MEERUT INSTITUTE OF TECHNOLOGY, MEERUT

Course Outcomes Session 2023-24

Programme	Semester	Course Code	Course Name Name		Course Outcomes
				CO1	To understand about Indian Agriculture and importance, present status, scope and future prospect.
				CO2	To understand the Cropping seasons of India, Soil formation and its properties.
				CO3	To understand the crops and crops seeds.
	First	AG-101	Fundamentals of Agronomy	CO4	To apply the understanding of Agronomy for crops cultivation and management for the purpose of producing food for human, feed for animal and raw material for industries.
				CO5	To analyze the relation of Agronomy with other disciplines such as Botany, Soil Science, crop physiology, plant ecology, plant protection, Plant Genetics and Breeding, Agro meteorology etc.
				CO1	To understand about the historical development aspect of genetics.
	The same of			CO2	To understand the concept of inheritance and cell division.
	First	AC 102	Fundamentals Of Counties	CO3	To understand the linkage and crossing over and its significance in plants.
	First	AG 102	Fundamentals Of Genetics	CO4	To understand the causes of various genetic disorders proper.
				CO5	To know proper handling during laboratory work.
				CO6	Understand the basic concepts of the ultra structure of cell, cell organelles, chromosomes and nucleic acids.
				CO1	To understand about soil forming rocks and minerals, their weathering and soil forming processes .
				CO2	To understand about physical and chemical properties of soil and their effect on plant's health.
		light 200 miles and an artist of the control of the		CO3	To understand students about causes, effects and remedies to prevention and mitigation of soil pollution.
	First	AG 103	Fundamentals of Soil Science	CO4	Student will able to evaluate physical and chemical properties of soil.
				CO5	The students are expected to gain practical knowledge on different aspects of fundamental of soil science like genesis of soil, soil profile, various properti soil viz., soil texture, soil structure, soil density, soil colour, soil temperature, soil air, soil colloid, soil organic matter, soil organisms etc.
				CO1	To understand horticulture relates to the economy and environments, both currently and in the future.
				CO2	Students will understand basic principles, processes and plant propagation methods.
	First	AG 104	Fundamentals Of Horticulture	CO3	Students will be able to understand plant vegetative structure
				CO4	Students will apply his understanding in plant propagations, harvest and management.
				CO5	Students will acquire practical knowledge on physiology of horticultural crops, PGR and their functions uses and biotic and abiotic stresses.
				CO1	To Understand and analyze social, economic and political aspects of rural society.
				CO2	To Understand the changes that are taking place in rural society.
		AG-105		CO3	To Understand the psychological concepts and Rural leadership.
	First		Rural Sociology and Educational Psychology	CO4	To understand basic rural institution and their role.
				CO5	To be able to demonstrate nature, subject-matter and importance of studying Rural Sociology.
				CO6	The learners are expected to develop expertise on different concepts and issues of rural sociology and educational psychology.
				CO1	Students will understand recognize various harvesting, transportation, and processing systems used in the management of forest resources and production forest products
				CO2	Students will understand develop and evaluate management plans with multiple objectives and constraints.
	***	10.100		CO3	Students will learn how to develop and apply silvicultural prescriptions appropriate to management objectives.
	First	AG 106	Introduction to Forestery	CO4	Students will understand analyze forest inventory information and project future forest, stand, and tree conditions.
				COS	Students will demonstrate a familiarity with silvicultural terminology and be able to discuss practical application of regeneration techniques, intermediatements, and alternative silvicultural systems.
				CO1	To understand the importance and contribution of livestock in the state and national economy.
itule of				CO2	Students will be able to understand the mechanisms and role of reproductive physiology in livestock production.
S VIII				соз	Students will understand the application of modern animal production technologies and management practices impact the production facilities, the communities and the world.
(NII)	First	AG 107	Introduction Animal Husbandry	CO4	To have minimum basic understanding of different disease encountered in the farm animal and poultry and their preventive and control measures.
An and the				COS	Students will able to apply concepts of breeding, physiology, nutrition, herd-health, economics and management into practical and profitable animal production programs.
100		1 2 2 2 2 3		CO6	To make students practically stronger to undertake entrepreneurship in the livestock and poultry sector.
				CO1	Student will able to understand the functional aspects of english grammar.
	Firet	AG 100		CO2	The course will acquaint students with the common english sentence structures, enable them to form new sentences and detect common errors.

Lust	WO 100	Comprehension communication skill in chighsin	coa	
			CO3 5	Student will understand the different styles of reading and develoo their english comprehension.
				Strudent will able to write application and report. It will develop written communication skills of the students.
				To increase the vocabulary of students and develop their understanding english.
Pine	40 100			To Know about Ancient Agricultural Practices & Its relevant to modern agriculture practices.
First	AG 109	Agriculture Heritage		To understand Our Journey (Developments) in Agriculture and Vision for the Future.
				To understand our traditional technical knowledge.
				To understand about Indian Agriculture and importance, present status, scope and future prospect.
First	AG 110	General Agriculture I		Students will apply his understanding in plant propagations, harvest and management.
				To understand about physical and chemical properties of soil and their effect on plant's health.
				To understand the knowledge of Plant Pathology.
			CO1 1	The student will be able to read, understand, and critically interpret the primary biological literature in his/her area of interest.
			CO2 1	The student will be able to design, conduct, analyze, and communicate (in writing and orally) biological research.
100			соз	The student will recognize and be able to apply basic ethical principles to basic and applied biological/biomedical practice and will understand the rol biological/biomedical science, scientists, and practitioners in society.
Pinet				The student will be able to explain the process of organic evolution and its underlying principles and mechanisms.
First	AG 111	Introductory Biology	1	The student will be able to explain the fundamental biological processes of metabolism,
			ı	homeostasis, reproduction, development, and genetics, and the relationships between form and function of biological structures at the molecular, cellular, organismal, population, and
			CO1 1	To understand the importance and contribution of livestock in the state and national economy.
all l			CO2 1	To understand the importance of farm power and machenary.
First	First AG 112	General Agriculture II	CO3 1	To understand about the various implements used in agriculture farm for various purposes.
				To identify elements of business success in agriculture as well as elements that determine economic role of agriculture in national economy.
				To understand of basic concepts of statistics and applied mathematics.
				To analyse the data using various statistical test like Z- Test, T-Test, F- Test, Chi- SquareTest.
First	AG 113	Elementary Math		To take appropriate decision by applying the concepts of analytics and experimental design.
			CO4 1	The students to make thei rexperimental designs, statistical analysis, and error estimation etc. for their research work.
4 / 1			cos T	To compute various measures of central tendencies, dispersion, probability, sampling techniques, differentiation and their implementation in solving the numerical problems.
			CO1 T	To uphold the value system based on the cultural, social, political and moral bases of Indian society.
First	AG 114	NSS	CO2	dentify and solve the major social and environmental issues/challenges and equip the classroom learning to face those challenges.
177				Develop teacher competence, sensitivity and teacher motivation.
				Role of crop physiology in crop health.
				dentification of deficiency symptoms of nutrients.
				To understand the metabolic and synthetic pathway of biomolecules.
Second	AG 201	Fundamentals of crop physiology		To know the difference between C3, C4 and CAM plant.
			-	The students will understand various aspects of stress physiology such as physiological and molecular basis of abiotic stress tolerance in plants.
71111				To understand the importance of growth Harmon in Agriculture.
				To know the role of crop physiology in crop health.
				To be able to identification of deficiency symptoms of nutrients.
				To understand the metabolic and synthetic pathway of biomolecules.
Second	Second AG 202	Fundamentals of plant biochemistry		Fo know the difference between C3, C4 and CAM plant.
				The students will understand various aspects of stress physiology such as physiological and molecular basis of abiotic stress tolerance in plants.
			10000	
				To understand the importance of growth Harmon in Agriculture.
				To understand the knowledge of Insects.
Second	AG 202	Fundamentals of automateur	CO2 T	To understand about the insects morphology, anatomy, sense organs.
Second	AG 203	Fundamentals of entomology		o understand general introduction of phylum Arthropoda, its various classes & their character with reference to class-Insecta.
7 2 7				To understand the pre development & post embryonic development.
			CO5 T	The students will be able to get acquainted with the different techniques of management of crop pest in an integrated way.



