, PAYTM Banking ,GOOGLE PAY & other e-banking modes. CO-4. To give complete picture on Insurance Industry & IRDA
BCM 306 GOODS AND SERVICES TAX (GST)	 CO-1.To gain working knowledge on GST and application of the same in the organizations. CO-2. To enable the students to learn the concepts indirect tax and GST from the pre GST period to post GST period. CO-3. To understand the implications of GST on the taxable capacity consumers, dealers and of the society at large and its changes CO-4. Understand and make use of knowledge of GST rules in taking managerial decisions in various tax related matters. CO-5. To enable students to learn about the various GST authorities.

Semester-IV	
BCM 401 INTERDISCIPLIN ARY SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	 CO-1. Analyze and evaluate financial markets, how securities are traded, mutual funds, investment companies, and investor behavior. CO- 2. Construct optimal portfolios and illustrate the theory and empirical applications of asset pricing models. CO-3. Explain macro and industry analysis, equity valuation, financial statement analysis and technical analysis. CO-4. Analyze bond prices and yields and fixed-income portfolios. CO-5. Characterize the implications of the market efficiency evidence on active portfolio management.
BCM 402 ADVANCED ACCOUNTING	 CO-1.To give conceptual knowledge to students about advanced accounting problems with relevant Indian Accounting Standard. CO-2. To give student's basic as well as practical knowledge relating to the valuation of shares and valuation of good will. CO- 3. To provide deep knowledge to the students about the procedure of amalgamation and absorption. CO-4. To impart depth knowledge about the procedure of liquidation of companies.

BCM 403 AUDITING AND SECRETARIAL PRACTICE	 CO-1. Student will understand the audit process from the engagement planning stage through completion of the audit, as well as the rendering of an audit opinion via the various report options. CO-2. To help the students in understanding concepts and issues in Auditing and secretarial practices. CO-3.To identifies the steps needed to prepare for an audit. CO-4. To know how to report results of audit plan and Audit taking into account concepts of evidence, risk and evaluate internal control. CO-5.To knows about the position and role of a company Secretary.
BCM 404 COST MANAGEMENT	 CO-1. To acquaint the students with the various methods of cost determination. CO-2. To understand the tools and techniques of cost control. CO-3. Able to prepare various budgets like fixed and flexible budgets. CO-4. Define the terms with regard to variance analysis. CO-5. Define the process to compute total cost of a product belong to various production processes.
BCM405 MARKETING MANAGEMENT	 CO-1. Students can identify how consumer behaves differently. CO-2. Able to understand how a product passed from different stages. CO-3. Able to understand the difference between trademark and branding. CO-4. Able to describe the customer segmentation, target marketing and positioning. CO-5. Understand different methods of sale promotion.
BCM 406 QUANTITATIVE TECHNIQUES AND METHODS*	 CO-1. Students will acquaint with the various quantitative techniques and methods. CO-2. Students will understand the theory of probability and applications of linear programming. CO-3. Students will understand the concept of correlation, regression and their practical implications. CO-4. Students can apply such techniques and methods in practical life. CO-5. It will help students in making managerial decisions.

Semester-V	
BCM501 INCOME TAX LAW	 CO-1. To understand the provisions and procedure to compute total income under five heads of income i.e. salaries, house property, profits & gains from business & profession, capital gains and other sources. CO-2. To make aware about provisions of direct tax with regard to IT Act, 1961 and IT Rules, 1962. CO-3. To make aware about agriculture income, residential status and incidence/charge of tax. CO-4. Able to compute total income and define tax complicacies and structure. CO-5. Able to understand amendments made from time to time in Finance Act.
BCM502 MANAGEMENT ACCOUNTING*	 CO-1. To develop the knowledge of business finance and management decision. CO-2. To teach a sense of responsibility and a capacity for accounting for management. CO-3. To study the basic concepts of management accounting relevant in business. CO-4. To understand the usage of accounting in financial management.
BCM 503 INDIAN ECONOMY	 CO-1. TO give knowledge about Indian economy. CO-2. Detailed study of foreign trade, foreign trade policy. CO-3.Study of demographic features of Indian economy. CO-4. Study of economic reforms and its impact in Indian economy.
BCM 504 PRODUCTION AND OPERATION MANAGEMENT	 CO-1. To understand the basics of operations management terminology and technological trends. CO-2. To develop certain quantitative skills, competencies in the input transformation and output process. CO-3. To have knowledge about types of processes used in manufacturing. CO-4. Make familiar regarding demand forecasting, plant layout, location and supply chain management related decisions. CO-5. To have adequate knowledge about work study and work measurement.

BCM 505	CO-1. To give knowledge about issues involved in setting up a private
ENTREPRENEURS	Enterprise and to develop required entrepreneurial skills in economic
HIP AND SMALL BUSINESS	development. CO-2. To motivate students to opt for entrepreneurship and self-employment as alternate career options. CO-3.To give knowledge about the small scale industries and role of SSI in India, problems faced by SSI, tax exemptions for SSI, small business and modern technology. CO-4. To impart knowledge of business planning, motivation, leadership, decision-making, innovation, risk taking. CO-5.To gives knowledge about the EDP's, relevance of EDP's and role of
DCM 506	government in organizing EDP's.
BCM 500	CO-1. To familiarize the students with the traditional and modern
FINANCIAL MADVETS AND	financial markets and services.
MARKEIS AND	CO-2. It helps the learners to understand the structure of Indian Financial
SERVICES	System.
	CO- 3. It provides knowledge to the students about the types of financial
	markets their nature and working.
	CO-4. It helps the students to know about the concept of mutual funds, its
	management and its types.

Semester-VI	
BCM 601 DIRECT TAX LAWS*	 CO-1. To understand the provision and procedure for clubbing & aggregation of incomes and set-off & carry forward of losses. CO-2. To understand the various deductions to be made from gross total income U/s 80-C to 80-U in computing total income. CO-3. To understand the provisions and procedure to compute total income and tax payable by an individual. HUF, Firms and AOP/BOI. CO-4. To understand various tax rebates & relief and procedure to file IT return. CO-4. To aware the students about the tax authorities and their powers. CO-5. Able to file IT return on individual basis.
BCM602 FINANCIAL MANAGEMENT	 CO-1. To learn capital budgeting and different techniques. CO-2. To study effective financial planning. CO-3. Students will able to understand the concept of working capital management. CO-4. Perform analytical reviews of financial results, proposals, and plans. CO-5. Identify funding sources, instruments, and markets.

BCM 603 ISSUES IN FINANCIAL REPORTING	 CO-1. The main purpose of this subject is to provide to knowledge to the students about development in financial reporting. CO-2. Students learn about the various reporting issues at the national and international level. CO-3. To provide conceptual knowledge of framework of FASB and IASB. CO-4. To study about the recent trends in FR in the Indian Contest.
BCM 604 SOCIAL AND BUSINESS ETHICS	 CO-1. Develop strategies for identifying and dealing with typical ethical issues, both personal and organizational. CO-2. The student will be able to analyze various ethical codes in corporate governance. CO-3. The student will be able to Analyze corporate social Responsibility. CO-4. Students will be able to understand the environmental issues regarding business.
BCM 605 OPERATIONAL RESEARCH*	 CO-1. Students will understand the concept and techniques of operations research. CO-2. Identify and develop operational research models from the verbal description of the real system. CO-3. Understand the mathematical tools that are needed to solve optimization problems. CO-4. Use mathematical software to solve the proposed models. CO-5. Develop a report that describes the model and the solving technique, analyze the results and propose recommendations in language understandable to the decision-making processes in Management Engineering.
BCM606 SECTORAL ASPECTS OF INDIAN ECONOMY	 CO-1. To study about ways to enhance agricultural productivity. CO-2. To share benefits of organic and corporate farming. CO-3. Study of latest industrial policy with five year plans. CO-4. To determine problems of large scale and small scale industries. CO-5. To throw light on problems of Indian economy with special reference to inflation, unemployment

Programme Outcomes: M.Com.

Department of	After successful completion of two year degree program in
Commerce	commerce a student should be able to;
Programme Outcomes	PO-1. To acquaint a student with conventional as well as contemporary areas in the discipline of Commerce.
	PO-2. To enable a student well versed in national as well as international trends.
	PO-3. To enable the students for conducting business, accounting and auditing practices, role of regulatory bodies in corporate and financial sectors nature of various financial instruments.
	PO-4. To provide in-depth understanding of all core areas specifically Advanced Accounting, International Accounting, Management, Security Market Operations and Business Environment, Research Methodology and Tax planning.
	Programme Specific Outcomes
Programme Specific Outcomes	PSO-1. To inculcate the knowledge of business and the techniques of managing the business with special focus on marketing, Insurance and banking theory law and practices.
	PSO-2. To enhance the horizon of knowledge in various field of commerce through accounting and finance, marketing and sales promotion, auditing and entrepreneurial development.
	PSO-3. To create awareness in application oriented research through research for business decisions.
	Course Outcomes M. Com
	Semester-I
Course	Outcomes After completion of these courses students should be able to;
M.C.101 MANAGERIAL ECONOMICS	 CO-1. To integrate the basic concept of Economics with the tools of mathematics and statistics in order to analyze and make optimal business decisions. CO-2. To understand the role of managers informs.
	CO-3. To analyze the demand and supply condition and access the position of a company.CO-4. To design competitive strategies including pricing, marketing

	environment according to the nature of product and structure of markets. CO-5. Analyze real world business problems with a systematical theoretical framework.
M.C.102 QUANTITATIVE METHODS FOR BUSINESS	 CO-1. To understand statistical tools for quantitative analysis CO-2. To understand the statistical tools for research and business decision making. CO-3. To develop an understanding of the theory of probability, rules of probability and probability distributions. CO-4. To comprehend the decision making process under uncertainty using statistical tools. CO-5. To become aware of the concepts in sampling, sampling distributions and estimation. CO-6. To understand the meaning and process of hypothesis testing including one-sample and two-sample tests.
M.C.103 MODERN ACCOUNTING THEORY & REPORTING PRACTICES	 CO-1. To give knowledge about the IASB and its conceptual framework. CO-2. To give basic and conceptual knowledge about international financial reporting standards and practices. CO-3.To imparts knowledge of Harmonization process, and its benefits. CO-4. To impart basic and conceptual knowledge of preparation of financial statements for single entities as well as combined entities. CO-5. To give basic and conceptual knowledge about presentation and disclosure of financial statements.
M.C.104 ORGANISATION THEORY AND BEHAVIOUR	 CO-1. To develop understanding among students about the structure and behavior of organizations. CO-2. To make them capable of realizing the competitiveness of firms. CO-3. To impart knowledge about organization structures, organizational culture, organization development. CO-4.To impart knowledge of stress management, conflict management. CO-5.To give knowledge about motivation, leadership, group decision-making and communication.
M.C.105 MARKETING MANAGEMENT	CO-1. To equip the students to take effective distribution decisions for products and services. CO-2. To develop the skills among students to enable them to design the Promotion-Mix strategies advertising campaigns. CO-3. To make the students aware about the current trends in marketing to enable them to take proactive measures while taking marketing decisions. CO-4. To familiarize the students with the fundamentals of marketing to enable them to take better marketing decisions.

M.C.106	CO-1. Enable students to identify how Information Systems support
MANAGEMENT	business strategy business processes and practical applications in an
INFORMATION	organisation
SYSTEM	CO-2. Enable students to interrelate how various support systems can be
	used for business decisions and to sustain competitive advantage
	CO-3. Describe how the Internet and world wide web provide a global
	platform for business business mobility and Communications collaboration
	and cloud computing.
	CO-4. Express the proven value of and relationship between business
	data data management and business intelligence
	CO-5 Analyse systems development and project management
	methodologies
	CO 6 Halp students to learn MIS shallonges future Trends and relevant
	CO-6. Help students to learn with chanenges future frends and relevant
	CO-7. Express ethical awareness and moral reasoning applied to MIS

Semester-II	
Course	Outcomes After completion of these courses students should be able to;
M.C.201 BUSINESS ENVIRONMENT	CO-1. To study about features of prevailing business environment. CO-2. To study about MNC'S and their impact in the country. CO-3. Detailed study of how stock market, capital market, money market effect business environment. CO-4.Study of latest industrial policy and critical evaluation of the same.
M.C.202 RESEARCH METHODOLOGY IN COMMERCE	 CO-1. To impart knowledge about the various stages of research process and their application in commerce and management education. CO-2. The aim of courses to be provides the students with an introduction to research methods and report writing. CO-3. To develop understanding on various kinds of research, objectives of doing research, research design and sampling. CO-4. Have basic awareness of data analysis and hypothesis testing procedure.
M.C.203 FINANCIAL MANAGEMENT AND POLICY	 CO-1. Skill to manage financial resources of a company. CO-2. Knowledge about the various sources of finance available to businessmen these days. CO-3. Ability to select an investment proposal by analyzing the compounded and discounted value of money invested.

	CO-4. To acquaint the students regarding the various types of decisions
	taken by financial managers in current competitive environment.
	CO-5. To enable students to select an investment project out of
	alternative investment proposal.
M.C.204	CO-1. To impart knowledge regarding production and management
PRODUCTION	techniques.
AND MATERIALS	CO-2. To understand the production process and tools.
MANAGEMENT	CO-3.To acquaints the students with the knowledge of marketing
	function and techniques.
	CO-4. To give knowledge about functions and quality control
	techniques.
	CO-5. To give details about strategic importance, layout of production
	and materials management.
	CO-1. Students will understand the concept and techniques of
M.C.205	operations research.
OPERATIONS	CO-2. Identify and develop operational research models from the
RESEARCH	verbal description of the real system.
	CO-3. Understand the mathematical tools that are needed to solve
	optimization problems.
	CO-4. Use mathematical software to solve the proposed models.
	CO-5. Develop a report that describes the model and the solving
	technique, analyze the results and propose recommendations in language
	understandable to the decision-making processes in Management
	Engineering
	CO-1 Familiarization with the strategic management process
M.C.206	CO-2 Understanding about the techniques to scan an environment
BUSINESS	and the role of environment scanning in hurdle less strategic
POLICY &	management of an organization
STRATEGIC	CO_{-3} Understanding about the equal importance of strategy
MANAGEMENT	formulation and strategy implementation
	CO-4 Clarity about the strategies followed by different companies in
	the corporate world
	CO-5. To make students understand and formulate different strategies at
	business level and corporate level
	business iever and corporate iever.

Semester-III	
Course	Outcomes After completion of these courses students should be able to;

M.C.301 Business Performance Measurement	CO-1. To study techniques of measuring corporate performance. CO-2. To study techniques of enhancing corporate performance. CO-3. Comparison of traditional and modern techniques of Performance Measurement. CO-4.Steps of setting SMART goals and achieving the same.
M.C.302 TAX PLANNING AND MANAGEME NT	 CO-1. To enable students to understand various aspects of corporate planning with a view to derive maximum possible tax benefits. CO-2. To familiarize the students with the latest updates of tax law. CO-3.To enable students to understand tax implications for different forms of business. CO-4. To understand the implications of GST on the taxable capacity consumers, dealers and of the society at large and its changes. CO-5. To make them to be a tax consultant in preparing the tax planning, tax management, payment of tax and filing of tax returns.
MC. 305 Human Resource Development	 CO-1. : Build an understanding, perspective and appreciation for HRD as discipline, process and activity. CO-2: Critically evaluate the exiting theoretical edifice of HRD in order to draw a sketch of HRD relevant in present times. CO-3: Develop skills to assess need for HRD intervention, design learning and development programs and evaluation of HRD programs. CO-4: Develop a perspective to understand organizational dynamics and learning challenges possessed by organizational and social complexities. CO-5: Integrate human with technology and other emerging realities in order to understand how theory unfolds itself in present world of practice.
MC. 306 Industrial Relations	 CO-1. To give knowledge about industrial relations. CO-2. To make them understand the importance of industrial relations for an organization. CO-3. To give knowledge about trade unions, role of trade unions, trade unions in different countries. CO-4.To give knowledge about dispute resolution and to impart knowledge of labor welfare. CO-5.To impart knowledge of trade union act 1926
MC. 309 Strategic Cost Management	 CO-1. To give knowledge about various aspects of cost management from strategic perspective. CO-2.To give basic knowledge about ROI, EVA,RI. CO-3.To impart knowledge of budgeting, ZBB, responsibility centre's and financial control. CO-4. To give basic knowledge of activity based costing mad activity based management. CO-5. To impart knowledge of balance scorecard, performance evaluation and control.

