ELECTRONICS DEPARTMENT				
Program	CourseCode	CourseName	COCode	со
			C01	Aptitude to apply Logic thinking and Basic Science knowledge for problem solving in various fields of electronics both in industries and research
			CO2	To acquire experimental skills, analysing the results and interpret data.
B.Sc(Electronics) 1st Sem(NEP)	ELE-CT1	Electronic Devices and Circuits	CO3	Ability to design / develop / manage / operation and maintenance of sophisticated electronic gadgets / systems / processes that conforms to a given specification within ethical and economic constraints.
			CO4	Capacity to identify and implementation of the formulate to solve the electronic related issues and analyze the problems in various sub disciplines of electronics.
			CO5	Capability to understand the working principles of the electronic devices and their applications.
			C01	Aptitude to apply Logic thinking and Basic Science knowledge for problem solving in various fields of electronics both in industries and research
			CO2	To acquire experimental skills, analysing the results and interpret data.
B.Sc(Electronics) 1st Sem(NEP)	ELE-OE 1.5	Digital Fundamentals	C03	Ability to design / develop / manage / operation and maintenance of sophisticated electronic gadgets / systems / processes that conforms to a given specification within ethical and economic constraints.
			CO4	Capacity to identify and implementation of the formulate to solve the electronic related issues and analyze the problems in various sub disciplines of electronics.
			CO5	Capability to develop mobile app.
		2nd Sem(NEP)		
			C01	Understand and study the behaviour of the semiconductor devices ie., V characteristics of various MOSFET devices the knowledge can be extended for understanding the behaviour /characteristics/ response of unknown / novel devices.
			CO2	Applying the standard device models to explain/calculate critical internal parameters of semiconductor devices.
B.Sc(Electronics) 2nd	ELE-CT2	Analog and Digital Electronics	CO3	Understanding and characterizing the behaviour of known/unknown/novel power electronic devices such as UJT, SCR, Diac, Triac etc.
Sem(NEP)		Analog and Digital Electronics	CO4	Acquainting and familiarization of the experimental skills to determine the behaviour of semiconductor devices.
			CO5	Capable of analyzing the device characteristics and responses.
			CO6	Understanding the working of basic logic gates, concepts of Boolean algebra and techniques to reduce/simplify Boolean expressions and their applications.

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			C07	Synthesizing and Analyzing combinatorial and sequential circuits and their applications in electronics
			CO1	Aptitude to apply Logic thinking and Basic Science knowledge for problem solving in various fields of electronics both in industries and research
		CO2	To acquire experimental skills, analysing the results and interpret data.	
B.Sc(Electronics) 2nd Sem(NEP)	ELE-OE 1.5	Digital Systems	CO3	Ability to design / develop / manage / operation and maintenance of sophisticated electronic gadgets / systems / processes that conforms to a given specification within ethical and economic constraints.
			CO4	Capacity to identify and implementation of the formulate to solve the electronic related issues and analyze the problems in various sub disciplines of electronics.
			CO5	Capability to develop mobile app.
		3rd Sem(Non-NEP)		
			CO1	Learn the details of Integrted circuit and operational amplifier
B.Sc(Electronics) 3rd Sem(Non-NEP)	B.Sc(Electronics) 3rd ELE-301T Sem(Non-NEP)	Linera Integrated Circuit and C Programming	CO2	Write down in depth Application of OP-AMP and IC 555 Timer
			CO3	Write down in details with application, if applicable, Introduction to C programming
		4th Sem(Non-NEP)		
		Digital Electronics and Verilog	C01	Understand in details with application, if applicable, Combinational logic circuits
B.Sc(Electronics) 4th Sem(Non-NEP)	ELE-401T		CO2	Write down the details of sequential logic circuits
			CO3	Deliberate the characteristics of Introduction to Verilog
		5th Sem(Non-NEP)		
			C01	Learn in details with examples noise and transmission lines
B.Sc(Electronics) 5th Sem(Non-NEP)	ELE-501T	communication-1	CO2	Write down the characteristics of analog modulation techniques
			CO3	Write down in details with examples radio receivers
				Specify the characteristics of microprocessor and its
			C01	classifications
B.Sc(Electronics) 5th	ELE-601T	Microprocessor and Electronics	CO2	Understand the detailed architecture and pin configuaration of 8085
Sem(Non-NEP)		Instrumentation	CO3	Deliberate the characteristics of instruction set in 8085
			CO4	Understanding the working principles of various Sensors and Biomedical instruments
		6th Sem(Non-NEP)		
			CO1	Deliberate the details of Digital communication
B.Sc(Electronics) 6th	ELE-701T	communication-2	CO2	Specify in details with examples RADAR system
Sem(Non-NEP)			CO3	Understand the classification and characteristics of Satellite communication

			C01	Introduction to Microcontroller, stuctural study of 8051
B.Sc(Electronics) 6th Sem(Non-NEP)	ELE-801T	Microcontrollers	CO2	Addressing mode, Instruction set and Interrupts in 8051
,			CO3	8051 programming in C
				Capability to understand the working principles of thevarious
			CO4	controllers and their applications.

Course Outcomes for Bsc (Bio/Chem/MB) Program BCU Syllabus

I Semester This course introduces the students to the basics of cell and CO1 its components. Describe the fundamental principles cellular biology and CO2 nodel organisms **B.Sc. Genetics** GNT-101 Fundamentals of cell biology Understand how cells grow, divide, and die and how these CO3 mportant processes are regulated Understanding how these cellular components are used to generate and utilize energy in cells CO4 The use of microscope equipment, interpretation and CO5 evaluation of ultrastructural data An overview of the principles of plant genetics including Mendelian, history of genetics and modern concepts of CO1 heredity. The student will demonstrate knowledge of the basics principles of Mendelian genetics pea plant, law of segregation and law of independent assortment CO2 The student will demonstrate deviations from classical Mendelian analysis, multiple analysis, and gene interactions **B.Sc. Genetics** GNT-201 **Principles of Genetics** CO3 Gaining knowledge about the elements of Biometry mean, median, variance chi square student t test, probability and distribution CO4 Understanding the basic concept on sex determinations, Environment, hormone control and sex differentiation in Drosophila and man CO5

			C01	Understand the basic concepts of nucleic acids
B.Sc			CO2	Understand the basic concepts of nucleic acids
(Biotechnology/Chemist BTT401 ry/Microbiology)	Molecular biology	CO3	Understand the gene organization, expression & regulation in Prokaryotes & Eukaryotes	
		CO4	genetic recombination mechanism	
			CO5	Transposable elements & its significance

V Semester

				To understand the concepts of Genetic Engineering and its tools
B.Sc (Biotechnology/Chemist ry/Microbiology)	BTT501	Molecular biology		Apply the basics of In Vitro construction of recombinant DNA molecules and Transformation of r-DNA To remember the basics of Screening and selection of recombinant host cells and apply construction of gene libraries, Molecular
			CO4	Understand Renewable, Non-Renewable resources of energy, Conventional fuels and Modern fuels. Analyse and understand the technology of bioremediation, treatment of municipal waste,industrial effluents, biofertilizers and bioleaching

B.Sc (Biotechnology/Chemist ry/Microbiology)	BTT502	Immunology & Animal Biotechnology		Understand the details of immunology
			CO2	Learn the details of animal biotechnology
B.Sc		Genetic Engineering & Environ	CO1	Deliberate in depth calculation of income tax

(Biotechnology/Chemist BTP503 rv/Microbiology)	Biotechnology	CO2	Specify the details of genetic engg
Ty/Microbiology)		02	specify the details of genetic engg