Connect	40.004	NOT STORY		To understand the market agents and controlled market
Second	AG 204	Fundamentals of agricultural economics	CO3	To understand the problems of marketing of Agriculture produce.
			CO4	To gain fundamental understanding of demand and supply of a commodity.
			COS	To undertstand about importance of cooperative system and corporative Banks
			CO1	To understand Initiatives taken by Government for organic produce.
Second	AG 205	Principles of organic farming	CO2	To understnd role of NGOs in producing organic products.
econd AG 205	Trinciples of organic farming		To know about Selection of crops and varieties for organic produce	
		Market and the second		To know the procedure of Certification of organic produce.
				To understand the knowledge of Plant Pathology.
Second	AG 206	Fundamentals of plant pathology		To understand the reasons of plant pathogens.
300.00	710 200	r divamentals of plant pathology		To understand the pathogen fungi and classification.
				To understand the pathogen bacteria and morphology, reproduction and role of causes the diseases.
			CO1 :	Students will understand practical knowledge on specialized production techniques of vegetables and spices.
Second	AG 207	Production technology of vegetables and spices	CO2	Studentswill understand Importance of vegetables & spices in human nutrition improved and national economy.
			CO3 :	Students will knowledge about quality requirement and production and techniques.
			CO1	To understand of the rural development schemes.
				To understand of the problems of rural development.
Second	AG 208	Fundamentals of agricultural extension		To understand different methods for transfer of agricultural technology.
		education	CO4	To understand of aids for extension activities as projector, display board, field demonstrations.
			CO5	To be able to create plan for developmental activities.
				To determined the relative importance of attributes of food safety improvement in the production chain of fluid pasteurized milk.
Second	Second AG 209	Diary processing and safety issues		To know about methods for improving milk safety in smallholder dairying. Students will understand about traditional systems of cattle and concepts of far
			CO3	To understand about general classification, characteristics, scope of microbes in dairy industry.
			CO4	To understand the role of milk in transmission of disease, management practices and regulations to ensure safe dairy products.
			CO1	To give basic insights and inputs to the student to inculcate Human values to grow as a responsible human beings with proper personality.
			CO2	To instill professional Ethics in the student to maintain ethical conduct and discharge their professional duties.
Second	AG 210	Human values & ethics	CO3	To understand the difference between values and skills, happiness and accumulation of physical facilities, the Self and the Body, Intention and Compete an individual, etc.
			CO4 1	To understand the role of a human being in ensuring harmony in society and nature.
				To distinguish between ethical and unethical practices, and start working out the strategy toactualize a harmonious environment wherever they work.
			CO1 1	The students will be able to know about origin, geographical distribution, and economic importance of Kharif crops
- W /		Comp Description Technology (1991) 15 C	CO2 1	To be able to know about Soil and climatic requirements, varieties, cultural practices and yield of Kharif crops.
Third	AG301	Crop Production Technology-I (Kharif Crops)	CO3 1	To Analysis of comparative benefits of the different kharif crops
4 4				To understand Constraints in production of oilseeds and pulses maybe identified through course content.
			CO5 1	To understand Production technology of kharif cereals and millets fulfill the need of human consumption and milch cattle
			CO1 S	Students will be acquainted with the knowledge of profitable crop production technology.
		Practical Crop Production -I	CO2	Students will able to understand about ruminative crop production technology.
Third	AG302			It helps to adopt diversified farming system according to available farming situation.
		CO4 I	t will assist to encourage the sustainable agriculture system.	
			CO5 T	To understand the Profitable based farming system that we can adopt.
			CO1 1	To be able to establish the commercial plant breading company to developed
		The same of the sa	CO2 T	To be able to establish the commercial plant breeding company to developed new superior crops varieties.
Third	Third AG303	Fundamentals of Plant Breeding	CO3 1	To be able to develop the insect and disease resistant varieties for environment friendly management of disease and insect. To be able to serve the quality food in the market by developing high nutritive varieties.
owners and		A CONTRACTOR OF THE PARTY OF TH	CO4 T	To understand how to increase the form yield to get higher because of fem by the second of the secon
			CO5 T	To understand how to increase the farm yield to get higher income on farm by developing higher yield crop varieties.
			CO1 T	To be able to start a consultant company to guide & supply the better varieties to the farmers.
Third	AG304	Agricultural Microbiology	CO2 1	To understand the basic microbial structure, function and study the comparative characteristics of prokaryotes and eukaryotes.
Address of the second				To know the various Physical and Chemical growth requirements of bacteria
	PROPERTY OF THE PARTY OF THE PA		CO1 1	To Impart knowledge about production of beneficial bacteria.
0.27			CO1 T	o understand the broad feature of Indian financial institutions with instruments to control credit in the country.
		Agricultura Einanca & co aparation	CO2 T	To be able to narrate the kinds and components of money with its regulatory system . Be aware of the functions, objectives and limitations of commercial based on the functions of commercial based on the function of the functions of the function

PRITCUITURE FINANCE & CU-OPERATION Third AG305 To identify the existence and development of non- banking financial institutions, know the important role of mutual fund. LIC investment companies etc. Utilize and effectively participate in the development process. CO4 To understand the macroeconomics aspects of the economy as they affect the agricultural sector. To be apply economics principles to understand the conduct and performance of the agricultural industry. CO1 To know about various sources of farm power and their uses. B.Sc. Agriculture (Hons.) To know about working of IC Engines and their uses in modern equipments. Farm Machinery & Power Third AG306 CO3 To understand various parts of tractors and their mechanism. To understand the financial aspects of using farm power CO5 To know about the various implements used in agriculture farm for various purposes. CO1 Student will know importance of sign and symptoms for detection of pathogens and disease. CO2 Student acquire the knowledge of Integrated methods of disease management. Principals of integrated Disease Management Third AG307 To Learn about biological and chemicals in disease management. To understand Insect Vectors transmitting plant diseases. CO4 To gain understanding of Insect Control Methods. To gain knowledge on Environment, its structure, climate change, sustainable development, disaster management, different type of diseases and public health CO1 management. To develop an understanding on the Environment, ecosystem, biogeochemical cycle, environmental pollution and capability to identify relevant environmental CO2 issues, analyse the various underlying causes, evaluate the practices and policies, and develop framework to make informed decisions. **Environmental Studies and Disaster** CO3 To be able to develop an objective view on population ecology, population growth and controls, climate change and sustainable development goals. Third AG308 Management To understand the concept of disaster management, vulnerability, assessment and risk analysis, institutional framework, preparedness measures and survival CO4 To apply proficiency in analytical methods, critical thinking, communication, and leadership skills sufficient to make a contribution in environmental and related CO₅ To analyse critical issues in public health management, communicable and non-communicable disease, life style management, transmission of epidemic-CO6 pandemic diseases and its prevention. Learner will enable to understand the role of different public sectors in managing health disaster. CO1 To familiarize with some basic concepts in statistics. Statistical Methods To understand and familiarize elementary statistical methods of analysis of data viz. Measures of Central Tendency, Dispersion, Moments, Skewness, and Third AG309 CO2 Kurtosis and to interpret them. To Analysis data pertaining to attributes and to interpret the results. To understand the principles and concepts of soil and water conservation engineering and the importance of conservation practices in agricultural systems. Fundamentals of soil water conservation Third AG310 CO2 To gain knowledge about erosion processes, soil erosion types, and factors affecting soil erosion in agricultural landscapes. CO3 To familiarize with various soil and water conservation techniques and structures used in agricultural land. CO4 To learn the design principles and criteria for different soil and water conservation structures and techniques. CO1 To get comprehensive understanding of dairy production, processing, and preservation techniques To get Proficiency in quality control and food safety practices specific to the dairy industry **Dairy Science** Third AG311 CO3 To be ability to operate and maintain dairy machinery and equipment To gain knowledge of dairy product development, packaging, and marketing strategies To understand the economic and environmental aspects of the dairy sector CO1 To understand ecology and environmental factors regulating insect population dynamics. To able to perform pest surveillance and forecasting. Third AG312 Fundamentals of entomology-II CO3 To understand the concepts, principles, aims, and tools of IPM. To understand the concepts of insect resistance and resurgence and their management. CO5 To understand Insecticide act, and perform spraying techniques and safety uses of pesticides. To know the Origin, geographical distribution, economic importance, soil and climatic requirements, varieties, cultural practices and yield of rabi crops Crop Production Technolology II (Rabi Crops) Fourth AG401 To identify weeds in rabi season crops. To understand the yield attributing characters of kharif crops andd Estimate yield of Rabi crops. Students will be acquainted with the knowledge of profitable crop production technology. Course content will help to students about ruminative crop production techniques. Practical Crop Production -(Rabi Crops) Fourth AG402 It helps to adopt diversified farming system according to available farming situation.