MC. 310 International Accounting	CO-1. To give basic and conceptual knowledge about international accounting Issues. CO-2. To makes students capable to tackling issues in prevailing regulatory environment CO-3.To impart knowledge of foreign currency translation, foreign exchange risk management, performance evaluation of foreign operations. CO-4. To give basic and conceptual knowledge about IASB and international and regional efforts in standard setting, harmonization. CO-5. To impart basic knowledge of transfer pricing, strategic planning, management control system.
MC. 315- WORKSHOP ON FINANCIAL MARKETS AND INSTRUMENTS	 CO-1. To inculcate adequate presentation skills in students. CO-2. Detailed knowledge about financial markets. CO-3. To impart depth knowledge of derivatives and factoring. CO-4. Detailed study on capital market, money market and stock market. CO-5.To give complete picture on mutual funds.

Semester-IV	
Course	Outcomes After completion of these courses students should be able to;
M.C.401 PROJECT PLANNING AND CONTROL	 CO-1. Manage the scope, cost, timing, and quality of the project, at all times focused on project success as defined by project stakeholders. CO-2. Align the project to the organization's strategic plans and business justification throughout its lifecycle. CO-3. Identify project goals, constraints, deliverables, performance criteria, control needs, and resource requirements in consultation with stakeholders. CO-4. Implement project management knowledge, processes, lifecycle and the embodied concepts, tools and techniques in order to achieve project success.
M.C.402 KNOWLEDGE MANAGEME NT	 CO-1. To aware the students about the details of knowledge management. CO-2. To create knowledge about the concept in changing scenario. CO-3.To discusses its significance in framing the business strategy. CO-4. To discuss knowledge management as a tool of excellence. CO-5. To give details of knowledge management system.
M.C.403 BUSINESS ETHICS AND CORPORATE GOVERNANC E	 CO-1. To create a framework for effective corporate governance by understanding the role and responsibility of different stakeholders in large corporate and how their interplay results in alternate governance structures in different countries. CO-2: To appreciate the accountability of corporations towards its stakeholders and society and to create an integrated value framework for

	sustainability. CO-3: To serve as an effective board member, build professional boards and as senior managers contribute to strengthening board performance. CO-4: To know about rights and responsibilities of shareholders. CO-5: To build and monitor systems that has strong internal control to prevent corporate frauds. CO-6: To appropriately address ethical issues such as conflicts of interest and insider trading.
MC. 407 Organizational Change and Development	CO-1. To impart basic knowledge about change management.CO-2. To learn theories of processed change.CO-3. Detailed comparison of coaching and mentoring.CO-4. To study about OD interventions in detail.
MC. 408 Training and Development	 CO-1. To familiarize the students with basic concepts and principles of training and development of human resource. CO-2. To train them to understand the learning environment of a firm. CO-3.The knowledge so obtained will make them capable of providing training to human resource of a business firm. CO-4. To create awareness about assessment of training needs and curriculum development. CO-5. To discuss the emerging pattern of training and development in India.
MC. 409 Compensation Management	 CO-1. To promote understanding in issues related to compensation in corporate sector. CO-2. To provide knowledge about skills in designing, analyzing and restructuring compensation management system, policies and strategies. CO-3. How compensation be used as a motivational tool? CO-4. To provide in depth knowledge regarding how to frame compensation policy for corporate directors, senior managers, R & D Staff, Sales Executive etc. CO-5. Students learn about the role of trade unions in compensation management.

Department of Business Administraion

Programme Outcomes BBA

Department of Business	After successful completion of three year degree program in B.B.A
Administration	a student should be able to;
Programme Outcomes	PO-1. Apply knowledge of management theories and practices
	to solve business problems.
	PO-2. Ability to develop ethical and value-based leadership
	ability
	PO-3. Ability to understand, analyze and communicate
	regional, national, global economic, legal, and ethical aspects
	of business.
	PO-4. Ability to lead themselves and others in the
	achievement of organizational goals, contributing effectively
	to a team environment
Р	rogramme Specific Outcomes
Programme Specific	PSO-1 Develop ethical thinking.
Outcomes	PSO-2 Develop functional and general management skills.
	PSO-3 Build and Demonstrate leadership, teamwork, and social
	skills.
	PSO-4Communicate effectively in different contexts.
	PSO-5 Determine the functional areas of management such as
	Production, purchasing, marketing, sales, advertising, finance,
	human resource system.
	Course Outcomes BBA

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Semester-I	
Course	Outcomes
	After completion of these courses students should be able to;
Financial	CO-1. Upon completion of this course, students will be able to
Accounting	understand different accounting concepts and
	conventions.
	CO-2. Prepare financial statements in accordance with
	generally accepted Accounting Principles (GAAP)
	CO-3 Be familiar with the rules governing accounting
	transactions.

	CO-4. Analyze financial statements with the help of various tools and techniques of accountancy.
Business Statistics	 CO-1 Students will learn how to calculate and apply measure of location and measure of dispersion –grouped and ungrouped data cases. CO-2 Students will be able to compute and interpret the result of bivariateand multivariate regression and correlation analysis. CO-3.Students will be familiar with a variety of examples where mathematics or statistics helps accurately explain abstract or physical phenomena. CO-4. Students will recognize and appreciate the connection between theory and applications.
	CO-5 Students will be able to communicate key statistical concept to non statisticians.
Punjabi	 CO-1. By reading Modern Poetry student is able to understand issues of modernism. CO-2. The students get the literary sense of comprehension of the subject. CO-3. The students know the skills of communication in Punjabi. CO-4. The students know the story as a form of literature.
	CO-5. The students get strong on technical vocabulary.
Essentials of Business Economics-1	 CO-1. Upon completion of this course, students will be able to: Understand background of managerial economics. CO-2. Develop an understanding of role and function of managers. CO-3. Provide a detailed view of various roles played by cost and revenue in business. CO-4 To understand the application of economic principles in business management.
Fundamentals of IT	 CO-1. To help the student understand concept of information technology which is dire need of today's world. CO-2. Make them capable to do their own work on computer by giving them practical exposure of MS-Word and MS-Excel CO-3. To aware them about the concept of internet and capable them to work on Internet to explore their capabilities. CO-4. Prepare them to present their seminars by using ICT technologies with knowledge of Power point presentation.

Management of	CO-1. To help the students understand the process of Management
concepts and	and its evolution as a body of knowledge
practices	CO-2. To understand the concept of planning for a Business
	Organization and develop the ability to make and execute
	Business Plans
	CO-3. The student understand the process of designing an Organizatio
	structure suited to its business needs and recruit manpower to fit the
	Structure
	CO-4. The student will be able to understand the application of
	various Motivation Techniques suitable for various Business
	Environments
	CO-5. Apply various techniques of controlling to ensure the
	execution of the Business Plan

Semester-II	
Course	Outcomes After completion of these courses students should be able to;
Essentials of	CO-1. This course helps in providing the knowledge of basic
Business	concepts of Macro Economics, National Income.
Economics-II	CO-2. Understand the term inflation and measures to control inflation.
Managerial and	CO-1. Upon completion of this course, students will be able to
soft skills	Conduct effective business correspondence and prepare
Management	business reports which produce results.
	CO-2. Become self-confident individuals by mastering inter-
	personal skills, team management skills and leadership skills
	CO-3. Develop broad career plans, evaluate the employment
	market, identify the organizations to get good placement,
	match the job requirements and skill sets.
Punjabi	CO-1. The students know the nature of the subject in comprehension
	to the secondary level
	CO-2. The student get more knowledge of Punjabi story.
	CO-3. The student get strong on Technical Vocabulary.
	CO-4. The students enrich their esthetic sense by reading Modern
	Poetry.

Financial Management	 CO-1. To enable the student to Apply the fundamental concepts and tools of finance. CO-2: To enable the student to appraise the risk profile of firms; specifically, estimate the costs of capital, including debt and equity capital, using financial data. CO-3: To enable the student to Evaluate the sources of financing for inventory and financial management.
Psychology for Managers	 CO-1. Describe the evolution of psychology and the major pioneers in the field CO-2. Differentiate between sensation and perception CO-3. Describe Intelligence Theories and Intelligence Testing CO-4. Explain learning and the process of classical conditioning CO-5. Describe and differentiate between personality theories
Business laws	 CO-1:To familiarize the students with the meaning, scope and the sources of Business Law. CO2 : To develop in the student an understanding of the various Acts related to sales and Goods, etc. CO3: To develop in the student habits of analytical thinking and logical reasoning about the Negotiable instruments, Endorsements and Banks.

Semester-III	
Direct Tax Laws	CO-1. This course imparts basic knowledge of direct tax laws in
	India.
	CO-2. Students of the course will be able to explain different types
	of incomes and their taxability and expenses and their
	deductibility.
	CO-3. Students who complete this course will be able to learn
	various direct taxes and their implication in practical
	situations.
	CO-4. Students of the course will able to state the use of various
	deductions to reduce the taxable income

Onerations	CO-1 Identify and develop operational research models from the
Bosoarch	verbal description of the real system
Kesearen	CO_2 Understand the mathematical tools that are needed to solve
	optimization problems
	CO-3 Use mathematical software to solve the proposed models
	co-s.ose mathematical software to solve the proposed models.
	CO-4. Develop a report that describes the model and the solving
	technique, analyse the results and propose recommendations in
	language understandable to the decision-making processes in
	Management Engineering.
English and	CO-1. Focus on different aspects of communication in general and
Business	business communication in particular.
Communication	CO-2. Developing language and writing skills.
skills	CO-3. Writing of Tender, business letters, notice, memos, resume and
	public notice.
	CO-4.Focus on interview techniques
	CO-5. Creating an interest in literature
Economics of	CO-1. Students will understand the role of money and banks in the
Money and	broader economy.
Banking	CO-2. Outline the functions of money and its unique position in the
	economy.
	CO-3. Compare different financial instruments and the institutions
	that issue them.
	CO-4. Analyze the factors that influence interest rates
	CO-5. Examine the impact of interest rates have on the economy.
Regulatory	CO-1. Understand the concept of a company and various types of
Framework for	companies
Companies	CO-2. Understand the process of Incorporation of a company &
	starting a new Business
	CO-3. To formulate the MOA and AOA for a Company
	CO-4. How to Issue share capital for a company
	CO-5. Understanding the role of Board of Directors of a company

Marketing	CO-1. Familiarize the students with marketing concepts and
Management	application in real business situations
	CO-2. Enable students to develop and implement successful
	marketing planning for a real business company
	CO-3. Analyze the customers, competitors and other business
	environments for marketing planning
	CO-4. Apply both managerial judgment and analytical approaches
	to current marketing problems and issues and suggest solutions
	CO-5. Work productively as part of a team, and in particular,
	communicate and present qualitative and quantitative
	information effectively in written and electronic formats in a
	collaborative environment

Semester-IV	
Research	CO-1. Upon completion of this course, students will be able to:
Methodology	Understand and use the concept of research methodology.
	CO-2. parametric and non-parametric hypothesis tests
	CO-3. Judge the reliability and validity of experiments and perform
	exploratory data analysis
	CO-4. Collect and analyse data to support business decision –making
	processes.
	CO-5. Critically explain research terminology, concepts and principles.
GST	CO-1. Understanding the tax structure in India
	CO-2. Knowledge of Registration Procedure under GST
	CO-3. How to do Levy and Collection of CGST/ SGST
	CO-4. How to do Levy and Collection of IGST
	CO-5. Understanding Refund system under GST
English	CO-1. Focus on different aspects of communication in general and
	business communication in particular.
	CO-2. Developing language and writing skills.
	CO-3. Writing of Tender, business letters, notice, memos, resume and
	public notice.
	CO-4. Focus on interview techniques
	CO-5. Creating an interest in literature

Data base	CO-1. It aims at acquainting students better with the basics of DBMS,
management	different Architectural Models for DBMS, Normalization of data,
system	Concurrency control problems and its management, Protection, Security
·	and recovery aspects of databases along with practical knowledges of
	databases using SQL and PL/SQL.
	CO-2 The key goal is to prepare students for a professional career in
	the field of data administration and database design.
	CO-3. To get acquaint students with good knowledge of DBMS. During the course, students will learn about database design and database handling activities.
	CO-4. Learn how to identify an organization's information
	processing requirements.
Human resource	CO-1. To Explain the importance of human resources and their
Management	effective management in organizations.
	CO-2. Analyze the role of recruitment and selection in relation to the organization's business and HRM objectives .
	CO-3 .Demonstrate appropriate implementation, monitoring and assessment procedures of training & development
	CO-4. To give an understanding of compensation to employees and the ways and means of delivering these monetary and non monetary benefits.
Project	CO-1 To determine the effective strategies of project management that
Management	can lead to better decision making.
Management	6
	CO-2To understand the concept of Plant layout and its implications.
	CO-3To determine the sources of finance available for the companies.
	CO-4 To understand the human aspects associated with Project
	Management.

Semester-V	
Course	Outcomes After completion of these courses students should be able to;

International	CO 1. To address the amercing issues related to the International Duciness
International	CO-1. To address the emerging issues related to the international Business.
Business	CO-2. To address the economic, social, legal, political and technological issues related to business
	CO-3. To familiarize students with impact of international marketing
	on the nost and guest countries $CO(4)$. To understand the roles functions of Intermediated Financial
	Institutions
Enterpreneurshin	CO-1 To determine the factors that affects the choice of technology by
and Small	entrepreneurs.
Business Management	CO-2To develop a business plan that should serve the needs of all the sectors of the society.
	CO-3To understand Marketing, Human Resource, Operations in an enterprise.
	CO-4To familiarize the students with the ethical qualities required in entrepreneurs.
Sales and	CO-1. The purpose of this paper is to acquaint the student with the
distribution	concepts which are helpful in developing a sound sales and
Management	distribution policy.
	CO-2. Organizing and managing sales force and marketing channels CO-3. To enable the students to do Sales forecasting and prepare the sales Budget
	CO-4. To design appropriate channels of Distribution according to
	the product needs CO-5. To gain knowledge about the concept of warehousing and its automation
Business	CO-1. Establishing the framework to study factors affecting business
Environment	CO-2. Making Interaction Matrix between various Environmental
	factors
	CO-3. Analysing the Impact of Economic Environment on Business
	CO-4. Analysing the Impact of Political and Legal Environment on
	Business
	CO-5. Analysing the Impact of Social and Cultural Environment on
	Business

Insurance and	CO-1. Identify and categories the various risks faced by an
risk Management	organization & individuals.
	CO-2. Understand the various risk control measures available & the
	evaluation techniques.
	CO-3. Relate to the role of Insurance in economic development of society and social security.
	CO-4. Learn about various terminology used in insurance. Apply the Customer importance & behavior in various situations.
	CO-5 Describe the Principles of Insurance.
	CO-6Describe the difference between Life & Non –Life insurance
	Products
Consumer	CO-1 The course aims at enabling students to understand the concept
Behaviour	of consumer behavior, various internal and external factors that
	influence consumer behavior.
	CO-2 Identify and explain factors which influence consumer
	behavior
	CO-3. To understand consumer behaviour, preferences, and
	consumer satisfaction.

Semester-VI	
Social and ethical issues in Business	CO-1. This course familiarizes the students with the importance of ethics in business CO-2. The student understand issues related to corporate social responsibility and corporate governance
Production and Operation Management	 CO-1. The Course imparts knowledge regarding production and operation management tools, techniques and processes CO-2. The student learns about production techniques, Quality Management , Statistical quality control. CO-3 This Course familiarize students how to take managerial decisions with respect to production function
Business Policy and strategy	 CO-1. The course structure gives an insight into the strategic planning process done by business organizations. CO-2. The student is required learns the basics of that how a strategy is formed and finally implemented by organizations. CO-3. The student will know how to develop the Vision and Mission statements of an organization and then analyze them CO-4. To develop the ability to scan the Environment using various matrix tools such as SWOT , QUEST etc

	CO-5. To carry out the internal appraisal of an organization.
Advertising and	CO-1. The course aims at providing understanding of basic
Brand	principles of advertising management, ethics in advertising
Management	CO-2. This course will also exposes student to issues in brand
	management.
	CO-3. Understanding the concept of Brand equity, Brand personality,
	brand positioning etc.
Marketing of	CO-1 This course aims at enabling students to apply marketing
Services	concepts and principles to the unique challenges and
Services	opportunities of services marketing to create customer value
	CO-2. Applying the concepts of Consumer Behavior to service
	Industry
	CO-3. Creating new services, Identifying and classifying supplementary services, Designing Service blue prints
	CO-4. Implementing the pricing decision in service Industries CO-5. Designing the service distribution network .