			C01	To study the history of Immunology, types of immunity, interaction of Ag-Ab and hypersensitivity reactions
			CO2	Types of Vaccination and immunization
B.Sc (Biotechnology/Chemist ry/Microbiology)	BTP504	Immunology & Animal Biotechnology		To understand the scope of animal cell culture and different methods employed in culture of animal cells
				To learn the expression of cloned proteins in animal cells and methods of growth factors, antibodies and vaccines production
				To understand the different techniques in transgenic animal production

B.Sc			C01	Learn in details with application, if applicable, To know the concepts of industrial Biotechnology and fermentation technology
		CO2	Specify the classification and characteristics of To remember the basics of Screening, Isolation, maintenance of strains and Types of fermentation and fermenters	
(Biotechnology/Chemist ry/Microbiology)	(Biotechnology/Chemist BTT602 ry/Microbiology)	Industrial Biotechnology	CO3	Apply the basics of Process Development and Production of Microbial products
		CO4	Apply Enzyme Biotechnology and analyse Fermented foods	
			CO5	Understand the technique of mass culture and apply culture methods for Algae and microbial polysaccharides

			C01	To understand the basics of various invitro methods in plant biotechnology
B.Sc (Biotechnology/Chemistr BTP603 y/Microbiology)	Plant Biotechnology	CO2	To learn the tranformation techniques involved in transgenic plant production	
		CO3	Developing concepts in Biotechnology and Intellectual Property Rights (IPR)	
			CO3	Production of edible vaccines

		Role of tissue culture in agriculture, horticulture and
	CO5	forestry

			C01	To know the concepts of industrial Biotechnology and fermentation technology
			CO2	To remember the basics of Screening, Isolation, Maintenance of strains and Types of fermentation and Fermenters
B.Sc (Biotechnology/Chemistr y/Microbiology)	BTP604	Industrial Biotechnology	CO3	Identify in details with examples the basics of Process Development and Production of Microbial products
<i>y, microsco</i> 5 <i>y</i>			CO4	Understand the classification and characteristics of applied enzyme biotechnology and analyse fermented foods
			CO5	Understand the technique of mass culture and its application in production of algal and microbial polysaccharides

		Course Outcomes for B.Sc Bioc	hemistry (nep)	-
Program	Course Code	Course Name	Co Code	со
				Understanding of Biochemistry as a discipline and milestone
		Chemical foundation of Biochemistry -1	CO1	discoveries in life sciences that led to establishment of
				biomolecules and in chemical reactions within living organism
		Chemical foundation of Biochemistry -2	CO2	
				Understanding of the concepts of mole, mole fraction, molarit
		Chemical foundation of Biochemistry -3	CO3	etc. and to apply them in preparations of solutions of desired
B.Sc Biochemistry	DSC1			Revisit to fundamentals of chemical bonds, electronic
B.SC BIOCHEITIISTI y	DSCI	Chemical foundation of Biochemistry -4	CO4	configuration, theories of bond formation.
				Unique property of water as a universal solvent and its
		Chemical foundation of Biochemistry -5	CO5	importance in biological system
				Understanding of fundamentals of physical phenomena
		Chemical foundation of Biochemistry -6	CO6	associated with Adsorption, Viscosity, Distribution law, Osmot
				Understanding of concepts of acids, bases, indicators, pKa
		Chemical foundation of Biochemistry -7	CO7	values, etc
				This open elective course offering to students of various
B.Sc Biochemistry	OE-1		CO1	streams gives knowledge about health and various
D.SC DIOCHEITIISTI Y	06-1	OE-1 Biochemistry in Health and		Difference between communicable and non-communicable
		Diseases	CO2	diseases; Health promotion and treatments for various diseas
				These topics will enable students to understand the
B Sc Biochemistry	DSC2	Chemical foundation of biochemistry -2	CO1	fundamentals of chemical processes in biological systems

D.SC DIOCHEIHISU Y	DJUZ	1	[Appreciation of the roles of metals, non-metals, transition
		Chemical foundation of biochemistry -3	CO2	metals and coordination compounds in biological systems.
				Knowledge about energy requirements and the Recommended
			CO1	Dietary Allowances.
			CO2	understanding the functions and role of macronutrients, their requirements and the effect of deficiency and excess
				Understand the impact of various functional foods on our
B.Sc Biochemistry	OE-2		CO3	health
			CO4	
				Competence in connecting the role of various nutrients in
			CO5	maintaining health and learn to enhance traditional recipes.
				To be able to apply basic nutrition knowledge in making foods
		Nutrition and Dietetics	CO6	choices and obtaining an adequate diet.

		Department of chemistry,	/Biochemistry	
		Course Outcomes for B.Sc chem	nistry (NEP syllabus)	
Program	Course Code	Course Name	Co Code	СО
				The concepts of chemical analysis, accuracy, precision and
			CO1	statistical data treatment
				Prepare the solutions after calculating the required quantity of
			CO2	salts in preparing the reagents/solutions and dilution of stock
				The concept of volumetric and gravimetric analysis and
			CO3	deducing the conversion factor for determination
				Handling of toxic chemicals, concentrated acids and organic
	DSC1	chemistry -I	CO4	solvents and practice safety procedures.
				The concepts of Organic reactions and techniques of writing the
			CO5	movement of electrons, bond breaking, bond forming
			CO6	The Concept of aromaticity, resonance, hyper conjugation, etc.
			000	Understand the preparation of alkanes, alkenes and alkynes,
			CO7	their reactions, etc.
			007	Understand the mechanism of nucleophilic, electrophilic
			CO8	reactions
				Describe the analysis of important constituents in food items
			CO1	such as fat content in dairy products, caffeine in coffee/tea,
	OE-1			Give details of possible food additives, preservatives, colorants
		QE-1: CHEMISTRY IN DAILY LIFE	CO2	and adulterants commonly used in processed food.
		OE-1. CHEWISTRY IN DAILY LIFE		Explain the nutritional aspects of macro and micronutrients,
			CO3	namely oils/fats and vitamins respectively.
				Explain the chemistry of daily used products like
B.Sc Chemistry			CO4	soaps/detergents, batteries/fuel cells and polymers
				analysis with reference to acid-base, precipitation and
			CO1	a amplex amptrice titrations
				Handling of toxic chemicals, concentrated acids and organic
			CO2	solvents and practice safety procedures.
				Write the mechanisms of $S_N 1$ and $S_N 2$ reactions taking suitable
			CO3	examples.

DSC2	-2: Analytical/Physical and Organic Chem	CO4	Illustrate types of aromatic electrophilic and nucleophilic substitution reactions with examples. Give a comprehensive description or the gaseous state in terms
2002	2. r maly loan r hysteri and organic choir	CO5	of molecular velocity, their distribution based on Maxwell- Pextram mhorean proferines of nuclear state safer as viscosity.
		CO6	surface tension, refraction and parachor by defining them and <u>Learn inemode or determining indetermining weights or sources or</u>
		C07	measuring colligative properties and the concept of distribution
		CO8	Bravias lattices, Miller indices, Crystal systems, symmetry Desente methationecones, namery carbonyurates, annuo actus,
		CO 1	lipids and nucleic acids on the basis of their classification and
OE-2	OE-2-Molecules of Life	CO 2	Explain enzyme action, factors influencing enzyme action, co- enzymes and enzyme specificity.
		CO 3	Receptor theory, SAR studies and binding action of various
		CO 4	Study the energy dynamics of biological systems in terms of calorific values of macronutrients, their metabolic pathways and ATD as one accurate and a strategy of the systems of the system of the sy

		Course Outcomes for	B.Sc chemistry	
Program	Course Code	Course Name	Co Code	СО
			C01	Identify the characteristics of Chemical Kinetics
			CO2	Write down in details with examples of Chemcal kinetics of Thermodynamics.
	CO221	chemistry -III	CO3	Understand in details with examples of Thermodynamics I and II
			CO4	Identify in details with examples of Surface chemistry
			CO5	understanding of alcohols, ethers, thols and phenols.
			CO1	Identify the characteristics of Environmental Chemistry
	DO221	chemistry -IV	CO2	Specify the classification , characteristics properties of carbonyl compounds and carboxylic acids.
	00221		CO3	Understanding of Radioactivity.
			CO4	To learn the structures of solids.
			C01	Learning the synthesis and structural elucidation of citral,Zingiberene and nicotine
			CO2	Understanding of Heterocyclic compounds and amines in detail
	E0231	chemistry -V	CO3	To learn the structures and importance of terpenes, carbohydrates and alkaloids.
			CO4	structure elucidation of organic compounds using spectroscopic techniques
B.Sc Chemistry			CO5	understand the concepts of stereochemistry.