			CO4	It will assist to encourage the sustainable agriculture system.
			CO5	Profitable based farming system can we adopted with the help of course content
	Francisco Control		CO1	Student should be able to understand the concept of seed technology.
		Principle of Seed Technology	CO2	Student should be able to identify seeds identification based on morphological characters.
Fourth AG403	AG403		CO3	Student should get knowledge about reproduction in plants, seed structure and development.
			CO4	To understand the theoretical orientation of seed development.
			CO5	To familiarize with Seed Technology and morphology of seed and its development.
			CO1	To be able to understand about waste land and problematic soils in India and management of the soils.
			CO2	Students will be able to know about the different reclamation and management practices for the development of the soils.
m	10101	Problematic Soil & their Management	CO3	To understand different factors responsible for saline, sodic and acidic soils and their properties.
Fourth	AG404			To be able to use the fundamentals of soil science disciplines for the reclamation of degraded soils.
100			COS	To be able to demonstrate fundamental knowledge to identify problematic soils and associated problems and identify processes resulting in deterioration of
			CO3	physical and chemical properties.
100			CO1	To understand the concepts and techniques of plant biotechnology and their applications in crop plants.
		Fondamental of Blant Biotechnology	CO2	To understand the basics principles of plant sciences and molecular biology and their integration towards trait improvement in plants.
Fourth	AG405	Fandamental of Plant Biotechnology	CO3	To have a thorough knowledge of laboratory techniques used in plant biotechnology.
			CO4	To understand the industrial applications of biotechnology in developing new products.
			CO5	To acquire experimental skills to conserve plants for sustainability
			CO1	To understand the need of energy conversion and the various methods of energy storage
		0 115 00 71	CO2	To identify Winds energy as alternate form of energy and to know how it can be tapped
Fourth	AG406	Renewable Energy & Green Tech.	CO3	To explain big gas generation and its impact on environment
			CO4	To understand the geothermal &Tidal energy, its mechanism of production and its applications
			CO5	To illustrate the concepts of Direct Energy Conversion systems & their applications.
			CO1	To learn different production technology for ornamental Crops.
		Production Tech. of Ornamental Crops & MAP	CO2	To understand about the Importance and scope of Ornamental Crops, MAPs and Landscaping. To learn the techniques in Landscaping.
Fourth	AG407		CO3	To gain knowledge about production technology of cut flower, loose flower, medicinal and aromatic plants.
			CO4	To know about the uses of annuals, biennials, perennials tree, shrub, climbers and potted plants in landscaping.
			CO1	To understanding basic concepts in the area of entrepreneurship
			CO2	To understanding the role and importance of entrepreneurship for economic development
Fourth	AG408	Entrepreneurship Development & Business Communication	CO3	To understanding the stages of the entrepreneurial process and the resources needed for the successful development of entrepreneurial ventures
			CO4	To develop and strengthen the entrepreneurial quality, i.e. motivation or need for achievement.
			COS	To analyze environmental set up relating to small industry and small business
	TV TV		CO1	To understand roles of agro meteorology in agriculture and its relation to other areas of agriculture.
- 75			CO2	
Fourth	AG409	Introductory Agro- Meteorology & Climate	-	To develop weather based agro advisories to sustain crop production utilizing various.
routu	A0403	Change	CO3	To study about different climatic factors affecting crop growth and development
			CO4	To make proper understanding on crop-weather relationship.
			CO5	To assess productivity level of major crops during future climate-change scenario.
			CO1	To be able to understand analogy of computer.
		Agri Informatics	CO2	To know the use of IT application and different IT tools in Agriculture
Fourth	AG410		CO3	To know about the use of Decision support systems, Agriculture Expert System and Soil Information Systems in Agriculture
And a control			CO4	To acquaint the students with introduction to computer & operating system.
			CO5	To understand the data presentation, interpretation and graph creation.
			CO1	To know about the construction of hatchery
- 2	400		CO2	To gain knowledge about different sections / rooms in hatchery for efficient operations
Fourth	AG411	Poultry Production & Management	CO3	To be able to understand the handling and care of hatching eggs
and the same			CO4	To understand different procedures followed in incubation of chicken eggs in hatchery
			CO5	To gain knowledge of handling and Care of hatched chicks
			CO1	Student can able to understand about rainfed agriculture and its introduction, problem and prospects in India.
			CO2	Student can able to understand objective, principles and component of watershed management.
Fifth	Ag 501	Rain Fed & Dry Land Agriculture	CO3	To know about conservation of soil by adopting latest soil conservation techniques will help in obtaining higher production of rainfed crops.
	16 301	Non rea de ory canto Agriculture	CO4	To understand conservation of soil by adopting latest soil conservation techniques will help in obtaining higher production of Rainfed crops
			COS	To know about rainfall water can be use for a larger area by suitable watershed management techniques



		The second secon	CO1	Students learn importance of wild relative to produce new varieties of kharif crop.
			CO2	Learner learns Gene preservation method for further use to improve kharif crops.
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Fifth	Ag 502	Crop Improvement -I (Kharif Crops)	CO3	Learner learns to applies breeding method to improve kharif crops.
			CO4	Learner learns identification of resistance gene relate to kharif crop with high yield
			CO5	Learner learns new genetic approaches to achieve a definite ideotype of khaif crop.
			604	Familiarized with identification of different insect pest of field, horticulture, ornamentals,
		Posts of Crops & Store Croin & their	CO1	vegetables and stored grains at the field level.
Fifth	Ag 503	Pests of Crops & Store Grain & their management		Understand how insects affect animal and Plant health and agricultural production, and be
		monogenene	CO2	able to safely manipulate populations of beneficial and destructive species in habitats and in
				production agro-ecosystems with minimal environmental impact.
			CO1	The course provides ability to understand sales promotion and management in agricultural marketing, e-marketing, future marketing and role of contract
			COI	farming,SHG, marketing information, marketing intelligence in agricultural marketing.
Fifth	Ag 504	Agriculture Marketing, Trade & Prices	CO2	Enable students to gain knowledge on agricultural marketing, challenges and prospects for improving agricultural marketing system.
	1,6501	Agriculture Warketing, Trade & Prices	CO3	To understand how markets system affect farmers, consumers and intrmediaries.
			CO4	Develop stratergies through which a dyanamic market system will respond to creat win win situation for all.
10.00				Develop strategies through which a dyanamic market system will respond to creat win win situation for all.
			CO1	To get knowledge about green house technology, types of green houses and construction of green houses.
			CO2	Course will give the knowledge of Green house equipments, materials of construction for traditional and low cost green houses
Fifth	Ag 505	Protected Structure & Secondary Agriculture	CO3	This course will help the students to learn about Irrigation systems used in greenhouses, shade net house in protected cultivation.
			CO4	By this course student get the ofconcepts of cleaning and gradingMoisture measurement.
			CO5	Students will be able to understand the Material handling equipment, principle and working.
			CO1	The course will acquaint students with the general understanding of Plant diseases.
Fifth	Ag 506	Disease of and Horticulture crops & theit Management-I	CO2	To understand how to control the disease and management of the diseases of crops.
11111	WB 300		CO3	Student will able to apply their understanding in identifying of disease symptoms, pathogens
			CO4	To be able to understand the disease and about plant quarantine.
			CO1	To gain understanding of different manure and fertilizers used in different crops according to soilcondition.
Fifth	Ag 507	Production Technology of Fruit & Plantation Crops	CO2	To understand essentiality of plant nutrients and mechanism of nutrient transport to plant.
	76301		CO3	Students will evaluate the deficiency symptoms of plant nutrients.
			CO4	To be able to establish soil testing laboratory in future as a entrepreneur.
			CO1	To provide students with the basic knowledge of seed formation, development, and morphology, seed chemical composition.
		Communication Skill & Personality	CO2	Identify the elements of success of entrepreneurial ventures,
Sixth	Ag 508	Development	CO3	Evaluate the effectiveness of different entrepreneurial strategies,
			CO4	Explain the importance of marketing and management in small businesses venture,
	- Livy		CO5	Interpret their own business plan
			CO1	Skill to understand the concept of intellectual property rights.
100 00 100			CO2	Develops procedural knowledge to Legal System and solving the problem relating to intellectual property rights
Sixth	Ag 509	Intellectual Property Right (IPR)	соз	
1 10			COS	Skill to pursue the professional programs in Company Secretaryship, Law, Business, Agriculture, International Affairs, Public Administration and Other fie
			CO4	Establishment of Legal Consultancy and service provider.
			CO1	Students able to Identity and explain nutrients in foods and the specific functions in maintaining health.
			CO2	Students able to know the important pathogen and spoilage microorganism in foods.
Sixth	Sixth Ag 510	Principles Food Science & Nutrition	CO3	They can know about basic principles and practices of cleaning and sanitation in food preparation
23.55				operation.
			CO4	Student can Critically evaluates information on food science and nutrition issues appearing in the popular press.
7 1 15	lyell i Little i i		CO1	The concept of "doing the right thing in the right place at the right time" has a strongintuitive appeal which gives Students the ability to know about all
			COI	operations and crop inputs more effectively.
			CO2	Students able to understand more effective use of inputs results in greater crop yield and/or quality, without polluting
Sixth	Ag 511	Geo-Informatics & Nano Technology	CO2	the environment.
		The state of the s	CO3	Encourage the students to study of spatial and temporal variability of the input parameters
	10		203	using primary data at field level.