Department of Philosophy

Programme Outcomes: Philosophy

PHILOSOPHY	After successful completion of three year degree program	
	a student should be able to;	
Programme Outcomes	PO-1.It enables the students to think critically, logically, creatively and independently PO 2. It makes the students decisive and enhances their level of	
	confidence	
	PO-3.It provides the wisdom to the students to understand the world all its aspects.	
	PO-4. It makes the students aware of real purpose of their life learn the truth of life	
	PO-5. It improves their reasoning and critical skills	
	PO-6. It inculcate such moral and spiritual values which helps students to lead a peaceful and balanced life in this materialistic world	
	Programme Specific Outcomes	
Programme Specific	PSO-1. Jobs in teaching as well as civil services	
Outcomes	PSO-2. Competitive exams	
	PSO-3. Student can move for the higher studies.	
С	ourse Outcomes B.A. (Philosophy)	
	Semester-I	
Course	Outcomes After completion of these courses students should be able to;	
	The aim of this paper is to familiarize the student with subject, its	
Paper: Elements of	branches, problems and methods.	
philosophy	CO-1.The contents of this paper provide the students with a wider canvas about tackling day to day problems from a larger perspective	
	CO-2. The student will learn to recognize and articulate	
	fundamental questions about what exists, what we can know and how we should live our life.	

	Semester-II
	This paper aims at a systematic study of the science of logic which is
Paper: logic	the most effective means of developing logical abstract thinking in us
	CO-1. It tries to provide students with a mastery of logic so that they
	can think it clearer terms and be less prone to error.
	CO-2. Logic is to determine the validity of arguments. It develops
	vocabulary knowledge and sharper the brain of student by using the
	symbol logic.
	Semester-III
	This paper highlights the ethical philosophies propounded in the
Paper: Indian ethics	different Indian
-	Philosophical systems.
	CO-1. It exposes the students to the main tenants of different Indian
	philosophical systems like Buddhism, Sikhism, Gandhism, Gita and
	Vedic culture.
	Semester-IV
	This paper gives an insight into the nature of ethics, moral notions and
	basic moral theories as propounded by Western ethical philosophers.
	This paper also deals with problems of applied ethics
	CO-1. The student of philosophy comes to know about the ideas and
Paper: Western Ethics	thoughts of western philosophers and with the help of that they can
-	develop their own thoughts. A student of philosophy gets enriching
	outcome that shapes their lifestyle in the best possible way.
	Semester-V
	This paper discusses the main epistemological and Metaphysical
Paper: Indian epistemology	issues as discussed in various Indian philosophical systems.
and metaphysics	CO-1. It develops the philosophical ideas and enriches the values of
	action. Students come to know about the importance of nishkam
	karma, swadharma, lok sangraha and apply this philosophy in his or
	her life.
	Semester-VI
Paper: Western	This paper aims at exposing the students to main epistemological and
epistemology and	metaphysical theories and problems of western philosophy. It also deals
metaphysics	with basic themes of existentialism, logical positivism and analytical
	philosophy.
	CO-1. Student will be able to explain epistemological concepts such as
	nature of knowledge, justification, evidence and skepticism. Student
	also able to know the metaphysical concept such as god, soul and
	reality etc.

Department of Political Science

Programme Outcomes: Political Science

Political Science	After successful completion of three year degree program in BA
	with Political Science a student should be able to;
Programme Outcomes	PO-1.The course curriculum inculcates among students a basic
	understanding of the rights and duties of citizen with special reference to
	directive principles of state policy.
	PO-2.Encouraging a comprehensive, comparative understanding of specific world constitutions such as UK & USA.
	PO-3. Developing knowledge of administrative studies with special
	reference
	to Indian administrative structures and practices.
	PO-4. Students enable to develop academic proficiency in the subfields of
	Indian Government and Politics, Comparative Government,
	International Relations, Political Theory.
	PO-5. Use of case study method for analysing the working of important
	International and regional organisations like UN, EU, SAARC etc.
	PO-6. Examining India's foreign policy with her neighbours and great
	powers.
	PO-7. Demonstrate the ability to outline and defend a vision of politics in
	areas such as justice, equality, liberty, democracy.
Programme Specific Outcomes	
Programme Specific	PSO-1.Serve as a politician.
Outcomes	PSO-2. Work as a teacher in schools and high schools.
	PSO-3. Serve as political party member, political adviser, and well citizen
	of India.
	PSO-4. Work in elections and political as well as administrative system.
	PSO-5. Can admit to MA Pol.Sci., LLB.
	PSO-6. Work in NGOs.
	PSO-7. Can Prepare for upsc & other Competitive exams.
Course Outcomes B.A(Political Science)	
	Semester-I
Course	Outcomes: After completion of these courses students should be able
	to

(0033)	CO-1. Students enable to understand the nature and scope of
Political Theory-l	political theory.
•	CO-2. Students enable to understand the various traditional and
	modern theories of political science.
	CO-3. Assessing the theories of State (Origin, Nature,
	Functions): Social Contract Theory with special
	reference to Hobbes, Locke, Rossoueu.
	CO-4. Evaluating the theories of the State: Liberal and Neo-liberal
	theory, Marxist theory and Gandhian theory.
	CO-5. Analysing the concept of Sovereignty of the State.
	Discussing Monistic Theory, Pluralistic Theory, Doctrine of
	Popular Sovereignty.
	Semester-ll
	CO-1. To learn the origin of the concepts such as Power,
	Authority, and Legitimacy.
(0135)	CO-2. Accessing the concepts of Rights, Duties and their
Political Theory-II)	relationship.
i ondear i neory ny	CO-3.Understanding basic concepts of Liberty, Equality and Justice.
	CO-4. Analysing the Concept of Democracy: Nature,
	Features and Critique.
	CO-5. Examining the theory of Democracy: Elite & Marxist.
	Semester-III
	CO-1. Introducing the Indian Constitution with a focus on the role of the
	Constituent Assembly and examining the essence of the the Preamble.
(0234)	CO- 2. Examining the Fundamental Rights and Dutles of Indian Chizens
Indian Government &	CO_{-3} Assessing the nature of Indian Federalism with focus on Union-
Politics)	State Relations
	CO 4- Critically analyzing the important institutions of the Indian Union:
	The Executive: President; Prime Minister, CoMs. Governor, Chief
	Minister an Council of Ministers; The legislature: Rajya Sabha, Lok
	Sabha, Speaker, State Legislature, The Judiciary: Supreme Court and
	the High Court.
	CO-5. Students enable to know the salient features of Indian
	Constitution.
Semester-IV	

(0334	CO-1.Students enable to evaluate the evolution, functioning and
Indian Politics)	consequences of political parties & pressure groups in India.
	CO-2. Critically evaluating the Indian Party system – its development
	and looking at the ideology of dominant national & regional parties.
	CO-3 Evaluating the role of various forces on Indian politics: religion;
	language; caste; regionalism.
	CO-4 Evaluating the Electoral Process in India with focus on the Election
	Commission: Composition, Functions and Role.
	CO-5. Examining Indian Foreign Policy: Basic Principles, Non
	alignment & its relevance.
	Semester-V
(0426)	CO-1. Tracing the evolution of Comparative Politics as a discipline
Comparative	and drawing a distinction between Comparative Politics and
PoliticalSystems(U	Comparative Government.
K&USA)	CO-2. Investigating the nature and scope of Comparative Politics.
	CO-3. Exploring the Constitution of UK: salient features; the executive –
	the Crown, Prime Minister and cabinet; the legislature: House of
	Lords, House Commons, speaker and
	Committees; Party System in UK.
	CO-4. Exploring the US Constitution: salient features; the executive:
	Indicional the composition and role of the Supreme Courts Bill of
	Bights: Party System
	CO = S Making a comparative analysis of the following institutions of UK
	and USA: Logislature Executive and party systems
	Somostor VI
(0532)	Semester v_1
	international relations
International	CO-2 Approaches and methods to study the discipline through Political
Politics: Theory &	realism&
Practice	idealism.
	CO-3. Students enable to demonstrate an understanding of: contemporary
	international system: and the key actors which shaped the international
	Politics i.e National power, Balance of Power & Collective Security.
	CO-4. Studying the developments in third world countries in post world war
	II era like NAM: Relevance, ASEAN, SAFTA and SAARC, NIEO after
	coldwar.
	Co-5. Evaluating bi-polar world order during cold war, uni-polar world
	order& multi-polar world order after cold war.
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Department of Home Science

Programme outcomes of :Home Science

Hama Caian aa	
Home Science	After successful completion of three year degree program in bachelor of
	arts
	A student should be able to
Programme Outcomes	PO 1- Students understands human physiology, health, family
	goals and immunization. Skill development in the field of
	garment industry, foods and nutrition and clothing and construction.
	PO2-Students have deep knowledge of design, arts and elements
	of design.
	PO3-Students develops skills of garment construction.
	PO4-Students identify human nutritional requirements
	PO5- Students understand the planning of diets
	Programma Spacific Autoomas
D C +0*	PSO1 Strategies and in family the state of the state
Programme Specific	PSO1-Students can counsel in family courts, nursery schools and
Outcomes	day care centers.
	PSO2-Students can serve as surveyor in health department and
	social surveys.
	PSO3- Students can become dietician after clearing registered
	dietician exam.
	PSO4-Students can appear for civil services and allied services.
	PSO5-self employment as an entrepreneur is possible.
	Course Outcomes
	Semester-I
Paper code- FRM	CO1- Students should have knowledge regarding different types of
-	
Paper name- Family	diseases and their prevention also
Paper name- Family resource management	CO2- students have deep understanding of elements of arts and
Paper name- Family resource management	CO2- students have deep understanding of elements of arts and design with respect to house.
Paper name- Family resource management	CO2- students have deep understanding of elements of arts and design with respect to house. CO3- Students know about different types of colour schemes and
Paper name- Family resource management	 CO2- students have deep understanding of elements of arts and design with respect to house. CO3- Students know about different types of colour schemes and their application.
Paper name- Family resource management	 CO2- students have deep understanding of elements of arts and design with respect to house. CO3- Students know about different types of colour schemes and their application. CO4- They have indepth knowledge of principles of interior
Paper name- Family resource management	 CO2- students have deep understanding of elements of arts and design with respect to house. CO3- Students know about different types of colour schemes and their application. CO4- They have indepth knowledge of principles of interior decoration.
Paper name- Family resource management Paper code- CLT	 CO2- students have deep understanding of elements of arts and design with respect to house. CO3- Students know about different types of colour schemes and their application. CO4- They have indepth knowledge of principles of interior decoration. CO1- They have indepth knowledge regarding the identification of
Paper name- Family resource management Paper code- CLT Paper name- Clothing and	 diseases and their prevention also CO2- students have deep understanding of elements of arts and design with respect to house. CO3- Students know about different types of colour schemes and their application. CO4- They have indepth knowledge of principles of interior decoration. CO1- They have indepth knowledge regarding the identification of different types of fibres.
Paper name- Family resource management Paper code- CLT Paper name- Clothing and textiles	 diseases and their prevention also CO2- students have deep understanding of elements of arts and design with respect to house. CO3- Students know about different types of colour schemes and their application. CO4- They have indepth knowledge of principles of interior decoration. CO1- They have indepth knowledge regarding the identification of different types of fibres. CO2- Students have clear understanding about textile
Paper name- Family resource management Paper code- CLT Paper name- Clothing and textiles	 diseases and their prevention also CO2- students have deep understanding of elements of arts and design with respect to house. CO3- Students know about different types of colour schemes and their application. CO4- They have indepth knowledge of principles of interior decoration. CO1- They have indepth knowledge regarding the identification of different types of fibres. CO2- Students have clear understanding about textile identification and their properties
Paper name- Family resource management Paper code- CLT Paper name- Clothing and textiles	 diseases and their prevention also CO2- students have deep understanding of elements of arts and design with respect to house. CO3- Students know about different types of colour schemes and their application. CO4- They have indepth knowledge of principles of interior decoration. CO1- They have indepth knowledge regarding the identification of different types of fibres. CO2- Students have clear understanding about textile identification and their properties. CO3- Students have knowledge about making of different types of
Paper name- Family resource management Paper code- CLT Paper name- Clothing and textiles	 diseases and their prevention also CO2- students have deep understanding of elements of arts and design with respect to house. CO3- Students know about different types of colour schemes and their application. CO4- They have indepth knowledge of principles of interior decoration. CO1- They have indepth knowledge regarding the identification of different types of fibres. CO2- Students have clear understanding about textile identification and their properties. CO3- Students have knowledge about making of different types of taxtile fibres.
Paper name- Family resource management Paper code- CLT Paper name- Clothing and textiles	 diseases and their prevention also CO2- students have deep understanding of elements of arts and design with respect to house. CO3- Students know about different types of colour schemes and their application. CO4- They have indepth knowledge of principles of interior decoration. CO1- They have indepth knowledge regarding the identification of different types of fibres. CO2- Students have clear understanding about textile identification and their properties. CO3- Students have knowledge about making of different types of textile fibres. CO4- they have alege ideas about the techniques of dusing and
Paper name- Family resource management Paper code- CLT Paper name- Clothing and textiles	 diseases and their prevention also CO2- students have deep understanding of elements of arts and design with respect to house. CO3- Students know about different types of colour schemes and their application. CO4- They have indepth knowledge of principles of interior decoration. CO1- They have indepth knowledge regarding the identification of different types of fibres. CO2- Students have clear understanding about textile identification and their properties. CO3- Students have knowledge about making of different types of textile fibres. CO4- they have clear ideas about the techniques of dyeing and printing.
Paper name- Family resource management Paper code- CLT Paper name- Clothing and textiles	 diseases and their prevention also CO2- students have deep understanding of elements of arts and design with respect to house. CO3- Students know about different types of colour schemes and their application. CO4- They have indepth knowledge of principles of interior decoration. CO1- They have indepth knowledge regarding the identification of different types of fibres. CO2- Students have clear understanding about textile identification and their properties. CO3- Students have knowledge about making of different types of textile fibres. CO4- they have clear ideas about the techniques of dyeing and printing.
Paper name- Family resource management Paper code- CLT Paper name- Clothing and textiles Paper code- FN	 diseases and their prevention also CO2- students have deep understanding of elements of arts and design with respect to house. CO3- Students know about different types of colour schemes and their application. CO4- They have indepth knowledge of principles of interior decoration. CO1- They have indepth knowledge regarding the identification of different types of fibres. CO2- Students have clear understanding about textile identification and their properties. CO3- Students have knowledge about making of different types of textile fibres. CO4- they have clear ideas about the techniques of dyeing and printing. CO1- Students have indepth knowledge about the various nutrients which the provide the bade.

nutrition	CO2- They have basic knowledge about the various types of diets for the
	patients.
	CO3- They can make the therapeutic diets for different diseased patients.
	CO4- They can done health surveys on the basis of 24 hour recall method.
	Semester-II
Paper code- FRM	CO 1- Students have knowledge regarding the survey work and
Paper name- Family	different types of design.
resource management	CO2- They have basic ideas about the interior decoration of the
_	house.
	CO3- They can easily identify the basic metals and non-metals
	which are being used on their household levels.
	CO4- They know about the different types of cleaning techniques
	for the glassware's and other equipments.
Paper code- CLT	CO1- Students have knowledge about the garment construction
Paper name- Clothing and	and pattern making.
textiles	CO2- They have the clear the principles of design with respect to
	the clothing construction.
	CO3- They can apply the element of arts on the pattern making
	and clothing construction.
	CO4- Students have basic ideas about different types of fabric
	making and construction.
Paper code- FN	CO1-Students have indepth knowledge about the child birth and various
Paper name- Foods and	complications during this.
nutrition	CO2- They can guide to the parents for the overall development of their
	new born children.
	CO3- They can make different of types of recipes with respect to the age
	and requirement of people.
	CO4- Students can act as child educator in the field of teaching.