			C01	Deliberate the details of Electrochemistry I
	EO241	chemistry -VI	CO2	Specify in details with applications of Chemical Spectroscopy
	60241	chemistry - vi	CO3	Specify in details with applications of Chemical Spectroscopy Identify the classification and characteristics of Electroanalytical Methods Understanding of Ionic equilibria. To understand the chemistry of coordination compounds and their biological importance To learn the types and applications of industrial materials To learn about the organometallic compounds and their structure To introduce the newer materials in chemistry and to discuss their properties and relevance Understanding of Carbohydrates,lipids,proteins with examples Knowledge on metabolism of carbohydrates,lipids and proteins
			CO4	5
			C01	
	F0231	-h \ //I	CO2	To learn the types and applications of industrial materials
	F0231	chemistry -VII		- · ·
			CO3	
			To introduce the newer materials in chem	
			C01	Understanding of Carbohydrates.lipids.proteins with examples
			CO2	To learn about the organometallic compounds and their structure To introduce the newer materials in chemistry and to discuss their properties and relevance Understanding of Carbohydrates,lipids,proteins with examples Knowledge on metabolism of carbohydrates,lipids and protein
	FO241	chemistry -VIII	CO3	Understand the principle, procedure and applications of Biochemical Techniques
			CO4	Knowledge on Nucleic acids and enzymes
			CO5	understanding of molecularbiology

	Program	M.Sc Biochemistry	/	
	Subjects & Codes	Course Outcome	Course Outcome (Cos)
	FIRST S	EMESTER		
			CO1	Students got the knowledge of basic chemical and bio-physical properties of water
M.Sc Biochemistry	BCHT-01	:Biophysical and General Chemistry	CO2	Students have learnt about basic concepts of thermodynamics and Stereochemistry aspects
W.SC BIOCHEMISTRY	DCI1-01	.biophysical and General Chemistry	CO4	Students have learnt about fundamental chemical properties and functions of free radicals, biological heterocylic compounds
			CO3	These topics given biochemistry students to know about the fundamental mechanisms and rearrangements of common
			CO1 and CO2	Students able to understand the mechanisms of energy metabolisms in cells and think critically what will happen if
			CO3	Students seminars and assignments will give knowledge on how biological processes involved in cells
M.Sc Biochemistry	BCHT-02	Metabolism	CO4	Internal exams and quick tests in classroom make students to read the mechanisms and able to think critically
			CO6	Lab practicals of estimations of glucose, Cholesterol etc by biochemical processes involved in cells make students
			C07	Students will be able to read the research papers and understand the concepts with the help of teachers in classroom
			CO1	Students have learnt about introductory topics of various biochemical investigation methods

			CO2	Students got the detailed knowledge of microscopy and fluorescence microscopy
				Students got knowledge about detailed concepts related to
			соз	centrifugation and biocalorimetry
M.Sc Biochemistry	BCHT-03	Analytical Biochemistry-I		Students have understood about manometry and its
			CO4	applications and principles and applications of biocalorimetry
				Students got the knowledge on different radio-isotope methods
			CO5	used in biochemistry
				This chapter given information related to various statistical
			CO6	methods used in biochemistry research
				Students got the knowledge of Collagens – types, composition,
			CO1	structure and synthesis, Elastin,
			001	Students have learnt about basic concepts of Nervous system
			CO2	and muscular aspects
M.Sc Biochemistry	BCHT-04	General Physiology	02	These topics given biochemistry students to know about the
			СОЗ	fundamental mechanisms of Liver and liver function test
			003	Students have learnt about Cardio vascular system and
			CO4	mechanism of blood clotting
			04	· · · · · · · · · · · · · · · · · · ·
			604	Students got the knowledge of collection methods, tests and
			CO1	clinical significance of urinary compounds, stool and CSF
			c 0 2	Construction of the second standard standard standards and the standard standards
			CO2	Students have learnt in detail about metabolic disorders
M.Sc Biochemistry	BCHT-05	Clinical Biochemistry & Nutrition		These topics given biochemistry students to know about the
			CO3	hemorrhagic disorders and Disorders of liver and kidney
				Students have learnt about fundamental concepts of nutrition,
			CO4	basal metabolism, Protein nutrition and deficiency disease of
				Students have learnt about malnutrition, Recommended
			CO5	dietary allowances and its prevention
M.Sc Biochemistry	BCHP-06: General Biochemistry Pra	actical	со	Experiential Handson Skills in Biochemistry Practicals
M.C. Diochomistry				
M.Sc Biochemistry	BCHP-07: Bioanalytical Techniques	5	со	Experiential Handson Skills in Biochemistry Practicals
	SECOND	SEMESTER	·	
				Students have learnt about introductory topics of primary,
			CO1	seconday and Tertiary, Quaternary structure
				Students got the detailed knowledge of investigation of active
			CO2	site structure
				Students got knowledge about Mechanisms of action of the
		Dueteia Charatura & Farmerick	CO3	enzymes-lysozyme, ribonuclease, lactate dehydrogenase, serine
	BCHT-08	Protein Structure & Enzymology		Students have understood about Kinetic data evaluation-
			CO4	Michaelis-Menten equation. Haldane equation. King-Altman
			-	Students got the knowledge on Types of reversible and
			CO5	irreversible inhibitors
				This chapter given information related to various statistical
			CO6	methods used in biochemistry research
			1	Students have learnt in detail about Lipids Metabolism and the
			CO1	general concepts of nitrogen fixation, regulation and utilization
				Students got exposed to basics of General metabolic reaction of
			CO2	amino acids
ļ	RCHT-09	Metaholism-II		