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				CO4	Creating awareness amongst farmers about consequences of applying imbalanced doses of
				20000000	farm inputs like irrigation, fertilizers, insecticides and pesticides.
				CO1	To understand the macroeconomics aspects of the economy as they affect the agricultural sector.
	Chuth	Ance	1-15 H-1	CO2	To explain the broad feature of Indian financial Institutions with instruments to control credit in the country.
	Sixth	Ag 55	Agri-Business Management	CO3	To Understand the conditions of financial markets and its impact in the economy.
				CO4	To be able to apply economics principles to understand the conduct and performance of the agricultural industry.
		<u> </u>		CO5	To be able to explain the functions, objectives and limitations of commercial bank and other financial institution.
	Caranth	0.701	Calafad Assistance 9 Watershad Management	CO1	Student can able to understand about rainfed agriculture and its introduction, problem and prospects in India.
	Seventh	D-791	Rainfed Agriculture & Watershed Management	CO2	Student can able to understand objective, principles and component of watershed management.
				CO3	To know about conservation of soil by adopting latest soil conservation techniques will help in obtaining higher production of rainfed crops.
				CO1	To be able to understand about Agro forestry and Silviculture, objectives and potential.
	Seventh	D-792	Silviculture and Agro forestry	CO2	To know about different Agro-forestry Systems, Subsystem, Practices, AFS Classification, Agro-forestry Systems on nature of Components.
				CO3	To Impart knowledge about forest, status of Indian forest and their role in farming system.
				CO4	To analyze the distinction between Agro forestry and Social Forestry.
				CO1	To gain understanding of production technology for various important medicinal crops.
	6 4	5.702	Production technology of medicinal and	CO2	To gain understanding of the study of herbal industry for medicinal crops
	Seventh	D-793	aromatic crops	CO3	To able to understand the systems of cultivation and organic production and able to classify the medicinal crops,
				CO4	To explain the Indian system of medicine, indigenous Traditional Knowledge, IPR issues.
				CO5	To be able to identify various types of problematic soils in India, along with their occurrence and formation.
				CO1	To be able to identify various types of problematic soils in India, along with their occurrence and formation.
		D-794	Management of Problems soil and water	CO2	To understand about the management strategies adopted for the reclaiming of salt-affected soil, waterlogged soil, and eroded soils.
B.Sc. Agriculture	Seventh			CO3	To able to understand distribution of wastelad in india and importance of their management.
				CO4	Students will be able to identify the causes and factors that contribute to wasteland conversion in India.
				CO5	To be able to understand the management of soil in Arid and Semi-Arid region of India.
			Dairy chemistry and animal nutrition	CO1	To be able to underastand about milk composition and milk preservation.
	4 10 10 1	D-795		CO2	To gain understanding about milk chemistry.
	Seventh			CO3	To be able to classify animal nutrition on the basis different ways.
				CO4	To understand the metabolism of different biochemicals.
				CO5	To understand role of micro molecules in animal feeding.
		D-796		CO1	To understand the basic concept of windows, operating system and various applications.
	Seventh		Computer application	CO2	To understand basic knowledge MS excel and their applications.
				CO3	To be able to understand the basic idea power point presentations and how to use it like creation of PPT on any topic.
				CO4	To understand the basic concept of windows, operating system and various applications.
				CO1	Students will get an on campus training from various faculties before step into the village attachment and Agro-industrial attachment.
	Eighth	D-891	Rural Agricultural Work Experience and Agro- industrial Attachment (RAWE &AIA)	CO2	To enable the students to understand the issues related to farming and rural development in a natural setting on real-time basis.
1 1 1 1 1 1	23.6			CO3	The course also provides opportunities for the students to understand and learn about the functioning of the extension organizations.
				CO4	Course provides opportunities for the students to attach with the Agri related industries and make them know about the functioning them.
				CO 1	To Understand the procedure of accounting, final account and Depreciation concept.
				CO 2	To Understand the concept of negotiable instruments
Bachelor of Commerce (Honors)	First	111	Financial Accounting	CO 3	To Apply the various approaches regarding bank reconcilation statement
	United the second			CO 4	
				CO 5	To Understand the Basic concept of management.
				CO 1	To Understand basic functions of management.
Bachelor of Commerce (Honors)	First	112	Principles of Management	CO 2	To Apply the management functions in integrated prespective.
an enter of those is to see the property of the second of				CO 3	To Apply the theories of motivation and Leadership Styles
				CO 4	To understand the basic concepts of business environment.
				CO 1	To Understand the various economic systems & the scope of planning with Indian perspective.
and her will and		202		CO 2	To understand the roles of government and various sectors.
Pachelor of Continence (Honors)	First	113	Business Environment	CO 3	To understand the international Business Environment.
5 V /3/	3			CO 4	To apply socio-culture environment's factors that may impact businesses
S(MIT)			And the second of the Alberta Control	CO 5	To Understand the basic definitions and concepts of Elementary mathematics.
(%) (VIII) (%)	N F P			CO 1	To Apply the knowledge in mathematics (algebra, matrices, calculus) in solving business problems
Sachelor of Commerce (Monors)	First	114	Business Mathematics	CO 2	To Understand the basic concepts of Financial Mathematics
A. A.		***	Sasmass Matricinates	CO 3	To Analyze and demonstrate mathematical skills required in mathematically intensive areas in
				003	Economics & Business