Department of Geography

Programme Outcomes: Geography

Geography	After successful completion of three year degree program in RA
Geography	with Geography a student should be able to:
Programme Outcomes	PO-1. The course curriculum inculcates among students a basic
	understanding of earth sciences and synthesize geomorphic material
	(like properties of rocks, minerals and its characteristics)
	PO-2. Encouraging a student to comprehensive, comparative
	understanding of spatial distribution of regions of world
	PO-3 Develped knowledge of climatical and wheather conditions
	of perticular area
	PO-4. Students enable to develop academic proficiency in the subfields
	of Survey of India, Cencus od India, Geographical theories.
	PO-5. Student able to do primary and secandry survey to understand
	the problems and analyze the demographic data and its properties of
	a particular region.
	PO-6. Student able to making maps and other geometrics diagrams
	related to geographic data (like population density, population
	distribution, crop combination).
	Programme Specific Outcomes
Programme Specific	PSO-1.Serve as a Geographer.
Outcomes	PSO-2. Work as a teacher in schools and high schools.
	PSO-3. Serve as political party member, political adviser, and well
	citizen of India.
	PSO-4. Work in elections and political as well as administrative
	system.
	PSO-5. Can admit to M.A., M.sc in Geography and remote sensing.
	PSO-6. Work in NGOs.
	PSO-7. Can Prepare for upsc & other Competitive exams.
	Course Outcomes
	Semester-I
(Geomorphology)	CO-1. Students enable to understand the nature and scope of
	Geography
	CO-2. Students enable to understand the various theories of
	eatrh's orgin and its topographical patterns
	CO-3.Assessing the theories of continents (Theory of continent
	drift and plate tectonic.
	CO-4. Student also understand the internal and external
	movements of the earth from this student also studies about
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	CO-5. Student easility understand the major landforms.
	Semester-ll
(Geography of India)	CO-1. To learn about India's location and its neighbouring countries.
	CO-2. Accessing the knowldge of relief, drainage system and natural vegetation of India.
	in major states of India.
	CO-4. Analysing the Concept trade system with realating to foregin trade policies.
	Semester-III
(0432 World Regional Geography I)	CO-1.Introducing the world's major continents (Anglo America, Latin Amercia, Australia and Europe). CO- 2. Examining relief, drainage system and natural
	vegetation of major continents CO-3.Assessing the knowldge about mineral and power
	resources and its distribution . CO 4Understanding various types of crops and its production in major countries of world.
	CO-5. Analysing the Concept trade system with realating to
	foregin trade policies and major ports of world.
(Climatology)	CO-1.Students enable to evaluate the nature and scope of
(emineter egg)	climatelogy and know the difference between weather and climate
	CO-2.Student easily understand the whether conditions of particular area
	CO-3 Evaluating the role of climatic conditions on Indian
	CO-4 Evaluating the wind and pressure system overall the
	world according to temprature belts.
	Semester-V
(Geography of	CO-1. To learn about Punjab's location and its neighbouring
Punjab)	countries.
	CO-2. Accessing the knowldge of relief, drainage system and natural vegetation of Puniab
	CO-3.Understanding various types of crops and its production
	in major states of Punjab.
	CO-4. Analysing the Concept trade system with realating to foregin trade policies.
	CO-5. Assessing the knowldge about mineral and power resources and its distribution of Punjab

SemesterVl	
	CO-1.Introducing the world's major continents (Asia and
(World Regional	Africa).
Geography II)	CO- 2. Examining relief, drainage system and natural
	vegetation of major continents
	CO-3. Assessing the knowldge about mineral and power
	resources and its distribution.
	CO 4 Understanding various types of crops and its production
	in major countries of world.
	CO-5. Analysing the Concept trade system with realating to
	foregin trade policies and major ports of world.

Department of Economics

PROGRAM SPECIFIC OUTCOMES:

- 1. Economics students in general will be able to pinpoint and understand the past, present economic conditions of the country. They will also be able to forecast the future course of changes and development through their knowledge of policies and programmes set by the governments and other development agencies. They are equipped with the techniques to find solution of the problems like mobilization of manpower and materials available in the country.
- 2. As the Under Graduate Course (UGC) contains the fields like statistics, mathematics and economics principles, it enhances them to compute and assess the real situation of the economy including the size and changes of population income pattern, nature of an extend of employment, rate of development with pattern of investments and savings, policies in relation to other countries, and social security measures adopted in the country.
- 3. Basically, economic graduates are familiar with the knowledge and application of microeconomics and macroeconomics for the formulation of policies and planning. They are equipped with all the relevant tools/ knowledge based on economic principles including market functions and structures, efficiency in manpower and resources management, need of credit/finance for initiating and accelerating projects.
- 4. Though the syllabi do not contain research methodology, students are taught the techniques to collect and disseminate information like primary and secondary data, preparation of questionnaire. Students are deployed to do survey and on the spot interaction with the personnel of the case under study. Students who graduated from this institution are directly involved and effectively participate in the discussions .
- 5. Graduates from our department are effectively taught and explained the cause with the help of visual aids like white board. They will be able to visualize the real world situation and enhance them to initiate the programmes for pursuing studies and be alert with the importance of entrepreneurial skills for their self employment, to improve the general attitudes and living conditions of the masses.

In the nutshell : the Students should be able

- 1. To understand basic concepts of economics.
- 2. To analyze economic behavior in practice.
- 3. To understand the economic way of thinking.
- 4. To analyze historical and current events from an economic perspective.
- 5. To write clearly expressing an economic point of view.

- 6. To be exposed to alternative approaches to economic problems through exposure to coursework in allied fields.
- 7. To create students ability to suggest of the various economic problems.

Course Outcome:

Sem-I (MICRO ECONOMICS)

Objectives: Microeconomics is concerned with the analysis of economic phenomena from the perspective of the individual. The course covers the basic concepts and tools needed to undertake the analysis of such problems that arise due to the law of scarcity. The course also aims at introduction of the functioning of competitive and noncompetitive product markets and performance of the markets for resources. The students are expected to develop rudimentary understanding of how and why consumers, firms, and markets in the economy function the way they do.

Upon completion of Micro economics, students should be able to:

- 1. Analyze about Traditional and Modern Definitions of economics.
- 2. Understand about Methodology in economics.
- 3. Perform supply and demand analysis to analyze the impact of economic events on Markets.
- 4. Analyze the behavior of consumers in terms of the demand for products.
- 5. Analyze the performance of firms under different market structures.
- 6. Evaluate the factors affecting firm behavior, such as production and costs to analyze the Behavior Pattern of the Firms.
- 7. To be aware about Price determination of firms under different Market Structures Perfect and Imperfect Market.
- 8. To grasp knowledge regarding Different Pricing Strategy.
- 9. To have a better awareness regarding different Factor PricingRent, Wages, Interest, Profit.

SEM -II (MACRO ECONOMICS)

Objectives: This paper aims to familiarize the student with the generally accepted principles of macroeconomics. It deals with aggregates i.e. consumers as a whole, producers as a whole, exporters and importers as a whole, the effects of government spending and taxation, and the monetary policy of the central bank. The course includes the basic theories of determination of income, consumption, investment, employment, money and interest, inflation, Monetary and Fiscal policies, and business cycles.

Upon completion of Macro - economics, students should be able to:

- 1. Compute different measures of macroeconomic activity such as the national income accounts, inflation, and unemployment, and evaluate the shortcomings of traditional economic measures.
- 2. Analyze the forces that affect the aggregate level of economic activity.
- 3. Understand Business cycle using AD-AS analysis.
- 4. Recognize how monetary and fiscal policy can be used to achieve policy goals.
- 5. Know the Operation of multiplier

- 6. Learn Macro income and employment theories
- 7. Focus on Determination of income, consumption, investment, employment, money and interest, inflation, Monetary and Fiscal policies, and business cycles.

SEM –III (Public Finance and International Trade)

Objectives: The primary course objective is to introduce the students to the basics of public finance and international trade. The first two units aim to introduce students to the primary functions of government to generate resources from the people and to spend money improving their lives. The last two units are concerned with basic theories of international trade and commercial policies, balance of payments, determination of exchange rates and role of international financial institutions.

Upon completion of Public Finance and International Trade, students should be able to:

- 1. Understand the sources of finance both public and private, demonstrate the role of government to correct market failures and possible advantage of public financing.
- 2. Attain the advantages and knowledge of public investments and other government expenditures. Understand the causes of growing public expenditures for various programmes and policies within and outside the country.
- 3. Understand the possible burden, benefits and distribution of various types of taxes among various classes of people, know the general trend and impact on general welfare and arouse them to suggest good and bad tax system.
- 4. Understand the needs of public borrowing from all possible sources to meet necessary public investment/expenditures. Also be alerted to find sources for repayment.
- 5. Identify the basic difference between inter-regional and international trade, understand how international trade has helped countries to acquire goods at cheaper cost and explain it through the various international trade theories.
- 6. Show the benefits of international trade in a way how nations with strong international trade have become prosperous and have the power to control world economy and how global trade can be one of the major contributors of reducing poverty.
- 7. Explain how restrictions to international trade would limit a nation in the services and goods produced within its territories and at the same time explain that a rise in international trade is essential for the growth of globalization.
- 8. Show the importance of maintaining equilibrium in the balance of payments and suggests suitable measures to correct disequilibrium as well.
- 9. Be aware of the changes in the composition as well as direction of foreign trade after international trade and know the causes and effects of deficits in the balance of payments, measures adopted to correct the deficits and identify the need for having trade reforms.

SEM –IV (Quantitative Methods)

Objectives: The objective of the course is to train the students in the use of basic mathematical and statistical tools in analyzing various economic phenomenons. It deals with the design of how data is presented, the analysis of the data, and the drawing of conclusions from the data. The course aims to improve decision-making accuracy of the students and enabling them to test new

ideas.

Upon completion of Quantitative Methods, students should be able to:

- 1. Able to understand meaning, scope & importance of statistics
- 2. Collect appropriate data needed, manipulate and draw inferences, describe the concept of statistical averages, use and apply central tendency, dispersion, skewness, and kurtosis.
- 3. Explain concept of correlation, analyze and interpret covariance and correlation coefficient, illustrate ordinary least squares and use it to estimate regression coefficient. To gain knowledge on correlation and rank correlation and its application.
- 4. Describe the components of time series, apply time series analysis in business scenarios, illustrate the different types of index numbers, and calculate index numbers.
- 5. Able to understand measures and types of price index.
- 6. To understand and apply index number in economic phenomena.

SEM –V (Development Economics)

Objectives: The primary course objective is to introduce the students to the basic features, determinants, and theories and strategies of development of underdeveloped economies. It also introduces students to the theory of how control and direction of economic activity by a central public authority can be used as an alternative to market by the underdeveloped economies.

Upon completion of Development Economics, students should be able to:

- 1. To able to understand conceptualizing development.
- 2. To able to understand theories of economic development.
- 3. To able to understand difference between economic development and economic growth.
- 4. To able to understand planning in india.
- 5. To able to understand Rostow stages of economic growth.
- 6. To able to understand social and technical dualisum.
- 7. To able to understand Classical and neo classical models.
- 8. Distinguish between Economic growth and Development .
- 9. Describe the tools for measuring development.
- 10. Describes the approaches to development .
- 11. Describe the issues and challenges of development .
- 12. Identify the theories of development useful for Indian Economy.

SEM –VI (Indian Economy)

Objectives: The objective of the paper is to familiarize the students with the features and characteristics of the Indian Economy. It also includes performance and problems of Industrial development, Indian tax structure, external trade and balance of payments, and objectives, strategy and performance of Indian planning. The course aims to develop analytical understanding of the students by exposing them to the basic issues of the Indian economy. Upon completion of Indian Economy, students should be able to:

Upon completion of Indian Economy, students should be able to:

- 1. Develop ideas of the basic characteristics of Indian economy, its potential on natural resources.
- 2. Understand the importance, causes and impact of population growth and its distribution, translate and relate them with economic development.

- 3. Grasp the importance of planning undertaken by the government of India, have knowledge on the various objectives, failures and achievements as the foundation of the ongoing planning and economic reforms taken by the government.
- 4. Understand agriculture as the foundation of economic growth and development, analyse the progress and changing nature of agricultural sector and its contribution to the economy as a whole.
- 5. To provide basic understanding of the features and determinants of Indian Economy .
- 6. To understand the concept of poverty and poverty line .
- 7. To make awareness about Human development index .
- 8. To create an idea about the significance of Agriculture in Indian Economy .
- 9. To understand the importance of small, medium and large scale industries and its problems.
- 10. To make awareness about the significance of Industry and service sector in Indian Economy.
- 11. Multi National Corporations.

Department of Physical Education

Programme Outcomes: Physical Education

Department of Basic	After successful completion of three year degree program in Physical	
Sciences	education a student should be able to;	
Program me	PO-1. Physical education provides in with a great opportunity for the	
Outcomes	students to attain physical and mental balance in their life which would	
Outcomes	help them in their academic and overall growth in life.	
	PO-2.Physical education is not just the group of physical exercises or	
	games, but in broaden sense also includes the study of various topics that	
	involve in good health and techniques that would make one life better.	
	PO-3.Physical education provides students with opportunities to learn some	
	special skills, develop physical fitness and gain understanding about the	
	importance of physical activity. PO(4) Physical advection as a subject sime at improving physical as well as	
	r 0-4. Firstcal education as a subject and strong physical as well as mental health of the students and providing them with the knowledge to	
	lead a healthy life ahead.	
Programme Specific Outcomes		
Programme Specific	PSO-1. A students with passion for sports can also work as coach, team	
Outcomes	manager/sports manager	
	PSO-2. In today's era spas and yoga centres are at a fise, one can also	
	such places	
	PSO-3. Students can also look forward to satisfying jobs in assignments	
	such as umpires and referees.	
	PSO-4.Student of physical education put their knowledge to use in	
	sports journalism, marketing, commentator and other related fields.	
	PSO-5. Trained physical education personnel get priority in	
	defence and policies services with special recruitment.	
	Course Outcomes Physical Education	
	Semester-I	
	CO-1. Know about pre and post independence development of	
Paper-I	physical education in india.	
	CO-2. Learn about ancient Olympic games, modern Olympic	
	games and common wealth games	
	CO-3.understands the various schemes in sports and their	

	functions
	CO-4 Learn basic fundamentals of handball
	CO-5 Learn about the history of the handball
	co 5. Lean about the history of the handoun.
	Semester-II
	CO-1. Understand the muscular system, structure and function of
Paper-I	muscular system.
	CO-2. Learn about the importance of warming-up and cooling
	down in sports and its significance.
	CO-3.learn about components of physical fitness.
	CO-4. Learn about the importance of health education.
	CO-5. Understand the biological basis of physical education.
	Semester-III
	CO-1. Able to know psychological characteristics and identify
Paper-I	problems of an adolescence.
	CO-2. Importance of motivation in physical education and sports.
	CO-3.study various factors affecting the development of
	personality.
	CO-4. Understand making and layout of field.
	CO-5. Learn the basic fundamentals rules of softball.
	Semester-IV
	CO-1. Learn about maintenance of blood supply.
Paper-I	CO-2. Learn about the history of the tennis.
	CO-3. Know about the rules and regulations of tennis.
	CO-4. know about the meaning and aim of yoga.
	CO-5. Study the problems of the disabled ,physical activity and health
	of disabled.
	Semester-V
	CO-1. Study various theories of play and its significance in
Paper-I	physical education and sports.
-	CO-2. Understand the meaning and types of tournament and its
	merits and demerits.
	CO-3.learn about the organization of an athletic meet.
	CO-4. Know about types of massage and their benefits.
	CO-5. Learn about the rules and regulations of the cricket.

Semester-VI	
	CO-1. Learn about the main organs of nervous system and their
Paper-I	functions.
	CO-2. Learn about the main organs of excretory system and their
	functions.
	CO-3.understand the characteristics and principals of sports training.
	CO-4. Learn about the meaning of blood pressure.
	CO-5. Effects of physical exercises on various system of body.