	00111-03	ואוכנמטטווטוויוו		
				Students learnt in detail about Degradation and Biosynthesis of
			CO3	the individual amino acids
				Students understood the Biosynthesis and degradation of
			CO4	purine and pyrimidine nucleotides, porphyrins and phenolic
				Students have learnt about detailed prinicples, design and
			CO1	applications of different chromatography methods
			01	Students got exposed to basics of gas chromatography and its
			co)	
			CO2	applications
	BCHT-10	Analytical Biochemistry-II		Students learnt about various electrophoresis methods and its
M.Sc Biochemistry			CO3	applications
-				Students understood the concepts of various spectroscopic
			CO4	methods and its applications
				Students have learnts about proteomics and metabolomics
			CO5	concepts
				Immunology topics makes students understand the
			C01	mechanisms of immune cells and think critically what will
			001	Students will be able to draw schematic representation pictures
			c02	
			C02	based on the concepts of antigen and antibody reactions etc
	BCHT-11	Immunology & Microbiology		Microbiology topics makes students to focus more on theories
			C04	and experiments understanding how to be accurate when any
				Bacterial culture, bacterial growth, plasmid extraction etc lab
			C06	practicals makes students able to understand the concepts
				Guest lectures and seminars conducted by department along
			CO7	with articles reading makes students get interested in research
				Students learnt about introductory concepts related to
			CO1	bioinformatics
				Students got exposed to different data base applications in
			CO2	bioinformatic research
	BCHT-12	Bioinformatics & Research Methodology	02	Students have learnt about details of high-throuput data,
			соз	•
			03	annotations and structure predictions
				This chapter given knowledge on various research
			CO4	methodologies, literature collection methods and different
	BCHP-13	Immunochemistry & Informatics	CO	Experiential Handson Skills in Biochemistry Practicals
				E se de statute de signification de sature presidente
	BCHP-14	Enzymology	СО	Experiential Handson Skills in Biochemistry Practicals
	I HIRD S	EMESTER		
				Studentds have got knowledge on introductory information
			CO1	about molecular biology and its applications at present
				Students have got knowledge of prokaryotic DNA replication
			CO2	and eukaryotic DNA replication
	BCHT-15	Molecular Biology-I		
	DCIII-13		CO3	Students got knowledge on DNA repair mechanisms
				Students have learnt about prokaryotic and eukaryotic
			CO4	transcription mechanisms and regulations
				Students got knowledge on ribosomes in prokaryotes and
			CO5	eukaryotes; about the detailed mechanisms of translation and
				Students have understood about basic principles of signal
1			1	statents have anacistood about basic principles of signal
			CO1	transduction
			CO1	transduction
			CO1 CO2	transduction Students have learnt details of G-protein coupled receptor signaling pathway and its functions

			СОЗ	Students got knowledge on serine-threonine specific protein kinases and phosphatases
	BCHT-16	Biochemistry of Cell Signaling	000	Students have learnt about second messengers and
M.Sc Biochemistry			CO4	intracellular signaling proteins
			04	Students got knowledge on cytokines - interferon family and its
			CO5	pathways and about the details of cell cycle regulation
			05	Students have learnt in detail about the mechanisms and
			CO6	regulations of apoptosis and cancer
			000	
			CO1 and CO2	Membrane structure and mechanisms involved in
				plasmamembrane will make students think critically of cellular
			600	Experimental procedures involved in few chapters taught by
	BCHT-17	Membrane Biochemsitry	CO3	teachers make students able to design the experiments and
				Students will be able to write the assignments and give
			CO4	seminars on few topics. This practice will make students to read
				Few theory topics in thgis course involves experimental
			CO5	procedures and this makes both students And teachers to
	BCHT-18: 0 BCHP-19	DPEN ELECTIVE (Management Perspective Clinical Biochemistry	co	Experiential Handson Skills in Biochemistry Practicals
	BCHP-20	'	co	
		Molecular Biology Practicals	0	Experiential Handson Skills in Biochemistry Practicals
	FORT	1 SEIVIESTER		
			co1	Students have learnt about gene expression and regulation in
			CO1	prokaryotes and eukaryotes
				This chapter given information related to different
	BCHT-21	Gene Regulation & Genomics	CO2	transcriptional activators in the cells and regulation of gene
		-		Students have learnt about RNA interference and its role in
			CO3	normal cells and in pathology
				This chapter given complete information of genomics and
			CO4	functional genomics with respect to principles and various
			CO1	Students have learnt about Chromosomes and genes, mutation.
				Students got exposed to basics of classical genetics, Mendelian
			CO2	laws,Morgan's discovery
	BCHT-22	Molecular Genetic		Students learnt about Breeding analysis, genetics basis of
	_		CO3	quantitative variation.
				Students understood the concepts of Chromosomal analysis (in
			CO4	vitro, in vivo), gene mapping,
				Students have learnts about recombination, trnasduction,
			CO5	transfermation concepts
				This chapter given information related to various Restriction
			CO1	and modifying enzymes
				Students have got knowledge on basic concepts of cloning and
			CO2	Expression vectors
				Students got knowledge on genomic library construction and
M.Sc Biochemistry			CO3	Screening, Discovery, principle, procedure and application of
	BCHT-23	Genetic Engineering		Students learnt about Gene transfer to animal and plant cells in
			CO4	detail
				Students got exposed to different Fermentation process,
			CO5	downstream process operations, Nano and Industrial
I	I	I	205	downstream process operations, nano ana maastilar

			CO6	Students have learnt about details of Intellectual property and Ethical values in IP
			C01	Students have got the introductory information related to drug discovery cycle in industries
			CO2	Students have learnt about details of drug targets and drug metabolisms
	BCHT-24		CO3	This chapter given students about the details of drug discovery and development cycle
		Drug Discovery & Clinical Researc	CO4	Students have got knowledge on clincal trials and pre-clincal toxicology
			CO5	Students have learnt about bioavailability and bioequevalence studies
			CO6	Students have learnt about different terminology used in clinical research and pharmacovigilence
	BCHP-25	Genetic Engineering & Protein Chemistry	со	Experiential Handson Skills in Biochemistry Practicals
	Project		со	Experiential Handson Skills in Biochemistry Practicals

Program	CourseCode	CourseName	COCode	со
Msc(Chem)			C-102-4	Students attained the detail knowledge of biomolecules like
				carbohydrates & vitamins .
	C-102	Organic Chemistry I	CO3	
			C-102-5	student attained the knowledge of synthesis of heterocyclic
				compounds and their biological uses
			C201	Electronic spectra of coordination compunds; students gained
		InorganicChemistry- II		knowledge about spectroscopic gound state, orgel diagrams,
		morganicchemistry- n	C201	Magnetic properties of coordination compounds; students
	C-201			gained knowledge about types of magnetic behaviour,
			C202_1	Students gained detailed knowledge on reaarrangement
				reaction of organic compounds and
	C-202	Organic Chemistry II	C202_3	Students gained knowledge on Vitamines, synthesis and their
	0 202			biological roles
			C202_2	Students gained detailed knowledge on Amino acids and
				peptides synthesis
			C203_1	1. Students gained knowledge in thermodynamics-I: partial
				molar properties, phase rule, introduction to
			C203_2	2. Students are able to understand concept of distribution law
	C-203	Physical Chemistry II		of statistical thermodynamics and non
	0 205	r nysicar chemistry n	C203_3	3. Students gained knowledge in Electrochemistry: Debye-
				Huckel theory of strong electrolytes,
			C203_4	4. Students gained knowledge in Electrochemistry-II; Structur
				of electrical double layers, overpotential,
	C-301-OC	Organic Reaction Mechanisms		Organic Reaction Mechanism- Offers aliphatic substitution
				reactions, free radical chemistry, photochemistry and pericyc
				continued through Organic reaction paper-II. This paper gives
Msc(Chem)			C-302 - 1	Students attained the knowledge of Terpenoids and
				carotenoids