				CO 4 17-	describe Consider and Tables and Tables and the Market State of the Consideration of the Cons
					describe Secondary and Tertiary sector activities with reference to LPG .
2.1.1.62				CO 3 To	precognize Entrepreneurial opportunities in contemporary business environment.
Bachelor of Commerce (Honors)	Second	211	Business Organization		discuss various forms of business and to review various operational and functional aspects of business.
					explain various Management Thoughts and approaches to Management .
				CO 5 To	Identify various sources of business finance for different Tenure .
				CO 1 To	discuss the various Stock Exchanges in India.
				CO 2 To	Illustrate the accounting procedure for patents, copyright & Mining sectors sectors.
Bachelor of Commerce (Honors)	Second	212	Advanced Financial Accounting		Illustrate Multi-purpose Store and Franchisee Accounting mechanism.
					Implement the accounting procedure for Human Resource Accounting & Inflation.
				CO1 To	Implement the accounting procedure of Deferred Payment Systems.
				CO 2 To	Explain the basic concepts of entrepreneurship, & Role of Entrepreneur in economic growth.
Bachelor of Commerce (Honors)	Second	213	Business Entrepreneurship	CO 2 To	Explain the basic behavior of Entrepreneur w.r.t. change, innovation and society
		7/4/2016	Sources entrepreneurally		Demonstrate the ideas for prmotion of new venture, & development of new business plans
					Interpret the various sources of finance as per the duration
					Estimate the requirement of growth i.e. capacity enchancement and expansion.
					explain the basic concepts of business statistics.
Jachelor of Commerce (Honors)	Second	214	Business Statistics	CO 2 To	Interpret the business aspects using the concepts of Time-Series Analysis and Index Numbers.
				CO 3 To	Illustrate various measures of central tendency & Dispersion, Correlation and their implication in business problems.
					Choose appropriate decisions by applying the Concept of Probability & Sampling
achelor of Commerce (Honors)					review basic concepts of Indian Contract Act 1872
	Third	311	Business Regulatory Framework		review the various types of contracts & special contracts
					review the basic concepts of sales of goods act 1930
					review the main provisions of consumer protection act 1986
					review the main provisions of Limited Liability Partnership Act 2008.
		312	Business Economics		explain the basic concepts of Economics, & its problems
achelor of Commerce (Honors)	Third				explain the law of demand & its elasticity
or commerce (nonors)	Inira				explain the concept of utility of demand and consumer behavior
					o explain the cost concepts and production function
				CO 5 To	Illustrate the cost concept to determine the price in different market structures.
		313			describe classification and installation of a costing system
Bachelor of Commerce (Honors)	Third		Cost & Management Accounting	CO 2 To	describe the elements of cost i.e. Material, Labour and Overheads
(101013)			Cost & Management Accounting		Practice different methods of costing
				CO 4 To	Practice the tools of budgetary contral system
				CO 5 To	Practice standard costing and marginal costing technques
					explain processes of business communication and its barriers.
Bachelor of Commerce (Honors)	Third	314	Business Communication		Practice the Business Correspondence.
	Timu	314	Business Communication	CO3 To	explain the process of report writing and citation of lietrature.
					Practice Power Point Presentations
				CO 5 To	Practice Electronic Business Communications like e-mail, messaging, video conferencing, social networking etc.
V					explain the working and functioning of Insurance Sector
Bachelor of Commerce (Honors)	Fourth	411	1		explain the findamental principles of Insurance
or commerce (nonors)	Fourth	411	Insurance & Risk Management		explain the legal aspects of various types of General Insurance
					explain "Risk Management Practices" for controlling loss
					apply the procedure to compute Insurance Premium
					understand the basic concepts and definitions under the Income Tax Act, 1961
achelor of Commerce (Honors)	Fourth	412		CO 2 Exp	plain the various deductions allowed from Gross Total Income & the rules to determine the residential status of assessee
	Fourth	412	Income Tax Law & Account		Acquire knowledge about Computation of Income under different heads of Income of Income Tax Act, 1961
The second second					plain the rules for set-off & carry forward of losses.
to the second				CO 5 Exp	plain the procedure of assessment, payment and collection of tax. Practice the rules to compute Income Tax Liability & ITR filling.
Con the				CO 1 To	Explain the concept , the regulatory aspects and the broader procedural aspects of Company, under Companies Act 2013
Bacheler of Commerce (Honors)	Fourth	413	Company Law		Explain the basic legal documents and their usage essential for operations and management of company.
0	Company Law			review the various compliances of companies act.	
5 W/2 1511		the state of the s		discuss the framework of dividend distribution.	
1				CO 1 To	explain the concept and chilenges of HRM
				CO 2 To	understand HRP including its dimensions

nelor of Commerce (Honors)	Fourth	414	Human Resource Management	CO 3	To review various training and development methods
	Harrison H.			CO 4	To evaluate performance appraisal and compensation techniques
				CO 5	To assess maintenance of employees and understand various contemporary issues in HRM
				CO 1	To explain the concept of business and business organization.
Dashalas of Cassanas	et	CO10101T	Products Occasional	CO 2	To apply the knowledge on how to establish new business unit, plant location & plant layout of business units.
Bachelor of Commerce	First	C010101T	Business Organization	CO 3	To Solve the problems in modern business.
				CO 4	To evaluate the concept of business combinations and its types so that its relevance could be understood.
A DESCRIPTION OF THE PERSON OF				CO 1	To explain the basic concepts of business statistics.
				CO 2	To explain various analytical concepts of Business Statistics
Bachelor of Commerce	First	C010102T	Business Statistics	CO 3	To Illustrate various measures of central tendency & Dispersion, Correlation and their implication in business problems.
				CO 4	To analyze the business aspects using the concepts of Time-Series Analysis and Index Numbers.
				CO 5	To Propose appropriate decisions for business problems
				CO 1	To explain basic concept of business communication and their barriers.
				CO 2	To apply the various aspect of verbal and non-verbal communication skills.
Bachelor of Commerce	First	C010103T	Business Communication	CO 3	To apply the presentation and writing skills.
				CO 4	To compose appropriate organizational formats and channels used in business communication.
				CO 1	To explain the concept of Food, Nutrition and Hygiene
				CO 2	To review awareness of food hygiene regulations.
Bachelor of Commerce	First	Z010101	Food, Nutrition & Hygiene	CO 3	To identify awareness regarding the common health issues in society & have clarity on the special requirement of food during an illness
occine of confinerce	rust	2010101	1000, Huthdolf & Hygielle	CO 4	To Plan a diet for metabolic diseases based on the dietary modification.
				CO 5	To manage the component of food system and the relationships between nutritional health and food selection
				CO1	To explain the Basic concepts of Economics, Demand Analysis & Elasticity
Bachelor of Commerce	First	Q10033	Basic Economics	CO 2	To review the Economic Systems To explain the cost concepts and production function
Bachelor of Commerce				CO 3	
				CO 4	To Illustrate the cost concept to determine the price in different market structures.
				CO 5	To Practice the methods to compute National Income
				CO 1	To Explain financial goals of investors on basis of different asset classes and risk involved with them
		V0001068	Introduction to Mutual Fund Part-I	CO 2	To describe mutual fund as an investment vehicle, its various types, and its evolution in India as an industry.
Bachelor of Commerce	First			CO 3	To review the structure of mutual fund industry, the concept of Asset Management Company (AMC) and its functioning.
				CO 4	To review the regulatory framework of mutual funds with emphasis on the role and functioning of AMFI
				CO 5	To review the role of SEBI in mutual fund sector, code of conduct and grievance redressal mechanism.
Here and the second second				CO 6	To Illustrate the skill set to build a career in mutual funds industry.
				CO 1	To identify nature of managerial job in terms of principles, process, roles and evolution of Management.
Bachelor of Commerce	Second	C010201T	Business Management	CO 2	To apply the basic functions of management and helping learners evolve an integrated perspective of the management functions.
	Second		Dashitas managament	CO 3	To debate the various motivational theories and leadership styles that are going to be helpful in academics and industry.
				CO 4	To assess the environment of the organization.
				CO 1	To list Royalty, Insolvency Accounts and Insurance Claims and become competent to examine the related issues.
THE RESIDENCE OF THE PARTY OF T				CO 2	To outline the accounting procedure of Deferred Payment Systems.
Bachelor of Commerce	Second	C010202T	Financial Accounting	CO 3	To describe Accounting concepts and conventions, GAAP, Accounting Standards, Double Entry System and Final Accounts.
	31-310,330			CO 4	To illustrate formulation of financial statements as per Accounting Standards.
				CO 5	To solve Multi-purpose Store and Franchisee Accounting mechanism.
				CO1	To list the significance of Information Technology in Accounting.
Bachelor of Commerce	Second	C010203P	Computerized Accounting	CO 2	To outline the integration of Accounting Information System (AIS) and Computer.
				CO 3	To illustrate the usage of computerised accounting software in generating various accounting statements and reports.
				CO 1	To explain the basic concept of E-Commerce
				CO 2	To review the prevailing E-Governance models
Bachelor of Commerce	Second	C010204T	Essentials of E-Commerce	CO 3	To Illustrate the B2C model of E-Commerce
				CO 4	
	The second second			CO 1	
				CO 2	To describe mutual fund as an investment vehicle, its various types, and its evolution in India as an industry.
rute of A	HO THE			CO 3	To review the structure of mutual fund industry, the concept of Asset Management Company (AMC) and its functioning.
Bachelor of Commerce	Second	V0001069	Introduction to Mutual Fund Part-II	CO 4	To review the regulatory framework of mutual funds with emphasis on the role and functioning of AMFI
1311				CO 5	To review the role of SEBI in mutual fund sector, code of conduct and grievance redressal mechanism.
MTIE				CO 6	To Illustrate the skill set to build a career in mutual funds industry.
1411 /8/					To review the skill needed to assess the ill or injured person.
1511				CO1	To review the skill needed to assess the ill of injured person.