Department of Music

Programme Outcomes: Music

Department of	After successful completion of three year degree program in Music a student	
Music	should be able to;	
Program me	PO-1 Learns to write the practical compositions according to the notation	
Autcomes	system	
Outcomes	PO-2 creates own rhymes games songs and simple compositions	
	PO-3 They are able to recognize classify and interpret Indian musical ragas	
	and their divisions	
	PO-4 experiments with different forms of technology in the composition	
	process	
	PO-5 sings or plays different instruments.	
	Programme Specific Outcomes	
Programme	PSO-1 . Students will be able to make their career as a singer or perform on	
Specific Outcomes	his/her instrument.	
•	PSO-2 . Students can become coach for Indian orchestra, percussion, non-	
	percussion etc.	
	PSO-3 . Perform a variety of music with expressions and musical	
	accuracy.	
	PSO-4 . They are able to organize musical competitions, concerts and	
	workshops.	
	PSO-5 . Students can establish his/her own institutes and they can	
	teach music as a subject in school/colleges also.	
	Course Outcomes :Music	
	Semester-I	
Course	Outcomes	
	After completion of these courses students should be able to;	
	CO 1 Learn different ictic of Degree of the present race system of north	
Donor I	Locion music	
r aper-r	CO 2 know about Bhatkhanda Notation System	
	CO-3 know about Shruti Swara Santak and Alankaars	
	CO-4 Learn to write Alankaars in taal	
	CO-5 Learn to sing and play National Anthem	
	co o. Louin to Sing and play Futional Antional	
Semester-II		

	CO-1. Know about Bhatkhande Thaat Paddhati.	
Paper -I	CO-2. Know about Laya and Taal in Music.	
-	CO-3. Understand the various bols of Mizrab.	
	CO-4. Demonstrate Dadra, Ektaal and Kehrawa taal by hand in	
	Ekgun and Dugun layakaaries	
	CO-5. Learn about the life and contribution of the Pt.vishnu	
	Digamber Pluskar, Pt. Ravi Shankar and Ustad Hafiz Ali	
	Khan in Hindustani music.	
	Semester-III	
	CO-1. Know about Gun and Dosh of Gayak and Vadak.	
Paper-I	CO-2. Know about Alap and its various forms.	
_	CO-3.Learn about Avirbhav-Tirobhav and Alaptav-Bahutav.	
	CO-4. Learn about the life and contribution of the Ustad Faiyaz Khan	
	Sahib, Sh. Krishan Rao Shankar, Pandit, Ustad Inayat khan Sahib, Pt. Lal	
	Mani Mishra in Hindustani music.	
	CO-5. Demonstrate Tilwada, Chaartaal, Ektaal, Rupak and Kehrawa Taal	
	by hand in Ekgun and Dugun layakaaries.	

	Semester-IV
	CO-1. Learn about the historical development of north Indian music
Paper-I	during 13 th to 17 th century.
	CO-2. Know about the classification of Indian musical instruments
	CO-3.Understand the musical terms like Kampan, Meend, Zamzama,
	Krintan,Gamak .
	CO-4. Know about the life sketches of the great masters of music like
	Ustad Amir Khan Sahib, Ustad Vilayat Khan Sahib etc. and their
	contributions in Hindustani music.
	CO-5. Demonstrate Tivra, Jhaptaal and Rupak by hand in Ekgun and
	Dugun Layakaaries.
	Semester-V
	CO-1. Know about the variety of Tana/Tora.
Paper -I	CO-2. Learn about the different Vadan Shaillies of their own
-	instrument.
	CO-3 Understand the Time theory of Indian Ragas.
	CO-4. Know about the Life sketches of the great masters of music like
	Ustad Bismillah Khan ,Pt. Kumar Gandharv etc. and their contributions
	in Hindustani music.
	CO-5. Demonstrate Jhoomra, Sultaal, Deepchandi, Tilwada by hand in
	Ekgun and Dugun Layakaaries.

Semester-VI

	CO-1.Understand the role of Akashvani and Doordarshan towards the
	popularizing of Indian Classical Music.
	CO-2.Understand the role of Electronic Mediums(Basic Instruments)i.e.
	ElectronicTabla, Tanpura.
Paper -I	CO-3.know about Uttari and Dakshani Sangeet Paddhati.
-	CO-4. Know about the life sketches of the great masters of music . like
	Ustad Vilayat Hussain khan , Dr. Panna Lal Ghosh etc. and their
	contributions in Hindustani music.
	CO-5. Demonstrate Dhamaar, Sultaal, Deepchandi, Adachautaal by hand
	in Ekgun and Dugun Lavakaaries
	In Engun und Eugeneentee.

Department of Skill Development Courses

Program	Programme Outcomes: B.Voc. Retail Management	
Department of Retail	After successful completion of three year degree program in B.voc	
mangement	retail management a student should be able to;	
Programme Outcomes	 PO-1. Apply knowledge of retailing and can relate things with the real world to solve business problems. PO2: Ability to develop critical thinking skills and can apply same in solving real world business problems. PO3:Compare and contrast different challenges and decision making skills. PO4: Recognize carrer opportunities that are available in retail business and can lead themselves effectively in the retail environment 	
Programme Specific Outcomes	 PSO-1. Become proficient with the retail terms, specialized practical knowledge of applying various strategies of retailing in the business and contributing towards its success. PSO2: Be capable of marketing a product or a service. PSO3: To understand consumer behavior, preferences, and consumer satisfaction techniques. 	
	Course Outcomes B.voc RM	
	Semester-I	
Course Outcomes:	After completion of these courses students should be able to;	
Gen101 Communication Skills	 CO-1. Focus in different aspects of communication in general and business communication in particular CO-2. Developing language and writing skills CO-3.Focus on interview techniques CO-4. Writing tender, business letters, notice memos, resume and public notice CO-5. Improve communication skills 	
Gen 102	CO-1 Understand the basic concept and terminology of information	
Fundamentals of IT	 technology CO-2. Have a basic understanding personal computer CO-3. Acquire knowledge about generation of computer and types of computer CO-4. Know about hardware and software methods CO-5. Learn about internet and browsing services available in internet. 	

RSC 103 Product display and Visual Mercandising	 CO-1. To provide students with fundamentals of organizing the display of products at retail store. CO-2. To plan, schedule, supply of products related with retail store CO-3. To recognize the accessories to be used for effective display and essential requirements of retail store . CO-4. To understand the importance and elements of visual mercandising CO-5. To make and implement policies regarding merchandise. CO-1. To aware about customer needs and preferences in target
RSC104 Customer Relationship Management	 market. CO-2. To adopt approaches on how to monitor store settings and to provide ambience services to customers. CO-3. To identify loyal customers by providing them quality and excellent services . CO-4.To investigate into customer problems and provide immediate and rational solutions. CO-5.Summarize the role of satisfied customer and customer retention policies.
RSC 105 Sales processing and sales management	 CO-1. To provide the enlarged view of sales processing techniques in relation to retail environment CO-2. To ensure that store contain adequate number of products at proper time and awareness about rights of customers. CO-3. Various cash handling techniques and POP services. CO-4. Detailed information regarding products and pricing policies adopted by retail stores. CO-5. Various billing instruments and sales promotion techniques used by retail stores.

	Semester-II	
Gen201	CO-1. Will develop their social and work life skills	
Soft Skill and	CO-2. Developing their personal as well as social well being	
personality	CO-3.Focus on interview techniques	
development	CO-4. Teamwork, leadership and emotional health will be improved	
	CO-5. Improve communication skills	
Gen 202	CO-1 Understand the basic concept and terminology of business ethics	
Business Ethics	CO-2. Have a basic understanding of importance of business ethics CO-3. Acquire knowledge about corporate social responsibility and	
	corporate governance. CO_{-4} Know about issues related with CSR business ethics and	
	corporate governance	
	CO-5. Enhance awareness and critical examination of oneself	
	and relevance of ethics at workplace.	

RSC 203 Organizational communication in retail	 CO-1. To provide students with fundamentals of and principle of communication in retail. CO-2. To develop an effective approach for communication with various retail stakeholders. CO-3. To prepare for use of online resources for communication in an organization CO-4. To make familiar with business reports and other key records. CO-5. Various communication channels and barriers to proper communication
RSC 204 Human resource management in Retail	 CO-1. To provide knowledge about allocating work in team and working effectively as a team member. CO-2. To adopt approaches on optimum use and allocation of resources. CO-3. Understanding the concept of cultural diversity . CO-4.Setting performance standards and to evaluate performance of employees. CO-5. Effective approaches to resolve conflict and maintaining health and safety measures.
RSC 205 Organizational Effectiveness in Retail	 CO-1. To provide knowledge and skills to work effectively in team and organization CO-2. Understanding cultural difference among organization and knowledge about employee rights and obligations. CO-3.Company policies to deal with accidents and obligation emergency situation in to promote health and safety. CO-4.To make familiar with value system of the organization. CO-5.To develop skills for effective functioning of an organization and apply the same at work settings.
**201 Summer Industrial Training	SIT of 4-6 weeks in relevant industry to apply the theoretical knowledge at workplace and gain knowledge on real time basis.

Semester-III

Course	Outcomes
GEN 301 Value education and	CO1-To make students aware about the importance of values in personal and professional life
human rights	CO2-To develop their personalities in physical, mental and emotional aspects
	CO3- Developing respect for dignity of individual and inculcation of national spirit
	CO4-Make them aware about human rights.
Gen 302 E-Commerce	CO1-To understand the basic concepts and technologies used in area of management information system CO2-To gain knowledge about different types of MIS
	CO3- To be aware of basic tools of e-commerce and use of IT in retailing

	C04- To have knowledge about Electronic data interchange & Enterprise Resource Planning with their applications in retail operations.
RSC 303 Store operations and performance mgt.	 CO1-To be able to set the SMART objectives of retail and regularly monitor their operations CO2- To promote team work and their outcomes CO3-Location,layout,material handling decisions CO4-Recruitment,selection and management of store employees. CO5- To be aware of Cost control techniques used in retail store and various compensation plans
RSC 304 Retail servicing and marketing	 C01-Setting sales targets for different personnel CO2- Opportunity to make student familiar with role of Client Relationship in retailing CO3-ways to promote sales and goodwill of business CO4-identifying various potential competitors and strategies to beat them. CO5-To make familiar with certain laws of record keeping and data protection
RSC 305 Retail store team mgt.	CO1-To make them able to identify the various types of diversities and frame strategies to cope with these diversities at workplace CO2-To know the importance of communication in business CO3-To enhance the importance of team work CO4-To understand the process of team formation CO5- To be able to provide feedback and ways to improve shortcomings in team performance

Semester-IV

COURSE	OUTCOMES
GEN 401Environmental	CO1- To be able to understand and address the environmental issues
studies	CO2- Master core concepts and evaluation of environmental policies
	CO3- Understand the transnational character of environmental
	problems and provide solutions.
	C04- To be able to study the interaction between environment and
	social systems
	C05-Reflect their role as citizens and environmental actors in global
	world.
GC402 Project Mgt.	CO1- To understand the term project and its life cycle along with role
	of project manager
	CO2- To manage the scope, cost, timing, quality of project
	CO3-To align the project to organizational strategic plans
	CO4-identify the goals, delivery time and various constraints
	involved
	CO5-To be able to interact with team members and stakeholders to

	implement various policies and evaluation process
	mplement various policies and evaluation process.
RSC 403 Leadership In	COI- To know the role of departmental manager
Retail	CO2- To know different styles of leadership
	CO3- To communicate effectively with team members and setting
	SMART objectives
	CO4- To know the different ways to motivate, retain, support and
	encourage team members
	CO5- To be able to cope with conflicts, challenges and promote
	creativity within the team
RSC 404 Budgetary	CO1- Introduction to budget and budgetary control systems
control in Retail	C02- Importance of communication on regular performance
	C03-Organizational policies for approving the budgets and revising
	them
	CO4- Using Budget to evaluate the performance
	CO5-To provide knowledge about fraudulent activities involved in
	budget.
RSC 405 Mgt.	CO1- To provide knowledge about application of MIS in retailing
Information System for	CO2-Importance of information in decision making process strategic
retail	planning and controlling
	CO3-To make aware about the concept of information quality.
	overload, filtering
	CO4-To give knowledge about various information systems and
	their applicability in organization
	CO5-System development methodologies, System design and their
	implications in retailing.
SIT** 401	Summer industrial training for practical exposure

Semester-V		
COURSE	OUTCOMES	
GEN 501 Critical thinking and elementary statistics	 CO1-Explain the use of data collection and statistics as tools to reach conclusions. CO2-Examine the basic principles of describing and presenting data and rules of probabilities CO3-Sampling distribution of various variables CO4-Solve linear regression and correlation problems CO5-Perform hypothesis testing using statistical methods. 	
GC 502 Introduction to research methodology and report writing	CO1-Basic concepts of research and research design CO2-Methods of collecting data and sampling techniques CO3-data analysis and its interpretation CO4-To demonstrate the role of computers in research CO5-Writing business reports and proposals and solving various case studies	

RSC 503Acccounting	CO1-To understand basic accounting concepts and
appSlications	CO2-To be able to contrast Cost/management/financial accounting
	CO3-To be able to make data entries and keep cash books
	CO4-to identify and rectify the errors in business records
	CO5- To understand the concepts of cost and management
	accounting.
DCC 504	
RSC 504	COI-To enable students to acquire knowledge of legal aspects of
Business laws for retail	business
	CO2-To understand the aspects of legislation in retail industry
	CO3-To appreciate the relevance of business laws in
	social,economic,political context
	CO4-Examine how business can be held liable in
	not complying with laws
	CO5-Acquire problem solving techniques and able to present valid
	solutions.
RSC505	CO1-Understand relationship between business and environment
business environment	CO2-Applying the environment analysis techniques in actual practice
	CO3-Understand PESTLE environment
	CO4-To know the macroeconomic policies and economic reforms
	laid by government.
	CO5-To have knowledge about current status of technology in India.
Winter industrial training	To enhance their practical skills with industrial exposure
Semester-VI	

COURSES	OUTCOMES
GEN 601	CO1-Have the ability to dicern distinct entrepreneurial skills
ENTREPRENEURSHIP	CO2-To know the parameters to assess opportunities and constraints
DEVELOPMENT	for new business ideas
PROGRAMME	CO3-Designing strategies for successful implementation of ideas
	CO4-Writing business plans
GC 602 TOTAL QUALITY MGT.	CO1-Evaluate the principles of quality mgt. and their applications CO2-identify key aspects of quality improvement cycle CO3-Critically appraise the organizational requirements for effective quality management CO4-Analysis of strategic issues in quality management and implementation plans.
RSC 603 FINANCIAL MGT.	CO1-To know the concepts of financial mgt. CO2-Understand the terms of capital structure and dividends CO3-To have basic knowledge of Cost of capital and its methods CO4-To have practical knowledge on working capital management.
RSC 604 MARKETING MGT.	CO1-Understanding marketing concepts and its evolution

	CO2-Analyze the market based on its segmentation, targeting and
	positioning
	CO3-To know the consumer behavior and their decision making
	process
	CO4-Make decisions on 5P's of marketing
	CO5-Understanding rural markets and issues involved therein.
RSC 605 HUMAN RESOURCE	CO1-Incorporate themselves in changing environment of HRM
MGT.	CO2-Apply right recruitment and selection process, Compensation
	management in retail
	CO3- Job analysis, job design and understanding various training
	needs
	CO4-Understanding Transfer policy and performance management

B.Voc- Food Science and Technology

Programme Outcomes: B.Voc- Food Science and Technology

Food Science and	After successful completion of three year degree program in B.Voc
technology	Food Science and technology a student should be able to;
Programme Outcomes	 PO-1. Apply knowledge of general education subjects and skill development subjects to the conceptualization of food Science and technology. PO2: Designing and formulation of new food products, on the basis of consumers demands, development of methodology/technologies of food processing, design that meet solutions needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations PO3: Conduct and undertake investigations of problems of including design of processing technology for various type food, food analysis, food quality and safety aspects and interpretation of data in order to provide valid conclusions PO4: This program would enable students to update their knowledge and professional skills for entering the work force executing income generating activities or occupying better positions
	Programme Specific Outcomes
Programme Specific	PSO-1. Students with vocational training can find work in
Outcomes	several state and central government organizations, non-profit groups, and academic institutions and in private sectors as well PSO-2: This program prepares students for specific types of occupations and frequently for direct entry into the market.

PSO3: After completion of this program students will have enough competences, to get benefit from market opportunities. PSO4: Communicate effectively on minimal processing activity and value addition to the farmers/producers/grower at large, such as being able to comprehend and write effective reports, design documentation and make effective presentations.