			C-302-2	Students attained the knowledge of Alkaloids
				i.e.nomenclature, Isolation, structure elucidation,
	C-302-OC	Chemistry of Natural Products	C-302-3	Students attained the Detailed knowledge of porphyrins-
		Chemistry of Natural Products		haemin and chlorophyll and vit B12
			C-302-4	student learned the detailed knowledge of synthesis of
				oligonucleotides
			C-302-5	Students attained the detail knowledge of synthesis of
				prostaglandins and Insect Pheromones
		Organic Spectroscopy	CO1	Organic Spectroscopy- Offers UV- Vis spectroscopy, Infrared
	C-303-OC			Spectroscopy, NMR spectroscopy and Mass Spectroscopy.
	C-305-OC	Organic Chemistry Practicals-I	CO1	Organic chemistry practicals I- At the end of the course
	0-303-00			students are able to carryout single step synthesis.
	C-306-OC	Organic Chemistry Practicals-II	CO1	Organic chemistry practicals II- At the end of the course
	0-308-00			students are able to identify the functional group by
	C-307-OC	Organic Chemistry Practicals-III	CO1	Organic chemistry practicals III- At the end of the course
				students are able to carryout Multi-step
	C-308-OC	Organic Chemistry Practicals-IV	CO1	Organic chemistry practicals IV- At the end of the course
	000-00			students are able to estimate the functional
	C-403-OC	Organic Synthesis	C-403- III	Students attained the detail knowledge of use of reagents in
				Oxidation reactions
			C-403-II	Students attained the detail knowledge of use of the reagents
				in organic synthesis.
			C-403- IV	Students attained the detail knowledge of use of reagents in
				Reduction reactions.
			CO1	Students attained the detail knowledge on steroids
	C-404-OC	Medicinal Organic Chemistry	CO2	Students attained the detail knowledge on antibiotics
		incurrent organic circinistry		
			CO3	Students attained the detail knowledge on synthesis of drugs
				and their mode of action

Proram	Course code	Course name	CO Code	Course objectives
				Present a thorough coverage of management theory, human
	1.1	MANAGEMENT AND BEHAVORAL	CO1	behaviour, organizational behaviour and practice. The objective
	1.1	PROCESS		To appraise the students on the application oriented case
			CO2	studies on functions of management and behavioural processes
				To enable the students to obtain knowledge about the concepts
	1.2	MANAGERIAL ACCOUNTING	CO1	of accounting principles, techniques of accounting and to
	1.2	MANAGERIAL ACCOUNTING		The syllabus also contains the practical components of the
			CO2	subject which enable the students gain more practical
				To acquaint students with general business law issues to help
			CO1	them become more informed, sensitive and effective business
				To understand the basic provisions of laws concerning
	13	BUSINESS PLANNING AND	CO2	incorporation and regulation of business organizations

т.Э	REGULATIONS		To provide the students with an understanding of fundamental
		CO3	legal issues pertaining to the business world to enhance their
		CO4	To focus on legal and statutory compliances
			To acquaint the participants with concepts and techniques used
1.4	ECONOMICS FOR BUSINESS DECISIONS	CO1	in Economics
1.4	ECONOMICS FOR BOSINESS DECISIONS		To enable them to apply this knowledge in business decision-
		CO2	making
			To elevate students' awareness of data in everyday life and
1.5	BUSINESS STATISTICS	CO1	prepare them for a career in today's age of information. To
1.5	bosiness statistics		To promote the practice of the scientific method in our
		CO2	students: the ability to identify questions, collect evidence
			The course will help the learner understand the basic concepts,
1.6	MARKETING MANAGEMENT	CO1	tools and techniques relevant to marketing management and
1.0	MARKETING MANAGEMENT		Student should be able to analyse basic marketing environment
		CO2	and marketing mix components, construct consumer profiles
	EMPLOYABILITY SKILL DEVELOPMENT -		
1.7	1	CO1	To impart employability skills with activities.
1.7			To bridge the gap between the skill requirements of the
		CO2	employer or industry and the competency of the students
			To make the students aware of the importance of
2.1	ENTREPRENEURSHIP AND START-UP	CO1	entrepreneurship opportunities available in the society for the
2.1	MANAGEMENT		To acquaint them with challenges of starting new ventures and
		CO2	enable them to investigate, understand and internalize the
2.2	BUSINESS RESEARCH METHODS	CO1	To enable students acquire thought process in research
			To imprint on them the paradigm of research in business & to
		CO2	make them use research as base for decisions
			This course is designed for a systematic and comprehensive
2.3	MANAGING HUMAN RESOURCES	CO1	study about the various facets of Human Resource
			Students will also get a perspective of the problems associated
		CO2	with HRM and their causes.
			To introduce the business intelligence process that support the
2.4	BUSINESS ANALYTICS	CO1	decision making in business operations.
			To expose the students to analytics practices used in various
		CO2	verticals across industries and thereby educating students to
			To enable a strong conceptual fundamentals for corporate
2.5	FINANCIAL MANAGEMENT	CO1	finance and make the students comfortable and easy
			The syllabus also contains the practical components of the
		CO2	subject which enable the students gain more practical
			To provide a formal quantitative approach to problem solving
2.6	PRODUCTION AND OPERATIONS	CO1	and an intuition about situations where such an approach is
	RESEARCH		To introduce some widely-used mathematical models. The
		CO2	understanding of these models will allow the students derive
			To assess and identify the individual employability skill
2.7	EMPLOYABILITY SKILL DEVELOPMENT –	CO1	deficiencies
	Ш		Facilitating student to take remedial measures to improve the
		CO2	status of skill deficiencies and enable students to apply these
	STRATEGIC MANAGEMENT AND		By the end of this course, a student would learn Identifying
3.1	BUSINESS ETHICS	CO1	Strategic alternatives, Applying Ethical corporate behavior and

	3.2.1			To provide knowledge and skill in identifying various
		INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT	CO1	investment alternatives and choosing the suitable one
	0.2.12			To orient on the procedures and formalities involved in
			CO2	investing.
	3.2.2	CORPORATE TAXATION FOR MANAGERS	CO1	The taxonomy of taxation and GST in India
	5.2.2			Computation of income tax liability of a corporate entity and
			CO2	the strategies for legally reducing tax burden
				To facilitate understanding of corporate valuation techniques
MBA- Master of Business			CO1	and restructuring activities in M&A
Administration	2.2.2	CORPORATE VALUATION AND		To communicate to the students the role that M&A plays in the
	3.2.3	FINANCIAL MODELING	CO2	contemporary corporate world.
				To enable the students to use the financial modeling techniques
			CO3	by using advanced tools
				To understand the opportunities and challenges in rural and
			CO1	green marketing
	3.3.1	RURAL AND GREEN MARKETING	01	To identify and assess rural market potential for products and
			CO2	,
-			02	services
				To describe the applications, challenges and the dynamic
	3.3.2	BUSINESS AND SOCIAL MARKETING	CO1	environment of B2B marketing, including the unique nature of
				To apply the basic and advanced techniques for development of
			CO2	social marketing strategies and develop price, promotion and
		CONSUMER BEHAVIOUR AND NEUROMARKETING		To understand personal, socio-cultural, and environmental
	3.3.3		CO1	dimensions that influence consumer decisions making
				To understand how the human brain processes information and
			CO1	generates responses while incorporating risk, feelings and
		PERFORMANCE MANAGEMENT AND		The objective of this course is to equip students with
	3.4.1	COMPETENCY MAPPING	CO1	comprehensive knowledge and practical skills to improve their
F		TALENT MANAGEMENT AND EMPLOYEE		The Objective of the subject is to enhance the readers'
	3.4.2	ENGAGEMENT	CO1	understanding of the domain of talent management and
—				To enable the students to understand various concepts and
			CO1	process of learning and development
			001	To design and implement Training Need Analysis for different
		LEARNING AND DEVELOPMENT	CO2	levels of employees in organizations
			602	To understand different types of learning and development
	3.4.3		CO3	
	5.4.5		05	methods based on needs of the organization and to evaluate
			601	To make students to learn how business organizations operate
			CO1	in an international environment.
	4.1	INTERNATIONAL BUSINESS		To understand the impact of international influences on
			CO2	business
			CO3	To help students to plan a spray in international husings-
			CO3	To help students to plan a career in international business
			604	To know the project manager's roles and responsibilities and
			CO1	financial projections.
	4.2.1	PROJECT ANALYSIS AND MANAGEMENT		To understand project selection and criteria and feasibility
			CO2	analysis
			CO3	To understand UNIDO approach for Social Cost Benefit analysis
			05	To understand exchange rates, and their relationship with
		INTERNATIONAL FINANCIAL	CO1	Economic variables.
	1 2 2		01	LCONUMIC VAHADIES.