				CO 2	To review skills to provide CPR to infants, children and adults.
chelor of Commerce	Second	Z020201	First Aid & health	CO 3	To review the skills to handle emergency child birth
	Scond	LULULUI	Thursday realth	CO 4	To discuss Basic sex education help young people navigate thorny questions responsibly and with confidence
				CO 5	To review the skills to guage Mental Health status and Psychological First Aid
				CO 6	To explain natural changes of adolescence
				CO 1	To Explain the concept , the regulatory aspects and the broader procedural aspects of Company, under Companies Act 2013
Bachelor of Commerce	Third	C010301T	Company Law	CO 2	To Explain the basic legal documents and their usage essential for operations and management of company.
		00200021		CO 3	To review the various compliances of companies act.
				CO 4	To discuss the framework of dividend distribution.
Y I				CO 1	To explain the concept of Cost Accounting and various elements of cost.
Bachelor of Commerce	Third	C010302T	Cost Accounting	CO 2	To illustrate the accounting of material, labour and overheads cost.
Dadricio: Or Commerce	Hillio	C0103021	Cost Accounting	CO 3	To illustrate the cost of products, jobs, contracts, processes and services.
				CO 4	To differentiate the cost accounting book keeping systems and reconciliation of cost and financial account profits
				CO 1	To review basic concepts of Indian Contract Act 1872
				CO 2	To review the various types of contracts & special contracts
Bachelor of Commerce	Third	C010303T	Business Regulatory Framework	CO 3	To review the basic concepts of sales of goods act 1930
				CO 4	To review the main provisions of consumer protection act 2019
				CO 5	To review the main provisions of Limited Liability Partnership Act 2008 & U.P. shoprs & commercial establishment act
		FRI -		CO 1	To Explain financial goals of investors on basis of different asset classes and risk involved with them
				CO 2	To describe mutual fund as an investment vehicle, its various types, and its evolution in India as an industry.
Dacholas of Co	Third	1/0001050	Introduction to Mutual Fund Part-II	CO 3	To review the structure of mutual fund industry, the concept of Asset Management Company (AMC) and its functioning.
Bachelor of Commerce		V0001069		CO 4	To review the regulatory framework of mutual funds with emphasis on the role and functioning of AMFI
				CO 5	To review the role of SEBI in mutual fund sector, code of conduct and grievance redressal mechanism.
				CO 6	To Illustrate the skill set to build a career in mutual funds industry.
			Fundamentals of Indian Economy	CO 1	To Explain the present and future prospects of Indian Economy
		Q10033		CO 2	To Explain the impact of 5 years plan on Indian Economy
Bachelor of Commerce	Third			CO 3	To Explain the problems of Indian agrculture
				CO 4	To Explain the Importance of financial system for economy
				CO 1	To explain the interplay of markets, ethics, and law.
	Third	Z030301		CO 2	To describe the challenges faced by individuals to counter unethical issues
Bachelor of Commerce			Human Values & EVS	CO 3	To discuss the core concept of business ethics, anti-corruption & morally articulate solution to management issues
				CO 4	To discuss the sustainable development of better environment.
				CO 5	To explain the efforts taken by India, UN & other International bodies to save environment and sustainable development
				CO 1	Explain the basic concepts of Income Tax Act & the rules to determine the residential status of assessee.
	Fourth			CO 2	Explain income from different head of income & deductions allowed from Gross Total Income.
Bachelor of Commerce		C010401T	Income Tax Law & Account		Explain the rules for set-off & carry forward of losses.
bachelor of commerce			Income Tax Law & Account	CO 3	
				CO 4	Explain the procedure of assessment, payment and collection of tax.
				CO 5	Practice the rules to compute Income Tax Liability & ITR filling.
				CO 1	Explain the basic concepts of marketing and consumer behavior
Bachelor of Commerce	Fourth	C010402T	Fundamentals of Marketing	CO 2	Explain the concept of segmentation, targeting & positiong of Product.
	A773335555			CO 3	Describe the pricing method, policies and various tools of promotin
				CO 4	Describe the distribution channels like wholesale, retailing, logistics & social media
	10			CO 1	Explain the concept of digital marketing channels & plans
Bachelor of Commerce	Fourth	C010403P	Digital Marketibng	CO 2	Practice CRM using web analytics and social media
	, out th	00101001	Digital Marketining	CO 3	Design the SEO content, & googleadwords account
	Photosoften			CO 4	Design Youtube advertising and budgeting
				CO 1	To describe concept of entrepreneur, entrepreneurship, using real life examples.
Bachelor of Commerce	Fourth	C010404T	Fundamentals of Entrepreneurship	CO 2	To describe the government policies for the development of entrepreneurship
outlief of confinerce	rourui	C0104041	runuamentais of Entrepreneurship	CO 3	To explain the various method for the promotion of a venture
	E W HOLE			CO 4	To explain the role of financial institutions in financing of MSME
itute of	1			CO 1	To Explain the basic concept of Physical Education
1/ Siller Of W	1			CO 2	To Explain fitness, wellness, weight management etc.
Bachelor of Commerce	Fourth	Z040401	Physical Education & Yoga	CO 3	To Explain the relation of yoga with mental health
A Dimb	BI		AND THE SHOP	CO 4	To Practice traditional games of India
(IVIII)	0			CO 5	To Practice various Yoga asanas & Aerobics

	Was File			CO 1	To Explain the key terminologies and concepts related to the share market
	tall of the last	WWww.compacts		CO 2	To explain the functions of major stock exchanges globally.
achelor of Commerce	Fourth	V0001070	Introduction to Share Market Part-I	CO 3	To explain various indicators to catch trends and patterns.
				CO 4	To explain the financial news and reports to make informed investment decisions w.r.t. risk and return characteristics of market
				CO 5	To Analyze the different investment strategies, such as value investing versus growth investing.
				CO 1	To Illustrate the accounting treatment of issue, forfeiture, re-issue Shares , debentures & Redemption of Preference shares & Debentures.
chelor of Commerce	Fifth	C010501T	Corporate Accounting	CO 2	To Illustrate the general rules for preparation of final accounts & statement of Profit & Loss.
	1.000	00103011	corporate Accounting	CO 3	To Illustrate the accounting treatment of holding and subsdiary company.
				CO 4	To Illustrate the accounting treatment Amalgamation of companies.
				CO 1	To explain the history of Indirect tax in India & current scenario
	- 10			CO 2	To explain some fundamental point of GST like TOS, POS and value of supply.
chelor of Commerce	Fifth	C010502T	Goods and Service Tax	CO3	To Interpret the Payment, Adjustment and return filing rules of GST.
				CO 4	To explain the procedure of new registration.
				CO 5	To explain the procedure for accounting of Invoice, Audit & Penalties
				CO 1	To explain the basic decsions of business finance i.e. Investing, Financing & Dividend
				CO 2	To explain the sources of funds for different tenure
chelor of Commerce	Fifth	C010503T	Business Finance	CO 3	To explain the basic concept of time value of money
				CO 4	To explain the structure of capital market and money market in India
				CO 5	To demonstrate the effects of cost of capital on capital structure
				CO 1	To explain the role of money in an economy
abalas af Camana				CO 2	To review the basic structure of Indian Banking system
chelor of Commerce	Fifth	C010505T	Money Theory & Banking in India	CO 3	
				CO 4	To explain the functions, instruments of monetary and credit control excercised by RBI
	No. 19 July			_	To explain the structure of development banks and other NBFIs in Indiaan Economy
27 (2012) 12/27	Fifth	2050501	Analytical Ability & Digital Awareness	CO 1	To identify the analogy, number system, set theory, number system and puzzles.
chelor of Commerce				CO 2	To explain the basics of web surfing and cyber security
				CO 3	To Practice Syllogism, figure problems, critical and analytical reasoning
				CO 4	To Practice with word processing application and worksheet
	Sixth	C010601T	Accounting for Managers	CO 1	To Explain the basic concept of Management Accounting
chelor of Commerce				CO 2	To Explain the basic concept of Financial Satement analysis
				CO 3	To Apply the Tools of Financial statement analysis
				CO 4	To apply the Cost Controlling tools like budgetary control and standard costing
				CO 1	To Explain the basic concepts of auditing.
chelor of Commerce	CLAS	C010602T		CO 2	To Explain the practicality of standards of auditing.
chelor of commerce	Sixth		Auiditing	CO 3	To Explain concepts of audit for limited companies.
				CO 4	To Explain the powers, duties, liabilities of an auditor.
				CO 5	To Explain the various types of audit such as internal audit, cost audit, tax audit & statutory audit
				CO 1	To understand the structure and functions of financial markets, including primary and secondary markets.
chelor of Commerce	Sixth	C010604T	Financial Institutions & Marketing	CO 2	To understand the concept of new issue market, and role of various players involved.
		C010604T	rinancial institutions & Marketing	CO 3	To understand the role and functions of Stock Exchanges, & functioning of the intermediaries.
				CO 4	Understand the regulatory bodies as SEBI, NCLT, NCLAT & mechanisms aimed at safeguarding investors
				CO 1	To explain the ethics, moral and values in business and management
chelor of Commerce	Sixth	COLOGOGY	Durings Fables 9 C	CO 2	To explain contemporary culture and ehitcal value system
or commerce	Sixtii	C010606T	Business Ethics & Corporate Governance	CO3	To explain contemporary laws and ethics for business and society
				CO 4	To explain corporate governance w.r.t. global issues.
		THE PARTY OF			To understand the concept of Personality.
				CO 2	To learn what Personal Grooming pertains.
				CO 3	To learn to make good resume and prepare effectively for an interview.
chelor of Commerce	Sixth	Z060601	Communication Skills & PD	CO 4	To learn to make good resume and prepare effectively for an interview. To learn to perform effectively in group discussions.
or commerce	300/50		Service and the service and th	CO 5	To explore communication beyond language.
	13 14 11		1000		
	Lie Villa	Tie	126	CO 6	To learn to manage oneself while communicating.
		1181	131		To acquire good communication skills and develop confidence.
chelor of Commerce	Sixth	C010607R	Millior Research Project	CO 1	To Gain knowledge of issues & challenges of Industry
		1121			Learn to present report of the selected industry
		100	18	CO 1	To understand the concepts related to business management.
arhalor of Rucinace		11 000		CO 2	To understand the complexities associated with management and integrate the learning in handling these complexities.