Course Outcomes B.Voc. (FST)

	Semester-I
Course	Outcomes: After completion of these courses students should be able
	to;
GEN - 101	CO-1. Focus on different aspects of communication in general
Communication	and formal communication in particular
Skills	CO-2. Developing language and writing skills
	CO-3. Writing of emails, industrial letters, notice, report writing
	and resume
	CO-4. Focus on interview techniques
	CO-5. Creating interest in literature
GEN - 102	CO-1Students will have command on basic IT skills
Fundamentals of	CO-2. Students will be able to use computer and internet facilities for
Information	their academic and holistic development purpose
Technology	CO-3. Know about hardware/software methods and tools
	CO-4. To facilitate the students to make functional use of IT
	skills in teaching – learning process.
	CO-5. Have a basic understanding of personal computer
FST 103	CO-1. Students will develop knowledge and understanding of
Introduction To Food	different food microorganisms and know different techniques
Microbiology	used to detect microorganisms.
	CO-2. Student will enable to know the basics of microbiology.
	CO-3.To understand the types of food microbes, causes for food
	spoilage process for food spoilage, need for food preservation.
	CO-4. To aware about various techniques that are used to grow
	useful microbes for fermented foods
FST 104	CO-1. Course will acquaint the students regarding the preparation
Bakery And Confectionery	of various bakery, sugar and chocolate confectionary products
Technology-I	CO-2. Understand the importance and role of various ingredients
	used in bakery and confectionary products.
	CO-3. Understand the different methods of bread & cake making and
	their formulations
	CO-4. Understand the different types of biscuits, cookies and
	their methods of manufacturing
	CO-5. Understand the different types of sugar confectionary
	products and their process

FST 105	CO-1. Able to learn their quality control, control of processing
Bakery And Confectionery	parameters and handling of equipments, which is essential for the
Technology-II	students to perform efficiently and effectively in the industry
	CO-2. To understand the various types of sugar and its grades
	CO-3. To provide know about the machinery and process involved in
	the baking process
	CO-4. To know the confectionery product manufacture

Semester-II	
Course	Outcomes After completion of these courses students should be able to;
GEN 201	CO-1. To improve the writing skills of students.
Soft Skills and Personality	CO-2. Presentations skill of students will improve
Development	CO-3.To bring about personality development with regard to the
	different behavioral dimensions that have far reaching significance
	in the direction of organizational effectiveness.
	CO-4. To create awareness in the participants with regard to the
	different aspects of Interpersonal relations based on the ideas
FST 202	CO-1. To impart necessary expertise to run a food service unit.
Management of	CO-2. To provide practical level experience in managing food
Food Industry	service management
	CO-3. To develop a knowledge base in key areas of institutional food
	CO-4 To critically evaluate the functioning of food service units
FST 203	CO-1. Students will ability to know about composition and
Dairy Technology	nutritional value of milk
	uCO-2. To study about physical and chemical properties of milk
	and its related products
	CO-3. To impart knowledge about processing of milk and its products
	and legislation for the quality control of milk and milk products. CO 4. Students should able to learn various techniques about
	milk processing
FST 204	CO-1. To understand about various dairy products that are
Milk And Dairy	highly nutritious
Food Products	
	CO2 : To learn about preparation of various milk based products
	CO3 : Students will able to learn about quality control, hygienic conditions to be maintained and keeping quality of products

FST 205	CO-1. To enable to learn about packaging and packaging
Food Packaging	material for various food products
	CO-2. To learn about testing of various packaging materials to ensure that are safe or unsafe
	CO-3. Ability to learn about multifarious packing technologies include retort processing, glass processing and so on
	CO-4. To know about interaction of packaging material with
	food ingredients
SIT-201 Summer Industrial	CO-1: To create industrial and human relation among students
Training	CO2 : Capability to communicate effectively
	CO3 : Ability to be a multi skilled person with good technical knowledge, management, leadership and entrepreneurship skills

Semester-III	
Course	Outcomes After completion of these courses students should be able to;
GEN 301 Value Education And Human Rights	CO-1. To develop interaction society and educational institutions CO-2. To sensitize the citizens so that the norms and values of human right and duties, education programmes are realized CO-3.To create awareness, conviction and commitment to values for improving the quality of life through education and for advancing social and well being
FST 302 Food Biochemistry	 CO-1. To learn and understand the chemistry with respect to role and functionality of constituents of the food. CO-2. Student will able to understand basic chemistry of carbohydrates, lipids and proteins CO-3. To learn and understand the chemistry of various Food micronutrient used in foods along with their role and properties CO-4. Make different processed food products with quality assurance. CO-5. Students will learn about basic reaction in food and their kinetics; nucleic acid, digestion and electrophoresis - protein electrophoresis, protein purification.

FST 303	CO-1 Students will develop knowledge and understanding of
Food Microbiology	different food microorganisms and different techniques used in its
	anterent rood interoorganisms and different teeninques used in its
	detection.
	CO-2. Students will understand causes of food spoilage of
	different foods and its type.
	CO-3. To enable the students to gain an insight into basic aspects of food microbiology.
	CO-4. To understand the advanced techniques in microbial analysis of food.
FST 304	CO-1. To generate the skill of handling the different instruments
Food Analysis and	of food process technology
Instrumentation	CO-2. To understand the sensory evaluation methodology used
	for food analysis
	CO-3. Students will able to Demonstrate interaction of food by using
	different analytical techniques
	CO-4. Learning ability to assess physico-chemical properties of foods
FST 305	CO-1. To develop skills and competencies in standard
Microbiological	microbiological laboratory techniques
Analysis	CO-2. To gain experience in microbiological laboratory practices
	and skills in the design and execution of microbiology related
	research.
	CO-3. To generate skill of handling different instruments of
	microbiological analysis
	CO-4. To study about various microbial analysis techniques

Semester-IV	
Course	Outcomes After completion of these courses students should be able to;
GEN 401	CO-1. As we aware, the world environmental problems, students
Environmental Studies	should acquaint basic knowledge of environment and its components.
	CO-2. To solve the environmental problems, it is necessary to
	develop and invent new advanced technologies to control environmental pollution
	CO-3. Student will possess the intellectual flexibility necessary to view environmental question from multiple perspectives
	CO-4. To prepare to alter their understanding as they learn new ways of understanding.

FST 402	CO-1. To understand basic quality attributes of foods in raw as
Food Ouality Testing and	well as processed form
Evaluation	CO_2 To learn various systems of objective and subjective
	evaluation and their application in industry
	CO_{2} To goin knowledge shout quantative and qualitative
	CO-5. To gain knowledge about quantative and quantative
	analysis of food
	CO-4. To understand about various instruments that are used for
	quality testing and evaluation.
FST	CO-1. Student will acquire the understanding of the technology
403	for Wheat Milling & Wheat based Food Products.
Technology of	CO-2. Student will acquire the understanding of the technology
cereals, pulses and	for Rice Milling & Rice based other Food Products.
Unsecus	CO-3. Student will be able to understand technology for Milling of
	Corn & Corn based other Food Products along with equipments.
	CO-4. Student will be able to understand technology for Oil Extraction
	& Oil Seed Processing along with equipments.
FST 404	CO-1. To create understanding of quality control and assurance
Food Safety	system in food industry.
	CO-2. To understand the risk assessments procedure for food
	sector.
	CO-3. GMPs and GHP regulations in the food sector.
	CO-4. To understand the different food safety management used
	worldwide.
FST 405	CO-1. Demonstrate appropriate implementation, monitoring
Food Quality Monogoment	and assessment procedures $CO2$: To logra about latest trands and tachniques in food science
wianagement	CO2. To real about fatest trends and techniques in food science $CO3$: To understand the significance of safe processing of foods
	CO4. To understand the role of food standards and regulations in
	maintaining food quality
SIT. 401	CO-1 To learn about various plating techniques of microbial growth
Summer Industrial	CO-2: To understand preservation techniques of culture media
Training	CO-3. Ability to learn about inoculation and incubation practices.

B.Voc Software and Development

Programme Outcomes B.Voc (Software Development)

Programme Outcomes	PO-1 Acquire knowledge about generation of computers and types of
	computers
	PO-2 Student will develop a vocabulary of key terms related to the
	computer and to software program menus
	Course Outcomes
	Semester-I
Paper Code-GEN-	CO-1. To improve the communication skills and soft skills
101	CO-2. To enhance the grammatical concepts and writing or
Paper Name-	formation skills
Communication	
Skills	
Paper Code-GEN-	CO-1.Know about hardware/software methods and tools
102	CO-2.Learn about internet and browsing services available in internet.
Paper Name-	CO-3.Unserstand basic concepts and terminology of information
Fundamentals of	technology
Information	CO-5 Acquire knowledge about generation of computers and types of
Technology	computers
Paper Code-SD 103	CO-1. To develop the logic of the different problems.
Paper Name-	CO-2. To equip students with the basic knowledge of logic
Logic Development	development techniques.
Techniques	CO-3. To enhance the skills of students for software development.
Paper Code-SD 104	CO-1. Student will develop a vocabulary of key terms related to the
Paper Name-	computer and to software program menus
Fundamentals of	CO(2) Student will be able to identify the components of a personal
Information	computer system
Technology2	computer system
	CO- 3. Student will be able to demonstrate mouse and keyboard functions
	CO-4. Student will be able to demonstrate window and menu commands and how they are used

	CO-5. Student will be able to demonstrate how to organize files and documents on a USB/hard drive
Paper Code-SD 105 Paper Name- Internet Application	 CO-1. To familiarize the students with the Fundamentals of Information Technology and its applications. CO- 2. To use computer systems at operating system level and application level. CO-3. To assess the implications for the markets and organizational change of advances in information technologies

Semester-II	
Paper Code-SD	CO-1. Exploring database management skills
108	CO-2. Enhancement of the linking capabilities of database with the
Paper Name-	front end
RDBMS	
Paper Code-SD 109	CO-1.Can opt for the SQL database and placed in the companies for the
Paper Name-	database management
MySQL	
Paper Code-SD 110	CO-1. To develop the logic of the different problems.
Paper Name-C	CO-2.Develop the applications in C
Language	CO-3. To enhance the skills of error checking.
Paper Code-SD 111	CO-1. Carrier in maintenance of PCs and rectifying hardware related
Paper Name-	problems
PC maintenance	CO 2. Student will be able to manage, assemble PCs.
Paper Code-SD 105	CO-1. Students can work in the internet based applications
Paper Name-	CO-2 Develop apps related to cloud, browser and server based
Internet Application	

Semester-III		
Paper Code-GEN	CO-1. The strengthening of respect for human rights and fundamental	
301	freedoms.	
Paper Name- Value	CO-2. The full development of the human personality and the sense of its	
Education and	dignity.	
Human Rights	CO-3The promotion of understanding, respect, gender equality, and	
Human Nignts	friendship among all nations, indigenous peoples and racial, national,	
	ethnic, religious and linguistic groups.	

Paper Code-SD 202 Paper Name- Mathematical Tools for Computer Science	 CO-1. Use set notation, including the notations for subsets, unions, intersections, differences, complements, cross (Cartesian) products, and power sets. CO-2. State the definitions of binary relation, reflexive, symmetric, transitive, equivalence relation, equivalence class, class representative, and partition. CO-3. Perform basic matrix operations including sums, products, and transpose and perform 0-1 matrix operations. CO-4. Apply numerical methods to find our solution of algebraic equations using different methods under different conditions, and numerical solution of system of algebraic equations
Paper Code-SD 203 Paper Name-Object Oriented Programming Using C++	 CO-1. Master using key structured programming constructs: declarations, sequence, selection, repetition, evaluating expressions CO-2. Be familiar with using C++ functions and the concepts related to good modular design. CO-3. Be familiar with using pointers and reference parameters. CO-4. Be familiar with using text file input/output
Paper Code-SD 204 Paper Name- Data Structure using C++	 CO-1.Understand the concept of Dynamic memory management, data types, algorithms, Big O notation. CO-2.Understand basic data structures such as arrays, linked lists, stacks and queues. CO-3.Describe the hash function and concepts of collision and its resolution methods. CO-4.Solve problem involving graphs, trees and heaps
Paper Code-SD 205 Paper Name-Data Communication and networks	 CO-1. Study the basic taxonomy and terminology of the computer networking and enumerate the layers of OSI model and TCP/IP model. CO-2. Acquire knowledge of Application layer and Presentation layer paradigms and protocols. CO-3. Study Session layer design issues, Transport layer services, and protocols. CO-4. Gain core knowledge of Network layer routing protocols and IP addressing.

Semester-IV	
Paper Code-GEN	CO-1.Understand core concepts and methods from ecological and physical
401	sciences and their application in environmental problem-solving.
Paper Name-	CO-2.Understand the transnational character of environmental problems and
Environmental	ways of addressing them, including interactions across local to global scales.
Studies	CO-3. Students can describe the various perspectives that different
	constituencies bring to environmental issues.
Paper Code-SD	CO-1.Understand and analyze theory and implementation of processes
208	resources control physical and virtual memory scheduling I/O and files.
Paper Name-	CO-2.General understanding of structure of modern computers
Operating System	CO-3.Purpose, structure and functions of operating systems

Paper Code-SD 209 Paper Name-Web Programming	CO-1.Apply a structured approach to identifying needs, interests, and functionality of a website. CO-2.Design dynamic websites that meet specified needs and interests. CO-3.Select appropriate HTML, CSS, and JavaScript code from public repositories of open-source and free scripts that enhances the experience of site visitors.
Paper Code-SD 210 Paper Name-Java Programming	CO-1.Designs will demonstrate the use of good object-oriented design principles including encapsulation and information hiding. CO-2.The implementation will demonstrate the use of a variety of basic control structures including selection and repetition; classes and objects in a tiered architecture (user interface, controller, and application logic layers); primitive and reference data types including composition; basic AWT components; file- based I/O; and one-dimensional arrays.
Paper Code-SD 211 Paper Name- Computer Based Accounting	 CO-1.Define and apply management/cost accounting concepts. CO-2.Identify and analyze variances, flexible budges and management control. CO-3.Set-up and maintain Vendors, Customers, Employee Centers, Chart of Accounts, Items, and Payroll Item Lists.

Semester-V	
Paper Code-GEN 501 Paper Name- Critical Thinking and Elementary Statistics	CO-1. Using the Elements of Reasoning and Intellectual Standards to create critical thinking lessons in your subject area.CO-2.Designing instruction that fosters explicit critical thinking.CO-3.Using the Elements of Reasoning and Intellectual Standards to think through intellectual, academic, personal, social, and political problems.CO-4.Providing your students with the intellectual tools they need to engage in fair-minded critical reasoning.
Paper Code-SD 302 Paper Name- Software Engineering and Quality Assurance	CO-1 To present in detail the steps for the software development.CO-2To presents the students various testing strategies for the software.CO-3 TO inculcate the designing process with various models.
Paper Code-SD 303 Paper Name- Computer Graphics And Multimedia Applications	CO-1.Critical understanding of the theory of 2D and 3D transformations, projection and viewing CO-2. Ability to find & combine relevant sources and synthesize designs CO-3. Detailed knowledge of the graphics pipeline CO-4. Detailed knowledge of shading and texture mapping algorithms

Paper Code-SD 304 Paper Name-ASP .NET using C#	 CO-1.Gain a thorough understanding of the philosophy and architecture of .NET. CO-2.Acquire a working knowledge of the .NET programming model and .NET Security. CO-3.Learn how to implement database applications using .NET. CO-4.Learn how to debug .NET applications using .NET diagnostic classes and tools.
Paper Code-SD 305 Paper Name-Linux Operating System	CO-1.To familiarize the students with the Operating System. CO-2.To demonstrate the process, memory, file and directory management issues under the UNIX/ LINUX operating system CO-3.To introduce LINUX basic commands CO-4.To make students how to make simple programs in LINUX and administrative task of LINUX

	Semester-VI	
Paper Code-GEN	CO-1.research and evaluate the personal attributes and skills that	
601	characterizethe"successful"entrepreneur.	
Paper Name-	CO-2.compare their personal characteristics and interests to that of the	
Entrepreneurship	"successful"entrepreneur.	
Development	CO-3.identify and assess sources of support for small businesses and	
Programme	entrepreneurs.	
	CO-4.research and explain issues relevant to entrepreneurs such as "green"	
	business practices, environmental sustainability, social entrepreneurship,	
	and intellectual property.	
Paper Code- SD 308	CO-1.Understand e-Commerce and e-Business and their types.	
Paper Name-E-	CO-2.Understand some innovative e-Business systems: e-Leaning, e-	
Commerce	Government, e-Tourismetc.	
	CO-4 Discuss and work in a group in order to design a new online	
	business idea.	
Paper Code- SD 309	CO-1.Describe and evaluate the impact of the implementation of new	
Paper Name-	software, hardware, and networking technologies.	
Emerging	CO-2. Research, summarize, and present trends that will have an effect on	
Technologies	the computer industry.	
in Computing	CO-3. Investigate, test, and consider the use and cost effectiveness of	
in Computing	software and/or hardware in the business environment.	
Paper Code- SD 310	CO-1.Define 'operations' and 'operations management'.	
Paper Name-	CO-2.Identify the roles and responsibilities of operations managers in different	
Network	organisational contexts.	
Management	processes and outputs of an organization	
	CO-4.Identify operational and administrative processes.	