	4.2.2	MANAGEMENT		To study the impact of exchange risk Hedging tools and
			CO2	techniques.
				To provide the concepts and foundations of managing financial
	4.2.3	DERIVATIVES AND RISK MANAGEMENT	CO1	risk in business enterprises
	4.2.3	DERIVATIVES AND RISK MANAGEMENT		To provide the concept of Derivatives, its types and how to
			CO2	minimise risk by using derivatives as a tool and acquaint the
				To understand the services domain from a marketing
	4.3.1	SALES AND DISTRIBUTION	CO1	perspective.
	4.3.1	MANAGEMENT AND RETAILING		To understand retailing as a business and have a
			CO2	comprehensive view of the marketing and store management
				To appreciate the challenges involved in managing the services
	4.3.2	SERVICES MARKETING AND CUSTOMER	CO1	and analyse the strategies to deal with these challenges.
	7.3.2	RELATIONSHIP MANAGEMENT		To give insights about the foundations of services marketing,
			CO2	customer expectations of services and gap existing in the
		INTEGRATED MARKETING COMMUNICATIONS AND DIGITAL MARKETING		To enumerate the role of advertising agency in bringing about
			CO1	coherence between the various communication mix and
	4.3.3			To understand the scope of Indian Media, and guide the
			CO2	students to explore career opportunities in media selling.
				To guide the students to see how companies are leveraging the
			CO3	internet for marketing products and service and build positive
	4.4.1			To be able to assess the extent to which multinational
		GLOBAL HRM	CO1	companies can have Global HRMstrategies, policies and
		02001211111		To apply concepts, approaches, and models to enumerate
			CO2	global scenario
	4.4.2	STRATEGIC HRM		To help students understand the factors of change in the
	7.7.2	SHALEGIC HIM	CO1	political, social, environmental and the economic scenarios that
				To build awareness of certain important and critical issues in
			CO1	Industrial Relations
	4.4.3	INDUSTRIAL RELATIONS AND HR AUDIT		To develop understanding of the Role and Process of HR Audit
			CO2	in Organisation at different levels.
				To Appreciate HR Audit in the context of changing forms of
			CO3	organisation

Derpartment of Mathematics					
CourseCode	CourseName	COCode	СО		
		C01	Understand in details with application, if applicable, Groups		
		C02	Learn the details of sequences of real numbers		
		C03	Specify in details with application, if applicable, series of real number		
MATT3	Mathematics-III	C04	Write down the details of Laplace transform		
		C01	Specify in details with examples Groups		
	Mathematics-IV	C02	Understand in details with examples Fourier Series		
	Mathematics-IV	C03	Deliberate in details with application, if applicable, Differential Calculus		

	MATT4		C04	Specify in details with application of Differential Equations.
			C01	Identify in depth Rings, Integral Domains and Fields
BSc[Computer Science			C02	Understand the characteristics of Differential Calculus Scalars and Vectors
and Mathematics]	MATT5	Mathematics-V	C03	Understand in depth Numerical Analysis
			C01	Write down the details of Calculus of Variation
			C02	Write down in depth Line and multiple Integrals
	MATT6	Mathematics-VI	C03	Write down in details with examples Integral Theorems
			C01	Learn the characteristics of Linear Algebra
			C02	Identify in details with application, if applicable, Orthogonal Curvilinear Coordinates
	MATT7	Mathematics-VII	C03	Write down the classification and characteristics of Partial Differential Equations
			C01	Learn in details with examples Complex Analysis
			C02	Specify the classification and characteristics of Complex integration
	MATT8	Mathematics-VIII	C03	Understand the details of Numerical solutions of algebraic and Transcendental equations

BSc[Computer Science and Mathematics]	MATDSCT 2	Algebra - II and Calculus - II	CO1	fundamental concepts of groups and symmetries of geometrical objects
			CO2	Explain the significance of the notions of cosets, normal subgroups and factor groups. Learn the quotient groups, concepts of homomorphism, isomorphism and properties
			CO3	Learn solve problems related to angle between radius vector and tangent, angle between two curves. Learn expressing the curves in pedal form, derivative of an arc .Learn the
			CO4	arc, area of plane curves and surface area, volume of revolution
			CO1	roots and coefficients.Learn Descartes' rule of signs to find roots-

	MATOET2	Mathematics –II	CO2	and Taylors and Meclaurin's expansion. Find the extreme values of functions of two variables.
			CO3	Integral Calculus: - To understand the concepts of multiple integrals and their applications.
			C01	Learn to find rank of a matrix and to Solve the system of homogeneous and non-homogeneous linear system of 'm' equations in'n' variables by using concept of rank of matrix,
BSc[Computer Science and Mathematics]	(MATDSCT1)	Algebra -I and Calculus – I	CO2	Become familiar with the techniques of finding nth derivatives of some standard functions
and Mautematics			CO3	Identify and apply the intermediate value theorems and L'Hospital's rule.
			CO4	learn partial differentiation, Jacobians and related properties.Learn expansion of Taylor's and Maclaurin's series of functions of 2 variables and maxima and minima
			CO1	Learn row and column operations, rank of matrix Learn to solve system of linear equations. Solve the system of homogeneous and non homogeneous m linear equations
BSc[Computer Science and Mathematics]	(MATOET 1)		CO2	Differential Calculus : Students will be familiar with the techniques of differentiation of function with real variables. Identify and apply the intermediate value theorems and L'Hospital's rule.
				Learn to evaluate integrals, find arc -lengths, areas and volume
		Mathematics – I	CO3	

Department of BBA

		Department of E NEP I Sem	BA	
Program	CourseCode	CourseName	COCode	со
				Understand the framework of accounting as well
			CO1	accounting standards.
BBA – Bachelor of				The Ability to pass journal entries and prepare ledger
Rusiness	RRA 1 2	Fundamentals of Accounting	CO2	accounts

DUSIIICSS	DDA 1.2	Fundamentals of Accounting		
Administration			CO3	The Ability to prepare various subsidiary books
			CO4	The Ability to prepare trial balance and final accounts of proprietary concern
			CO5	Construct final accounts through application of accounting software tally
			CO1	The ability to understand concepts of business management, principles and function of management
BBA – Bachelor of			CO2	The ability to explain the process of planning and decision making.
BBA – Bachelor of Business Administration	BBA 1.1	NAGEMENT PRINCIPLES & PRAC	CO3	The ability to create organization structures based on authority, task and responsibilities The ability to explain the principles of unection,
			CO4	importance of communication, barrier of communication, motivation theories and leadership styles.
			CO5	The ability to understand the requirement of good control system and control techniques.
			CO1	Understand the concepts and functions of marketing.
BBA – Bachelor of			CO2	Analyse marketing environment impacting the business
Business Administration	BBA 1.3	MARKETING MANAGEMENT	CO3	Segment the market and understand the consumer behavior
			CO4	Describe the 4 p's of marketing and also strategize marketing mix
			CO5	The ability to understand the requirement of good control system and control techniques.