First	DDN 101	Fundamentals of Management	CO 3	To apply the roles, skills and functions of practical business.
			CO 4	To apply the various motivational theories and leadership styles in business management.
			CO 5	To analyze effective application of fundamental knowledge to solve organizational problems and develop optimal managerial decisions.
			CO 1	To understand the nature, functioning and design of organization as social collectives.
Flori	DDA 402	0	CO 2	To understand the cause and effect of different behaviors in an organization.
THISC	BBA-102	Organizational Benavior	CO 3	To analyze the behavior of individual and groups in an organization.
			CO 4	To contrast the reciprocal relationship between the organizational leaders and their subordinates.
			CO 5	To develop conceptual understanding of change and how to implement it.
THE RESERVE		with the two property	CO 1	To apply the various economics principles to make effective economic decisions under conditions of risk and uncertainty.
Ciect	DDA 103	No	CO 2	To analyze the concepts of demand & supply for various changing situations in industry for better utilization of resources.
FIISE	BBA-103	Managerial Economics		To evaluate the different market structure and pricing strategies.
				To analyze the macroeconomic concepts like business cycle & how it affect the business & economy.
				To make the students familiar with BOP & inflation.
			CO 1	To understand accounting concepts, principles, & conventions for routine monetary transaction.
			CO 2	To understand 'International & Indian Accounting Standards".
First	BBA-104	Accounting & Financial Analysis		To apply the concept to prepare financial statements and cash flow in accordance with GAAP.
				To analyse, interpret and communicate the information contained in basic financial statements.
				To know the concept an dyreparation of 'Fund Flow Statement'.
0			203	MUSIC CONTRACT CONTRA
			CO 1	To understand basic aspect of Indian Contract Act and Sale of Good Act.
Class	DDA 405		CO 2	To understand basic aspect of Partnership Act .
riist	BBA-105	Business Law		To understand basic aspect of Negotiable instrument Act.
				To analyze various types of contracts and different forms of negotiable instrument.
				To familarize the students with application of business laws.
Del N				To understand the basic of business essentials and ethical practices of business.
First	BBA-106	Business Organization & Ethics		To understand the process of developing new business including plant location, layout and promotion of business.
				To understand the various forms of business organisation.
				To know the social responsibility of business.
			CO 5	To make the students aware with various philosophies of business.
			CO 1	To understand the basics aspects associated with structure and function of ecological systems.
Flora	004 000		CO 2	To understand the importance of natural resources and the need of their conservation for a sustainable environment.
First	BBA-008	Environmental Studies		To understand their roles, responsibilities as a citizen, consumers and environmental actors in a complex interconnected world.
				To analyze the impact of human and pollution on environment.
				To write and communicate effectively about environmental issues and problems.
			CO 1	To gain knowledge of basic concepts of business statistics.
Second	RRA-201	Ouantitative Techniques for Pusicas-	CO 2	To inculcate practical understanding of various analytical tools.
Second	55A-201	Quantitative recrimiques for Business	CO 3	To compute various measures of central tendency & Dispersion, Correlation and their implication in business problems.
7			CO 4	To analyze the business aspects using the concepts of Time-Series Analysis and Index Numbers.
	The state of the s		CO 5	To take appropriate decisions by applying the cocept of basic probability.
			CO 1	To understand basic concept of business communication and their barriers.
Second	BBA-202	Rusiness Communication	CO 2	To apply the various aspect of verbal and non-verbal communication skills.
Second	00A-202	Business Communication	CO 3	To analyze critical thinking by designing and developing presentation and writing skills.
a remain			CO 4	To create appropriate organizational formats and channels used in business communication.
0 01306	3.50	P/ S	CO 5	To understand the various modern forms of business.
	12 V	2 3	CO 1	To develop the understanding of the concept of human resource management and to understand its relevance in organizations.
Sonand	1/1 /		CO 2	To develop necessary skill set for application of various HR issues
Second	BBA 203	Januarian Resource Management	CO3	To analyse the strategic issues and strategies required to select and develop manpower resources.
The second secon	100	*/I		To integrate the knowledge of HR concepts to take correct business decisions.
	First First First	First BBA-103 First BBA-104 First BBA-105 First BBA-106 First BBA-008 Second BBA-201	First BBA-103 Managerial Economics First BBA-104 Accounting & Financial Analysis First BBA-105 Business Law First BBA-106 Business Organization & Ethics First BBA-008 Environmental Studies Second BBA-201 Quantitative Techniques for Business Second BBA-202 Business Communication	First BBA-102 Organizational Behavior C0 2 C0 3 C0 4 C0 5 C0 1 C0 5