Paper Code- SD 311	CO-1.discuss the concepts of PHP and its advantages over other languages
Paper Name-PHP	CO-2.use HTML form elements that work with any server-side language
Programming	CO-3.create, back up and restore a MySQL database CO-4.perform various MySQL database queries

Medical Lab Technology

Programme Outcomes: Advanced diploma in MLT

Department of Medical	After successful completion of two years diploma program in
Lab Technology	Medical Lab technology a student should be able to;
Programme outcomes	 PO-1. Achieve skills that are necessary for them to function as part of the healthcare team. PO-2. Recognize the responsibilities of laboratory and health care personnel and interaction with respect for their jobs and patient care. PO-3. Prepare students to compete national certification examination PO-4. Develop skills from basic to more complex laboratory Diagnostics PO-5.Make students competitive for jobs in clinical labs and hospitals
Programme Specific outcomes	
Programme specific	PSO-1. Achieve competency in urinalysis, hematology, clinical
outcomes	chemistry, immune-hematology, microbiology and serology.
	PSO-2. Understand and apply Lab safety measures and ethics.
	PSO-3. Understand working of lab equipments and procedures.
Cours	se Outcomes Advanced Diploma in MLT
	Semester-I
Paper I	CO-1. Student will be able to understand anatomy of human body
Basics of anatomy	CO-2. Differentiate the cells and organs of human body
	CO-3. Understand structures of bones and muscles.
Paper II	CO-1. Prepare laboratory reagents.
Biocemistry	CO-2. Understand composition and function of blood.
	CO-3. Recognize lab ethics, responsibility and safety measures. CO-4 Calibrate volumetric apparatus
	·

Paper III	CO-1. Understand haematology and laboratory organization.
Haematology	CO-2. Lab safety measures and Instrumentation
	CO-3. Know Physiological variations in HB, PCV, TLC and
	platelets.
	CO-4Quality assurance in hematology.
Paper IV	CO-1. know Safety measures and precautions in microbiology
Microbiology	CO-2. Operate procedure of sterilization
	CO-3. Decontaminate and dispose the contaminated material.
	CO-4 knows basis instruments of microbiology.
Paper V	CO-1. Collect & preserve blood for various hematological
Histotechnology	investigations.
	CO-2. Prepare of blood smear.
	CO-3. Total leukocyte count and Differential leukocyte count.
	Lab safety and laboratory organization Lab safety and
	Somestor H
	Semester-II
Paper I	CO-1. Understand structure and functions of organ.
basics of physiology	CO-2. Know ABO Blood grouping, Bleeding time.
	CO-3. Measure clotting time, Blood Pressure.
	CO-4. Differences on physiology of organs.
Paper II	CO-1. Collect and record biological specimens.
Biochemistry	CO-2. Analyze urine (qualitative) for physical and chemical
	constituents
	CO-3. Estimate essential electrolytes in blood.
	CO-4 Assay procedures for biological material and
	estimation of kidney function test.
Paper III	CO-1. Understand methods of estimation of Hb, errors involved and
Haematology	standardization of instrument for adaptation for Hb estimation.
	CO_2 . Preparation and staming procedures of blood smears.
	acid and base solutions
Paner IV	CO-1 Operate laboratory instruments and safety precautions
Microbiology	CO-2. Perform macroscopic examination of adult worms cysts
microniology	tissues and processing of stool sample for routine
	examination.
	CO-3. Prepare slides of protozoal cysts and trophozoites.
	CO-4. Examination and identification of ova and cyst of parasites
	of medical importance
Paper V	CO-1. Understand day to day load together with the employed
Internship for one	technicians under supervision by the technology
month	teachers/faculty members/resident doctors.
	Semester-III
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Paper I	CO-1. Understand functions of endocrine glands through permanent
Basics of physiology	slides
	CO-2. Understand functions of organs.
	CO-3. Differentiate between organ systems.
Paper II	CO-1. Able to collect, handle and examine specimens
Biochemistry	CO-2. Handle techniques of colorimetry, spectroscopy.
	CO-3. Screen and perform coagulation procedures.
	CO-4 Perform quantitative assay of coagulation factors.
Paper III	CO-1. Understand methods of estimation of Hb, errors involved and
Haematology	standardization of instrument for adaptation for Hb estimation.
	CO-2. Preparation and staining procedures of blood smears.
	CO-3. Able to perform volumetric analysis-Preparation of
	Standard acid and base solutions
Paper IV	CO-1. Handle staining procedures, preparation of the stains
Histology	and demonstration of viral inclusion bodies.
	CO-2. Prepare reagents for serological tests.
	CO-3. Perform viral haemagglutination and
	Haemagglutination inhibition test.
	CO- 4. Demonstration of Haemadsorption test, IHA, and RPHA
	tests.
Paper V	CO-1. Operate laboratory instruments and safety precautions.
Microbiology	CO-2. Perform macroscopic examination of adult worms, cysts,
	tissues and processing of stool sample for routine
	examination.
	CO-3. Prepare slides of protozoal cysts and trophozoites.
	CO-4. Examination and identification of ova and cyst of
	parasites of medical importance
	Semester-IV
Paper I	CO-1. Perform aerobic and anaerobic culture methods.
Microbiology	CO-2. Understand mode of action of antibiotics and
	chemotherapeutic agents for bacteria and fungi.
	CO-3. Acquaint with laboratory organization, management,
	recording of results and quality control in microbiology.
	CO-4 Collection, transportation and processing of clinical
	samples for microbiology investigations
Paper II	CO-1. Understand microscopy, working principle, maintenance and
Fundamentals of	applications of various types of microscopes.
applied histology	CO-2. Demonstrate and identify the minerals and pigments
	CO-3. Stain cells for microscopic examinations.
Paper III	CO-1. Handle operating System Introduction to computer Operating
Computer skill	System.
	CO-2. Understand windows structures, its use and application
	CO-3. Prepare spread sheet for simple data and numeric operations
	making tables, sorting and querving.

Paper IV	CO-1. Understand essentials of good communication and methods of
Communcation skill	communication, oral, written and non-verbal
	CO-2. Write technical report using the given outlines.
	CO-3. Prepare report, notices, agenda notes, business
	correspondence preparation of summery & prices.
Paper V	CO-1. Understand day to day load together with the employed
One month internship	technicians under supervision by the technology
in a reputed lab	teachers/faculty members/resident doctors.

Fashion Designing and Clothing Construction

Programme Outcomes: Advance Diploma in Fashion Designing and Clothing Construction

Department of	After successful completion of three year degree program in (CC-ADFD)
Fashion designing	a student should be able to;
Programme	PO-1. Students understand basic garment construction techniques, sewing
Outcomes	knowledge, and skill development in the field of fashion design.
	PO2-Students have deep knowledge of design, arts and
	Elements of design.
	PO3-Students develop skills of sketching, pattern making and garment
	construction.
	PO4- Students understand the knowledge about computer aided designing.
	PO5- students can be able to manage events like fashion shows, workshops
	and exhibitions.
	Programme Specific outcomes
Programme	PSO-1. PSO1-Students can be designer in fashion industries.
Specific Outcomes	PSO2-students can be placed as a merchandiser in garment industries.
	PSO3- students can be served as a instructor of computer aided designing.
	PSO4-self employment as an entrepreneur is possible.
	Course Outcomes CC-ADFD Somostor I
	<u>Semester-1</u>
Course Outcomes	After completion of these courses students should be able to;
BASIC GARMENT	CO-1. Students learn machines and tools used for sewing.
CONSTRUCTION	CO-2. Students learn knowledge of different garment components.
	CO-3. They learn various basic hand stitches, seams and seam finishes,
	different fullness treatments
	CO-4 They learn various construction techniques.
OFWING	
SEWING	CO-1. students can able to understand various Sewing tools.
TECHNOLOGY	CO-2. Students can gain knowledge about different types of machine,
	threads and needles.
PATTERN	CO-1. They can gain knowledge of different aspects of Pattern Making
MAKING-I	such as drafting draping and good fitting
	such as aratime, araping and good mang.

FASHION	CO-1. Students can be to understand knowledge of figure sketching and
SKETCHING	fleshing
	CO-2. Rendering of textures
	CO-3. Sketching and illustration of figure.

<u>Semester-II</u>	
GARMENT FINISHING	CO-1. students can understand various types of finishing.
	CO-2. Students can understand various types of miniming processing.
FIBRE TO FABRIC	CO-1. They can gain knowledge of fibers, sources of fibers and their properties
	CO-2. Students can able to understand manufacturing process of textiles
	fibers.
	CO-3. To help the students to identify various classes of textiles fibers.
DESIGNING &	CO-1. They acquire knowledge of various types of baby garment.
MANUFACTRING	CO-2. They learn various baby garments construction techniques.
CHILDREN	
APPAREL	
COMPUTER	CO-1. They can gain basic computer knowledge to students.
APPLICATION	CO-2. Students are able to understand concept of fundamentals and its
	applications in computer.

<u>Semester-III</u>	
HISTORIC COSTUMES AND TEXTILES	CO-1. To acquaint the students with different types of Ancient costumes.
CAD IN TEXTILEAND FASHION	CO-1. To acquaint students with knowledge of CAD based application in fashion designing.
DESIGNING & MANUFACTRING WOMWN APPAREL	CO-1. They acquire knowledge of various types of women garment. CO-2. They learn various women garments construction techniques.
Semester-IV	
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APPAREL QUALITY ASSURANCE	CO-1. They learn about quality consciousness and awareness of quality parameters required for apparel quality products.
FASHION MARKETING AND MERCHANDISING	 CO-1. students can gain knowledge of marketing and its environment CO-2. They can be able to understand the importance of fashion forecasting. CO-3. They can acquire knowledge about various brands of apparel and accessories CO-4 Student can gain knowledge about various display materials and installations and different kind of storage displays
LINE DEVELOPMENT & PORTFOLIO-I	 CO-1. students can be to apply the principles and knowledge of garment design development to create a collection CO-2. They can understand the meaning and importance of making a good portfolio CO-3. Identify, organize, and gather documentation to build portfolios

Certificate Courses

Certificate Course in Dress Designing and Tailoring

0		
Certificate in dress	After successful completion of certificate course in dress designing	
designing and	and tailoring) a student should be able to;	
tailoring		
Programme	PO-1. Students understand basic garment construction techniques,	
Outcomes	sewing knowledge, and skill development in the field of	
	fashion design.	
	PO2- students can be able to manage events like workshops and exhibitions.	
	Programme Specific Outcomes	
Programme	PSO-1. PSO1-Students can be boutique worker.	
Specific Outcomes	PSO4-Self employment as an entrepreneur is possible.	
Course Outcomes		
Course Outcomes	After completion of these courses students should be able to;	
BASIC GARMENT	CO-1. Students learn machines and tools used for sewing.	
CONSTRUCTION	CO-2. Students learn knowledge of different garment	
	components.	
	CO-3. They learn various basic hand stitches, seams and seam	
	finishes, different fullness treatments	
	CO-4 They learn various construction techniques of garments.	

Programme Outcomes: Certificate Course in Dress Designing and Tailoring

Certificate Course in Website Designing

	voicomes, ceranicate course in veosite Designing
Certificate Course in	After successful completion of six months certificate course in
Website Designing	Website Designing a student should be able to;
Program Outcomes	PO-1. Understand the principles of creating an effective web page, including an in-depth consideration of information architecture.
	PO-2. Become familiar with graphic design principles that relate to web design and learn how to implement theories into practice.PO-3. Develop skills in analyzing the usability of a web site.PO-4. Understand how to plan and conduct user research related to web usability.
	Programme Specific Outcomes
Programme Specific Outcomes	PSO-1 Students will utilize coding and software tools to analyze and present data in a professional manner that could be translated to web-based or app-based media.PSO-2 Effectively integrates IT-based solutions into the user environment.
	PSO-2 Students will develop and understanding of information design and usability as it applies to interactive media projects.
	PSO-3 A series of tasks (website evaluation, website development, reflective report, collaborative website development, website self-assessment), as well as several group activities (discussions, online resource sharing, collaborative work) will help to gain practical experience on web development and a thorough understanding of web design issues.
	Course Outcomes
	Certificate Course in website designing
Paper Name: PROGRAMMING IN HTML/DHTML	 Insert a graphic within a web page. Create a link within a web page. Create a table within a web page. Insert heading levels within a web page. Insert ordered and unordered lists within a web page. Use cascading style sheets. Create a web page. Validate a web page. Publish a web page

Paper Name:	• Develop interactive web applications through coding using
	HTML, CSS and Remember client-Side Programming,
PROGRAMMING IN	Server-Side Programming, Active Server Pages, Database
JavaScript/VBScript	Connectivity to web applications
	• Understand VB Script language programming constructs.
	• Gain knowledge of JavaScript language programming
	constructs.
	• Develop a dynamic web page using client side and server side
	scripting languages.
	• Apply role of languages like HTML, JavaScript, VBScript,
	ASP and protocols in the workings of the web and web
	application
	• Analyze a web project and identify its elements and attributes
	in comparison to traditional projects and build customize web
	sites and web applications

Certificate Course in Food Processing and Preservation

r rogramme outcomes: roou	Trocessing and Treservation
Certificate course in Food Processing And	After successful completion of six program
Preservation	in Add-on Course
	(FPP) a student should be able to:
	(111) a stadent should be able to,
	DO 1. Students un denstan d'the massent status
D.	PO-1. Students understand the present status
Programme	of Food processing industry globally and in
Outcomes	India.
	PO2-Students have deep knowledge of food
	preservation significance and need.
Programme Sp	ecific Outcomes
Programme	PO-1. Students can determine proximate
Specific Outcomes	composition of various food physio-
Specific Outcomes	chamical properties of food and also proper
	unious food and dusts such as sou as Sough
	various lood products such as sau.ce, Squash,
	Jam, Bread, Biscuit etc
	PO2-students can work in food industries.
	PO3- Students can choose teaching
	profession
	PO5-self employment as an entrepreneur is
	possible
	pobbiole:
Course	Jutcomes
Course (Food Preservation (Theory)	Dutcomes
Course (Food Preservation (Theory)	Dutcomes CO-1: Students will understand the present status of Food processing Industry scenario
Course (Food Preservation (Theory)	Dutcomes CO-1: Students will understand the present status of Food processing Industry scenario.
Course (Food Preservation (Theory)	Dutcomes CO-1: Students will understand the present status of Food processing Industry scenario. CO2-Students will have deep knowledge of
Course (Food Preservation (Theory)	Dutcomes CO-1: Students will understand the present status of Food processing Industry scenario. CO2-Students will have deep knowledge of food preservation significance and need.
Course (Food Preservation (Theory)	DutcomesCO-1: Students will understand the present status of Food processing Industry scenario.CO2-Students will have deep knowledge of food preservation significance and need.PO3-Students develop skills of importance
Course (Food Preservation (Theory)	Outcomes CO-1: Students will understand the present status of Food processing Industry scenario. CO2-Students will have deep knowledge of food preservation significance and need. PO3-Students develop skills of importance of food in diet and various sources of plant
Course (Food Preservation (Theory)	Outcomes CO-1: Students will understand the present status of Food processing Industry scenario. CO2-Students will have deep knowledge of food preservation significance and need. PO3-Students develop skills of importance of food in diet and various sources of plant and animal food in India.
Course (Food Preservation (Theory)	CO-1: Students will understand the present status of Food processing Industry scenario. CO2-Students will have deep knowledge of food preservation significance and need. PO3-Students develop skills of importance of food in diet and various sources of plant and animal food in India.
Course (Food Preservation (Theory) Practical	DutcomesCO-1: Students will understand the present status of Food processing Industry scenario. CO2-Students will have deep knowledge of food preservation significance and need. PO3-Students develop skills of importance of food in diet and various sources of plant and animal food in India.CO-1: Students can determine proximate
Course (Food Preservation (Theory) Practical	DutcomesCO-1: Students will understand the present status of Food processing Industry scenario. CO2-Students will have deep knowledge of food preservation significance and need. PO3-Students develop skills of importance of food in diet and various sources of plant and animal food in India.CO-1: Students can determine proximate composition of various food such as
Course (Food Preservation (Theory) Practical	DutcomesCO-1: Students will understand the present status of Food processing Industry scenario. CO2-Students will have deep knowledge of food preservation significance and need. PO3-Students develop skills of importance of food in diet and various sources of plant and animal food in India.CO-1: Students can determine proximate composition of various food such as Moisture content. Carbohydrate and Sugars.
Course (Food Preservation (Theory) Practical	CO-1: Students will understand the present status of Food processing Industry scenario. CO2-Students will have deep knowledge of food preservation significance and need. PO3-Students develop skills of importance of food in diet and various sources of plant and animal food in India. CO-1: Students can determine proximate composition of various food such as Moisture content, Carbohydrate and Sugars, Protein Eat and Ash
Course (Food Preservation (Theory) Practical	DutcomesCO-1: Students will understand the present status of Food processing Industry scenario.CO2-Students will have deep knowledge of food preservation significance and need.PO3-Students develop skills of importance of food in diet and various sources of plant and animal food in India.CO-1: Students can determine proximate composition of various food such as Moisture content, Carbohydrate and Sugars, Protein,, Fat and Ash CO 2: Students will study physic chemical
Course (Food Preservation (Theory) Practical	DutcomesCO-1: Students will understand the present status of Food processing Industry scenario. CO2-Students will have deep knowledge of food preservation significance and need. PO3-Students develop skills of importance of food in diet and various sources of plant and animal food in India.CO-1: Students can determine proximate composition of various food such as Moisture content, Carbohydrate and Sugars, Protein,, Fat and Ash CO-2: Students will study physio-chemical protein of food and such as will study physio-chemical
Course (Food Preservation (Theory) Practical	DutcomesCO-1: Students will understand the present status of Food processing Industry scenario. CO2-Students will have deep knowledge of food preservation significance and need. PO3-Students develop skills of importance of food in diet and various sources of plant and animal food in India.CO-1: Students can determine proximate composition of various food such as Moisture content, Carbohydrate and Sugars, Protein,, Fat and Ash CO-2: Students will study physio-chemical properties of food such as pH, acidity, total
Course (Food Preservation (Theory) Practical	DutcomesCO-1: Students will understand the present status of Food processing Industry scenario. CO2-Students will have deep knowledge of food preservation significance and need. PO3-Students develop skills of importance of food in diet and various sources of plant and animal food in India.CO-1: Students can determine proximate composition of various food such as Moisture content, Carbohydrate and Sugars, Protein,, Fat and Ash CO-2: Students will study physio-chemical properties of food such as pH, acidity, total solids and soluble solids.
Course (Food Preservation (Theory) Practical	DutcomesCO-1: Students will understand the present status of Food processing Industry scenario. CO2-Students will have deep knowledge of food preservation significance and need. PO3-Students develop skills of importance of food in diet and various sources of plant and animal food in India.CO-1: Students can determine proximate
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Programme outcomes: Food Processing and Preservation