NEP II Sem

Program	CourseCode	CourseName	COCode	СО
			CO1	Ability to describe the role and responsibility of Human resources management functions on business
BBA – Bachelor of			CO2	Ability to describe HRP, Recruitment and Selection process
BBA – Bachelor of Business Administration	BBA 2.2	HUMAN RESOURCE MANAGEMENT	CO3	Ability to describe to induction, training, and compensation aspects
			CO4	Ability to explain performance appraisal and its process.
			CO5	Ability to demonstrate Employee Engagement and Psychological Contract

BBA – Bachelor of Business Administration	BBA 2.3	BUSINESS ENVIRONMENT	CO1 CO2 CO3 CO4 CO5	An Understanding of components of business environment Ability to analyse the environmental factors influencing business organisation Ability to demonstrate Competitive structure analysis for select industry. Ability to explain the impact of fiscal policy and monetary policy on business Ability to analyse the impact of economic environmental factors on business.
BBA – Bachelor of Business Administration	BBA 2.3	BUSINESS MATHEMATICS	CO1 CO2 CO3 CO4 CO5	The application of equations to solve business problems The Application AP and GP in solving business problems The calculation of simple interest, compound interest and discounting of Bills of Exchange The application of matrices in business. The Application of ratios and proportions in business.

Department of BBA

NON NEP III Sem					
Program	CourseCode	CourseName	COCode	СО	
				1. To familiarize students with the various concepts and	
	BBA 3.3	Cost Accounting	CO1	elements of cost and methods of ascertaining the costs	
				1. To familiarize the students with various aspects of	
	BBA 3.4	Human Resource Management	CO1	Human Resource Management.	
		Compared Comparing the Chille I		1. To enable the students to understand the skills required	
	BBA 3.2	Corporate Communication Skills - I	CO1	for effective communication at different levels of an	
BBA – Bachelor of				1. To provide an insight into the functioning of Indian	
BBA – Bachelor of Business	BBA 3.5	Financial Markets and Services	CO1	financial system and various components of the financial	
		Financial warkets and Services		2. To make the students to understand the inter-relationship	
Administration	BBA 3.5		C02	among different components and the impact on business	

			To help the students to acquire knowledge on the various
BBA 3.6	Business Data Analysis	CO1	statistical tools used for data analysis that can be applied in
			To help the students to understand the statistical tools
BBA 3.6		C02	available for business data testing
	CORPORATE FINANCIAL		To enable students to understand the basic concepts of
BBA 3.7	MANAGEMENT	CO1	Financial Management and the role of Financial

Department of BBA Non NEP IV Sem

		NULLINEE IN JEIL		
	BBA. 4.2	CORPORATE COMMUNICATION SKILLS – II	C01	To help the students to gain comprehensive knowledge and skill about corporate communication
	BBA 4.3	BUSINESS RESEARCH METHODS	C01	To create an awareness of the Process of Research, the tools and techniques of research and generation of reports.
	BBA 4.4	BANKING LAW AND OPERATIONS	CO1	To familiarize the students with the operations and innovations in Banking Sector
BBA – Bachelor of	BBA 4.5	ENTREPRENEURSHIP DEVELOPMENT	C01	To enable students to understand the basic concepts of Entrepreneurship and prepare Business Plan to start a Small Industry
Business Administration	BBA 4.6	MANAGEMENT ACCOUNTING	CO1	To enable the students to understand the analysis and interpretation of Financial Statements with a view to prepare Management Reports for Decision making
	BBA 4.7	CUSTOMER RELATIONSHIP	CO1	To make the students understand the concepts, role, principles and changing face of CRM as an IT enabled function.
	BBA 4.7	MANAGEMENT	co2	To make the students to learn the skills required for effective management of Customer Relationship
	BBA 3.7	CORPORATE FINANCIAL MANAGEMENT	CO1	To enable students to understand the basic concepts of Financial Management and the role of Financial Management in decision-making.

Department of BBA Non NEP V Sem

NOTIVEF V SETT				
				To expose students to various provision of Income Tax Act
	BBA. 5.1	INCOME TAX - I		relating to the computation of Income of Individual
			CO1	Assessee
				To introduce the students to the various Legislations
	BBA 5.1	BUSINESS REGULATIONS		affecting Business and to familiarize them with such
			CO1	Regulations
		INDIRECT TAXES	CO1	To impart Students knowledge on GST and Customs Duty
				To make the students to understand the rules, regulation
	BBA 5.3		CO2	and procedures relating to GST and Customs Duty

	BBA 5.4	INFORMATION TECHNOLOGY FOR BUSINESS – I	CO1 CO2 CO3	To familiarize students with nature and purpose of database Systems and how they work To develop skills among the students to design and implement simple Computer based business Information Systems using MS EXCEL. To familiarize students in latest aspects of Information Technology used in business context.
BBA – Bachelor of Business	FN 5.5	ADVANCED CORPORATE FINANCIAL MANAGEMENT	CO1	To provide knowledge on valuation of business enterprises To make students understand the various models of value- based management.
Administration			соз	To give insight on various forms of corporate restructuring To provide knowledge and skill in identifying various investment alternatives and choosing the suitable
	FN 5.6	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	CO1 CO2	alternatives To orient on the procedures and formalities involved in investing.
	MK 5.5	CONSUMER BEHAVIOUR	C01	To develop an understanding about the consumer decisior making process and its applications in marketing function of firms To familiarize students with essential concepts and
	MK 5.6	INTEGRATED MARKETING COMMUNICATION	CO1	techniques for the development and designing of an effective Integrated Marketing Communication program. To provide the learning about various communication
_			CO2 CO3	tools and its effectiveness Foster creative ideas among learners for development of effective marketing communication program To familiarize students with the Industrial Relations and
	HR 5.6	INDUSTRIAL RELATIONS AND EMPLOYEE LEGISLATION	CO1	Legislations relating to Regulatory and Social Security of Employees in India.
	HR 5.5	COMPENSATION AND PERFORMANCE MANAGEMENT	CO1	To enable the students to understand the various methods and practices of Compensation and Performance Management

Non NEP V Sem

BBA 6.	6.1	INCOME TAX - II	CO1	Tax Liability of individuals.
BBA 6.	6.2	STRATEGIC MANAGEMENT	CO1	as Strategic Planning, Implementation and Evaluation.
BBA 6.	6.3	INTERNATIONAL BUSINESS	CO1	International Business Management

			CO1	To familiarize with the aspect of Internet, Email, Search Engine
	BBA 6.4	ORMATION TECHNOLOGY FOR BUSINESS	CO2	emerging world of E-commerce
	BBA 0.4	ORMATION TECHNOLOGY FOR BUSINESS	C03	To develop skills in E marketing Techniques
			CO4	To familiarize with the aspect of Online Social Networks
BBA – Bachelor of			CO1	business.
BBA – Bachelor of Business Administration	FN 6.5		CO2	capital budgeting decisions
Susiness Auministration		RISK MANAGEMENT AND DERIVATIVES	CO3	business and strategies for hedging the same with derivatives
	FN 6.6		CO1	international markets
			CO2	exposed to on account of international transactions.
		INTERNATIONAL FINANCE	CO3	To provide knowledge and skills for hedging foreign currency risks.
	MK 6.5	DIGITAL MARKETING	CO1	for marketing success and to manage customer relationships across al
	MK6.6	SUPPLY CHAIN AND LOGISTICS	CO1	Chain Management Strategies and the Market Environment for
	HR6.5	INTERNATIONAL HUMAN	CO1	International Human Resources Management
	HR6.6	ORGANISATIONAL	CO1	Change and Development and the OD Interventions for creating

Department of BCA

III Year

Program	CourseCode	CourseName	COCode	со
			CO1	Learn in depth Communication Network and services,
			CO2	Specify in details with examples Transmission
BCA-Bachelor of Computer Application	BCA501T		CO3	Learn the characteristics of Peer –to-Peer Protocols, ARQ
			CO4	Learn the characteristics of Local Area Networks and Medium
			CO5	Identify in details with examples LAN Standard – Ethernet and

Program	CourseCode	CourseName	COCode	СО
BCA-Bachelor of Computer Application BCA502T			CO1	Learn about Artificial Intelligence, Heuristic search techniques
			CO2	Knowledge representation using predicate logic, non-monotonic
	BCA502T	Artificial Intelligence	CO3	Planning: block world, strips, Implementation using goal stack,
			CO4	Learn about matching algorithm, neural networks
			CO5	Natural language processing and understanding and pragmatic,

Program	CourseCode	CourseName	COCode	со
Application	BCA503T		CO1	Write down in details with examples Introduction to JAVAA
Application	BCA503T		CO2	Write down in depth Classes, Arrays, Strings and Vectors
Application	BCA503T	JAVA Programming	CO3	Write down the details of Interfaces, Packages, and Multi
Application	BCA503T		CO4	Understand the classification and characteristics of Managing
Application	BCA503T		CO5	Identify the classification and characteristics of Graphics

Program	CourseCode	CourseName	COCode	со
Application	BCA504T		CO1	Delibrate definition of algorithm and analysis of algorithm
Application	BCA504T		CO2	Understand about Divide and Conquer
Application	BCA504T	Analysis and Design of Algorithm	CO3	Learn about greedy method
Application	BCA504T		CO4	Understand about dynamic programming and multistage graph
Application	BCA504T		CO5	learn about basic traversal &search techniques

Program CourseCode CourseName COCode CO	Program	CourseCode	CourseName	COCode	со

Application	BCA601T		CO1	Specify in details with examples Introduction of System
Application	BCA601T		CO2	Specify the classification and characteristics of Assemblers, Pass
Application	BCA601T	.,	CO3	Features of Macro Processor, Data structures, databases, Pass1
Application	BCA601T		CO4	Specify the characteristics of Loaders, different loader schemes,
Application	BCA601T		CO5	Understand the details of Compilers, stages of compilers with

Program	CourseCode	CourseName	COCode	со
Application	BCA602T		CO1	Learn about communication and leadership
Application	BCA602T	PROFESSIONAL AND BUSINESS COMMUNICATION	CO2	Understand about social style and culture difference in
Application	BCA602T		CO3	Learn to prepare for the interview
Application	BCA602T		CO4	Understand and improve team dynamics
Application	BCA602T		CO5	Preparing and organizing a presentation, writing business

Program	CourseCode	CourseName	COCode	со
Application	BCA603T		CO1	Understand the details of Fundamentals of web
Application	BCA603T		CO2	Identify in depth HTML and XHTML
Application	BCA603T	WEB Programming	CO3	Specify the classification and characteristics of Java Script
Application	BCA603T		CO4	Deliberate the details of Java Script and HTML documents
Application	BCA603T		CO5	Deliberate in details with examples Dynamic documents with

Program	CourseCode	CourseName	COCode	со
Application	BCA303T		CO1	understand the c++ features, functions
Application	BCA303T		CO2	learn in depth about Objects and Classes, Constructors &
Application	BCA303T	Object Oriented Programming using C++	CO3	Specify characteristics of Operator overloading
Application	BCA303T		CO4	Identify the purpose of Virtual functions, friend function
Application	BCA303T		CO5	Learn in details with examples about Template concept and

Program	CourseCode	CourseName	COCode	со
Application	BCA304T		CO1	Write down the classification and characteristics of History and
Application	BCA304T	Financial Accounting and Management	CO2	Learn in details with application, if applicable, Financial
Application	BCA304T		CO3	Specify the characteristics of Accounting for bills of Exchange
Application	BCA304T		CO4	Understand the details of Preparation of Final Accounts
Application	BCA304T		CO5	Learn in details with examples Accounting package like tally

Department of BCA II Year

Program	CourseCode	CourseName	COCode	со
Application	BCA305T		CO1	Deliberate in details with application, if applicable, Batch
Application	BCA305T		CO2	Identify in details with application, if applicable, Process
Application	BCA305T	Operating System	CO3	Learn the details of Memory Management
Application	BCA305T		CO4	Learn the details of File management
Application	BCA305T		CO5	Deliberate in details with examples Protection and Security

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Program	CourseCode	CourseName	COCode	CO

Application	BCA403T		CO1	Understanding .Net framework,Features and IDE
Application	BCA403T		CO2	Creating application with VB.NET, Understanding Exception
Application	BCA403T	Visual Programming .NET	CO3	Programming n VB.NET and understanding scope and
Application	BCA403T		CO4	Building web application in ASP.NET, binding to databases using
Application	BCA403T	-	CO5	Learning SQL database usage in ADO.NET,LINQ

Program	CourseCode	CourseName	COCode	со
Application	BCA404T		CO1	Deliberate the details of Introduction to Unix system
Application	BCA404T		CO2	Write down in depth Secondary Storage Management
Application	BCA404T	UNIX programming	CO3	Identify in details with examples Shell Programming
Application	BCA404T		CO4	Deliberate in details with examples Conditional Control
Application	BCA404T		CO5	Specify the details of Unix System Communication

Program	CourseCode	CourseName	COCode	со
Application	BCA405T		CO1	Identify in details with application, if applicable, Introduction to
Application	BCA405T		CO2	Learn the characteristics of Software prototyping:prototyping
Application	BCA405T	Software Engineering	CO3	Identify the classification and characteristics of Object oriented
Application	BCA405T		CO4	Deliberate the characteristics of Software reliability and
Application	BCA405T		CO5	Learn the classification and characteristics of Software

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Program	CourseCode	CourseName	COCode	со	
Application	CA-C2T		CO1	the algorithms	
Application	CA-C2T		CO2	Understanding the concepts of C programming	
Application	CA-C2T		CO3	array techniques	
Application	CA-C2T		CO4	Delibrate the concept of merging, sorting and searching	

Program	CourseCode	CourseName	COCode	со
Application	CA-C3T		CO1	Perceive the Role of Data Organization and Data Structures
Application	CA-C3T		CO2	Understanding the concepts of Linked list, stack and queue
Application	CA-C3T		CO3	graphs
Application	CA-C3T		CO4	Delibrate the concept of Sorting, searching and hashing

Program	CourseCode	CourseName	COCode	со
Application	CA-C3T	Computer Architecture	CO1	computer
Application	CA-C6T		CO2	Learn the Basic organization and design of computer
Application	CA-C6T		CO3	Understanding the Micro-operations and register transfer
Application	CA-C6T		CO4	Delibrate the concept of Memory system

Program	CourseCode	CourseName	COCode	со
Application	CA67T		CO1	and classes
Application	CA67T	JAVA Programming	CO2	Learn Inheritance and Polymorphism

Application	CA67T	CO3	Understand the different events and GUI Programming
Application	CA67T	CO4	Learn multithreading in java

Program	CourseCode	CourseName	COCode	со
Application	CA-C8T		CO1	Learn Databases abd Database users,Data models
Application	CA-C8T	DBMS	CO2	Learn Data modeling using ER model
Application	CA-C8T		CO3	Understand the concept of Relational Algebra, SQL
Application	CA-C8T		CO4	Understanding Transaction processing, Concurrency Control

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