Certificate Course in Mushroom Cultivation

Programme outcomes: Certificate course in Mushroom Cultivation

Certificate course	After successful completion of six months certificate in mushroom
in Mushroom	cultivation a student should be able to;
Cultivation	
Program	PO-1. Achieve skills that are necessary for them to become self-
outcomes	reliable and self- employed farmer with small land holdings.
Programme specific outcomes	
Programme	PSO-1. Understand basic technique and procedure of mushroom
specific outcomes	cultivation.
	PSO-2. Provide raw material in form of compost and spawn to other
	mushroom grower to generate extra income.
	Course outcomes
MC-1: Mushroom	CO-1. To understand mushroom morphology and nutritional
Cultivation	requirements.
	CO-2. To study mushroom cultivation system and farm design
	CO-3. To prepare compost by different methods,
	CO-4. To know harvesting methods, packaging and post harvest
	technology
	CO-5. To understand disease control and pest management for
	mushroom cultivation.
MC-2: Field Visit	CO-1. Field Visit & Interaction with Mushroom cultivators and other
	Support Agencies to gain real time exposure for large scale
	production of mushroom.

Certificate Course in Yoga and Mental Health

Department of	After successful completion of six months certificate course in yog
Physical Education	and mental health a student should be able to;
Programme Outcomes	 To acquaint students with the eternal values of Indian culture as lived and propagated by exemplary personalities like Swami Vivekananda ar some other modern Indian sages such as Sri Ramakrishna, Ma Sarada, Shri Aurobindo and Shri Ramana Maharishi. To highlight the significance of our traditional values for generating peace, universal love, acceptance, tolerance and harmony in our real life To sensitize students to the values of service, sacrifice, self control, selflessness and moral courage and highlight the significance of character building and spirituality in their self development. To awaken the inherent spiritual strengths through yogic asans, pranayam and meditation. Through the course students are expected to understand and become more aware about self and the environment. For developing self-observation, body awareness, self-study, self- discipline and to develop positive attitude. To increase flexibility, elasticity, calmness and strength. To develop attention and concentration. To learn autonomic control through passive attention. To create an overall state of Homeostasis and Mental well being.
	Programme Specific Outcomes
	• Creating a healthy and peaceful society by assimilating these
Programme Specific Outcomes	 practices in daily life. Harmonizing inner and outer self to create integrated personalities Harmonizing self with natural and social environment Giving direction to youth by imparting value based education Preparing students for corporate life.

Department of Add on Courses

Programme Outcomes: Add-on Course (Fashion Designing)

Fashion designing	After successful completion of three year degree program in Add-on Course (FD) a student should be able to;	
Programme Outcomes	 PO-1. Students understand textile science, garment details, skill development in the field of fashion design. PO2-Students have deep knowledge of design, arts and Elements of design. PO3-Students develop skills of sketching, pattern making and garment construction. PO4- Students understand the various department of apparel manufacturing technology. 	
	Programme Specific Outcomes	
Programme	PO-1. Students can be designer in fashion industries.	
Specific Outcomes	PO2-students can work in garment industries.	
	PO3- Students can choose teaching profession PO5-	
	self employment as an entrepreneur is possible.	
Course Outcomes Add on course (FD)		
	Certificate course	
Course	Outcomes After completion of these courses students should be able to;	
FUNDAMENTALS	CO-1, students understand tools used in garment construction and	
OF CLOTHING	Correct body measurements	
	CO-2. They understand garment construction techniques	
	CO-3. students understand traditional Embroideries of India	

FABRIC STUDY	CO-1 they can get knowledge about fibers and their properties and
AND DESIGN	yarn size and properties.
CONCEPT	CO-2 They can understand principles and elements of and different
	dyes and printing techniques
BASIC	CO-1 they can get knowledge about Various seams and seams finishes
CONSTRUCTION	CO-2 students can learn about fancy and traditional embroidery stitches.
TECHNIQUES	
AND SKETCHING	
	Diploma Course
TEXTILE AND	CO-1 They can get knowledge about different types of Traditional Indian
	CO 2 Students can learn about. Indian and Wastern costumes
AFFRECIATION	CO-2 Students can learn about mutan and western costumes
PATTERN	CO-1 They can get knowledge about Tools and terminology used in
MAKING AND	Pattern making
ADVANCE	CO-2 Students can learn about commercial Paper Pattern, handling of Special
CONSTRUCTION	fabrics and figure defects and their remedies
TECHNIQUES	
	Advanced Diploma Course
FASHION	CO-1 students can learn about Indian and western designers
DESIGINING AND	CO-2 they can get knowledge about sourcing and sales promotion
MERCHANDISING	Techniques
APPAREL	
INDUSTRY AND	CO-1 Students can learn about Entrepreneurship
ENTREPRENEURS	CO-2 They can get knowledge about quality control, labeling and
HIP	packaging, main contars of trade
DEVELOPMENT	main centers of trade
FASHION	
DESIGNING AND	CO-1 Students can learn about drafting and construction techniques, Draping
ADVANCE	techniques, Fashion illustrations, computer aided designing.
CONSTRUCTION	
TECHNIQUES	

Programme Outcomes Add on Course Journalism

Department of	After successful completion of three year dual degree program in journalism
Journalism	a student should be able to;
Programme	PO_{-1} To Enhance the knowledge about the role of newspapers in society
Outcomes	and understanding its critical role in various aspects. Students develop critical understanding about the public service role of a newspaper. Media Watch, national and international newspapers, has been subscribed to help the students inculcate the habit of reading research oriented material on the subject. Regular group discussions and other class activities help in better understanding.
	PO-2. To Understand what news is all about and have an insight into the working of various news persons. This helps the students to have a clear idea about the functioning of a newspaper organization
	PO-3. To learn about various types of writing for newspapers and magazines.
	PO-4 Core knowledge about media law, economy and polity which helps the students to understand crucial aspects related to working on the field as journalists.
	Programme Specific Outcomes
Programme	PSO-1. Develop communicative and reading skills
Specific Outcomes	
	PSO-2. Acquire the skill set to be as PRO, lecturer, journalist, reporter,
	editor, translator & news reader in media
	PSO-3. Higher Studies can be continued in Journalism
	PSO-4. Analyzing the work of various news persons, their qualities.
	duties and the professional requirements.
	PSO-5. Gain practical knowledge through assignments
	Course Outcomes (Add on journalism)
	× v /
	Certificate course
Course	Outcomes After completion of certificate course students should be able to;

(Paper A	CO-1. To introduce the students to the profession of journalism
Theory)	CO-2. Defining News and understanding its elements, news sources and different types of news CO-3. Describing page make-up, typography, main type groups with recent
	CO-4. To enable students to understand different forms of journalistic Writing CO-5. To enable students to understand newspaper organization structure and editorial department
Paper-B	CO-1. Field visit and report of media organization
(Practical)	CO-2. Multimedia presentation on typology of media content
	CO-3. Identifications of different types of sources of news stories
	CO-4. Interview of a media professional

	Diploma Course
Paper A	CO-1. To introduce students to basics of reporting and writing for
(Theory)	print media
	CO-2. To enable the students understand news values and qualities
	of reporters
	CO-3. To provide them basic understanding on various media laws
	and entries $CO(4)$ Analyzing headlines of news stories and the different types of
	co-4. Analyzing headlines of news stories and the different types of
	CO-5 Describing the principles of editing convitesting processing copies
	and computer editing
Paper B	CO-1. Journalistic writing exercises
(Practical)	CO-2. Editing exercises
	CO-3.Multimedia presentation on ethical/legal violation by media
	Advanced Diploma Course
Paper A	CO-1. To train the students in designing media content and to
(Theory)	introduce them to specialized journalism
	CO-2. To provide students an understanding of the importance of public opinion and role of journalism in framing it
	CO-3. To help students understand the history and basics of online
	media
	CO-4. To introduce students to development issues in India and coverage
	of media on these
	issues.
	CO-5. To inculcate the idea of social responsibility and create awareness of
	state and central government welfare measures
Paper B	CO-1. Design a newspaper mock-up/magazine cover/Radio/TV news
(Practical)	package
	CO-2. Exercise in news writing using CAR
	CO-3.Case study of IEC campaign/Pressure Group

Add On Course in Communicative English

Programme Outcomes:

After the award of an Advanced Diploma Certificate in Communicative English, a learner would be :

- Skilled in the use of the four skills of the language,
- Familiar with the basics of radio, TV and print journalism,
- Familiar with the various methods of business communication,
- To get some employment on the basis of the skill acquired .

Course Specific Outcomes:

Certificate Course:

- Familiarity with the functioning of English English sounds through listening in the Language Lab.
- Accuracy in oral production by the use of the pronunciation dictionary. An optimum level of intelligibility and fluency in speech.
- o Ability of communication in the spoken mode with accuracy and fluency for various
- \circ functions.
- Enhanced ability of communication in the written mode with accuracy and fluency Trained use of specific formats of written discourse
- Knowledge of the fundaments of study skills
- Familiarity with the study skills to collect, classify & retrieve information from different sources and to record and store

Diploma Course:

- Acquaintance with the different mechanisms of radio broadcast. Script writing for different genres of Radio broadcast.
- Acquaintance them with the elements of voice Identification and overcoming speech problems
- Acquaintance with the lay-out, equipment and functioning of a T.V. station Scriptwriting for different genres of T.V. Broadcast.
- Sensitization to body movements, demeanor and gestures involved in T.V.
 presentation. Practice in previously covered features of broadcast presentation.
- Familiarity with different genres of T.V. production

Advanced Diploma:

- Awareness of issues deserving reporting in print
- Familiarity with different aspects of print journalism, its formats, its avenues. Writing news stories from the stage of news gathering to editing to their final
- presentation.
- Familiarity with the lay-out, equipment and functioning of a newspaper/magazine production centre
- Acquisition of the art and skills of feature writing for freelancing Awareness of the aspects of graphic arts in Print Journalism.
- Language proficiency in Business/work situations particularly in spoken interaction
- Awareness of the special features of format and style of informal communication through various modes.
- Techniques of written communication in business situations.
- Expanded vocabulary and developed reading comprehension of material related to business.

ADD-ON IT	After successful completion of one year certificate course in ADD-ON a student should be able to;	
Program Outcomes	PO-1. Focus on the learning resulting from the activity rather then on the activity itself.	
	PO-2. Focus on the important aspects of the learning that provide life long learning skills.	
	PO-3. Focus on the skills and abilities central to the discipline and based on professional standards of excellence.	
	PO-4. Capturing important learning skills specific enough to be measurable	
Programme Specific Outcomes		
Programme Specific Outcomes	PSO-1 Use and apply current technical concepts and practices in the core Information Technologies of human computer interaction, information Management, programming, networking.	
	PSO-2 Effectively integrates IT-based solutions into the user environment.	

Programme Outcomes: Ad on Information Technology

	PSO-3 The ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for officient analysis and design of computer based systems of		
	varying complexity.		
Course Outcomes			
Certificate Course			
Paper Name: Fundamental of Information Technology	 Student will develop a vocabulary of key terms related to the computer and to software program menus Student will be able to identify the components of a personal computer system Student will be able to demonstrate mouse and keyboard functions Student will be able to demonstrate window and menu commands and how they are used Student will be able to demonstrate how to organize files and documents on a USB/hard drive Student will be able to send email messages (with or without attachments) Student will be able to navigate and search through the internet 		
Paper Name-			
Practical	 To make the student learn a programming language. To learn problem solving techniques. To teach the student to write programs in C and to solve the problems. Read, understand and trace the execution of programs written in C language. Write the C code for a given algorithm. Implement Programs with pointers and arrays, perform pointer arithmetic, and use the pre-processor. Write programs that perform operations using derived data types. 		

Paper Name-C Programming Language	 Students learn how build an algorithm for problems Students learn basics of logic development using C-language Enable students to create pictorial representations of the program Enhance students programming concepts Students learn basics of file handling.
Paper Name- Object Oriented Programming Using C++	 Describe the important concepts of object oriented programming like object and class, Encapsulation, inheritance and polymorphism. Write the skeleton of C++ program. Write the simple C++ programs using the variables, operators, control structures, functions and I/O objects cin and cout. Write the simple object oriented programs in C++ using objects and classes. Use features of C++ like type conversion, inheritance, polymorphism, I/O streams and files to develop programs for real life problems. Use advance features like temples and exception to make programs supporting reusability and sophistication. Use standard template library for faster development. Develop the applications using object oriented programming with C++.
Paper Name- Computer Networks and Internet Programming	 Have a good understanding of the OSI Reference Model and in particular have a good knowledge of Layers Analyze the requirements for a given organizational structure and select the most appropriate networking architecture and technologies; Have a basic knowledge of the use of cryptography and network security; Specify and identify deficiencies in existing protocols, and then go onto formulate new and better protocols; Have an understanding of the issues surrounding Mobile and Wireless Networks. Implement interactive web page(s) using HTML, CSS Design a responsive web site Demonstrate Rich Internet Application. Build Dynamic web site using server side Database connectivity. Describe and differentiate different Web Extensions and Web Services.

	• Understand the syntax and semantics of the C++ programming	
Paper Name-	o language.	
practical	• Write inline functions for efficiency and performance.	
	\circ Create C++ classes for code reuse.	
	• Implement copy constructors and class member functions.	
	• Understand the concept of data abstraction and encapsulation.	
	• Learn how to overload functions and operators in C++.	
	• Learn how inheritance and virtual functions implement dynamic	
	 binding with polymorphism. 	
	• Design and implement generic classes with C++ templates.	
	• Learn how to Implement SDL graphic libraries to develop a GUI	
	 based programs. 	
	• Boost your hire ability through innovative and independent learning	
Advance Diploma Course		

Programming	 The key goal is to prepare students for a professional career in the field of data administration and database design. To get acquaint students with good knowledge of DBMS. During the course, students will learn about database design and database handling activities. Learn how to identify an organization's information processing requirements. Learn how to develop a detailed specification for an information system that can fulfill these requirements. Understand that the successful systems analyst needs to have a broad understanding of organizational operations, and business processes. Design/develop programs with GUI interfaces Code programs and develop interface using Visual Basic.Net Perform tests, resolve defects, and revise existing code
Paper Name- Linux System	 To familiarize the students with the Operating System To demonstrate the process, memory, file and directory management issues under the UNIX/ LINUX operating system To introduce LINUX basic commands To make students how to make simple programs in LINUX.