	1		1	CO 5	To add the day of the day
				CO 1	To understand the concept of HR analytics. To understand and explain the nature and scope of marketing.
Bachelor of Business				CO 2	To demonstrate how knowledge of maketing.
Administration	Second	BBA-204	Marketing Management	CO 3	To demonstrate how knowledge of marketing concepts and environment can be applied to take marketing decision making. To be able to comprehend the knowledge of Consumer Behavior in taking marketing decision.
Administration	550 Spec 386			CO 4	To understand the concept of marketing mix.
				CO 5	To apply the knowledge of marketing research in identifying characteristics of consumers to take marketing decisions.
					To identify and evaluate the complexities of business environment and their impact on the business.
				CO 1	the complexities of desiress environment and their impact on the business.
Bachelor of Business Administration	Second	BBA-205	Business Environment	CO 2	To analyze the relationships between Government and business and understand the political, economic, legal and social policies of the country.
CANYLOGIA DA PARADA				CO 3	To analyze current economic conditions in developing emerging markets, and evaluate present and future opportunities.
			The same of the sa	CO 4	To understand the Industrial functioning and strategies to overcome challenges in competitive markets.
				CO 5	To conduct the SWOT analysis of business.
	14 1				To gain knowledge of basic concepts / fundamentals of computer.
De-Later Co.				CO 1	
Bachelor of Business	Second	BBA-206	Fundamentals of Computers	CO 2	To understand the various types of Input and Output devices.
Administration		DDN-200	ondomentals of computers	CO 3	To understand the various types of memory used in computer systems.
				CO 4	
				CO 5	To gain knowledge of Operating systems and also basic Knowledge of Internet and search engines.
				CO 1	To inculcate the important of softskills among the students.
Bachelor of Business	Count	BBA-207	Assessment of Soft Skill Based on Presentations/GD/Personality Traits	CO 2	To involve the students among various management games.
Administration	Second			CO 3	To imrove the overall communication of the students.
				CO 4	To develop the presentation skills among the students.
				CO 5	To develop the social attitude among the students.
			Advertsing Management	CO 1	To apply the ways that communicate through advertising and influence consumers.
Bachelor of Business		BBA-301		CO 2	
Administration	Third			CO 3	To understand the decisions which need to be made in budgeting and planning for promotion.
				CO 4	To set promotional objectives and identify their relationship with the strategic plan and discuss a range of creative strategies in advertising.
				CO 5	To understand the concept of pu8blic relation and publicity.
Bachelor of Business			TY THE RESE	CO 1	To understand the theories and concepts of leadership and teamwork in an organization.
Administration	Third	BBA-302	Team Bulding and Leadership	CO 2	To understand the techniques and practical understanding of how to apply theories and concepts to improve leadership skills.
				CO 3	To be aware of the importance of teamwork and development of skills for building effective teams.
				CO 4	To be able to analyse different personality traits.
				CO 5	To understand the group dynamics.
				CO 1	To acquaint the students with past, present and future of Indian economy.
Dankeles of D				001	
Bachelor of Business	Third	BBA-303	Indian Economy	CO 2	To analyse the impact of five year plans on Indian Economy.
Administration	300			CO 3	To analyse the role of small scale industries in boosting the Indian Economy.
	STATE OF STREET		A STATE OF THE STA	CO 4	To analyse the importance and role of commercial banks and other financial institutions in enhancement the economy.
			TOXIDO DE LO COMPANION DE LA C	CO 5	To gain the knowledge of agriculture economics.
Bachelor of Business				CO 1	To understand the basic concepts of CRM and CRM system.
Administration	Third	BBA-304	Customer Relationship Management	CO 2	To understand the CRM process and developing CRM strategy and measurement of service quality.
radininsu auton	La La Contra de la			CO 3	To apply the process and strategy in choosing and implementing new CRM system in an contemporary scenario.
			The state of the state of the state of	CO 4	To analyze the role of sales force automation customer relationship management.
				CO 5	To understand the five phases of CRM projects.
	INE PI			CO 1	To understand the basic concepts and technologies used in the field of management information system.
Bachelor of Business	J. S. C.	DDA 20F		CO 2	To apply the processes of developing and implementing information systems in the contemporary scenario.
Administration // 5/	A LINING SA	BBA-305	Management Information System	CO 3	To analyze the role of information systems and strategic management in an organization.
la la	MIT S			CO 4	To evaluate how the various information systems work together to accomplish the objectives of an organization.
118	18/			CO 5	To understand the concept of decision support system and AI. To understand the basic concepts of Income Tax Act & the rules to determine the residential status of assessee.
				CO 1	

Administration	Third	BBA-306	Income Tax Law and Practice	CO 3	To apply the rules of Income Tax to compute income under different heads.
				CO 4	To understand the aggregation of income after set-off & carry forward of losses.
				CO 5	To understand the various deductions allowed from Gross Total Income.
				CO 1	To understand consumer behaviour in an informed and systematic way.
lachelor of Business				CO 2	To demonstrate how knowledge of consumer behaviour can be applied to marketing.
Administration	Fourth	BBA-401	Consumer Behavior	CO 3	To relate internal dynamics such as personality, perception, learning, motivation and attitude to consumer choices.
Administration				CO 4	To able to use appropriate research approaches including sampling, data collection and questionnaire design for specific consumner behaviour.
				CO 5	To enable the students in designing and evaluating the marketing strategies based on fundamental theories.
				CO 1	To understand the different basic concept Corporate Finance.
Bachelor of Business			A Day of the last	CO 2	To use and apply different models for firm's optimum dividend payout.
Administration	Fourth	BBA-402	Financial Management	CO 3	To apply different approaches to manage working capital.
Auministration				CO 4	To analyze capital structure on the basis of cost of capital.
			CO 5	To evaluate long term investment decisions with the help of time value of money.	
		CO 1	To gain an understanding o basics of production management.		
Bachelor of Business		CO 2	To understand the skills necessary to analyse a production systems.		
Administration	Fourth	BBA-403	Production & Operation Management	CO 3	To understand the concept of plant location and layout.
- MINIMAL COLOTT				CO 4	To understand how ERP and MRP systems are used in managing operations.
	ATT ATT			CO 5	To understand the quality system for operations and production.
				CO 1	To identify the dealer and customer oriented sales distribution techniques.
Bachelor of Business		BBA-404	Sales & Distribution Management	CO 2	To explain the steps involved in sales force management.
Administration	Fourth			CO 3	To conduct pre-testing, post testing and concurrent testing of advertisements to determine their effectiveness.
				CO 4	To develop economic way of thinking in dealing with practical sagles distribution problems and challenges.
				CO 5	To understand various distribution networks.
	Jil		Research Methodology	CO 1	To understand the basic concepts of research and its methodologies.
Bachelor of Business	Fourth	BBA-405		CO 2	To understand various kinds of research and its objectives.
Administration				CO 3	To understand measurement & scaling techniques, data analysis-and hypothesis development techniques.
				CO 4	To apply the research tools and techniques likes, questionnaire, sampling, data analysis for conduction research.
				CO 5	To know how to write project reports.
				CO 1	To understand the basics of entrepreneurship and role of entrepreneurship in Indian economy.
Bachelor of Business		BBA-406	Entrepreneurship & Small Business Management	CO 2	To understand the concepts of entrepreneurial development programme .
Administration	Fourth			CO 3	To apply the different methodologies in executing project ideas.
Administration				CO 4	To apply the different methods of tansportation and assignment problem.
				CO 5	To understand the process of starting the small industry.
				CO 1	To familarize and equip the students with basic computer knowledge & skills.
Bachelor of Business				CO 2	To understand the essentials of Internet.
Administration	Fourth	BBA-407	Computer Oriented Practical & Viva-Voce	CO 3	To make the students aware of mobile computing and its techniques.
	100000000000000000000000000000000000000			CO 4	To familiarize the students with online transactions.
				CO 5	To make the students understand the network security and its applications.
				CO 1	To understand the basic quantitative aptitude and general mathematics.
Bachelor of Business	Fifth	DDA FOI	Arithometic Autitude	CO 2	To understand the various problems related to ages, calender, clock, Time & work etc.
Administration	riith	BBA-501	Arithematic Aptitude	CO 3	To understand the concepts of Data Interpretaions.
			The state of the s	CO 4	To gain knowledge of Matrix and its types in detail.
				CO 5	To understand the various charts and bar diagrams.
To olut				CO 1	To gain knowledge of basic concepts of reasoning and logocal thinking.
Bachelor of Business	1	DD		CO 2	To understand the various types of Emotional & Social intelligence.
Administration V	Fifth	BBA-502	Aptiitude Reasoning	CO 3	To understand the various types of Analogy, data Arrangements, Logical sequencing etc.
TIA . 1-1	5			CO 4	To gain knowledge of number series, data sufficiency, arihematic reasoning etc
MI	olog	Section 201		CO 5	To gain the knowledge of visual memory and its applications.

				CO 1	To obtain knowledge of international organisations like IMF, World Bank, IMO etc to the students.
Bachelor of Business	C:Gab.	DDA 503	Conoral Business Augrenous	CO 2	To understand the various geographical features from Indian and across the globe.
Administration Fifth BBA-503	BBA-503	General Business Awareness	CO 3	To understand the everyday science to the students.	
			CO 4	To make the students familiar with the current business development and knowledge.	
				CO 5	To make the students familiar with the constitution and Indian polity.
		CO 1	To make the students understand the basic grammar.		
Bachelor of Business	- 220			CO 2	To familiar the students with the basic editing and error locating in english.
Administration	Fifth	BBA-504	General English	CO 3	To make the students learn the basic vocabulary and use them.
1,000/100119-02-509-510				CO 4	To gain the familiarity of students regarding the reading, writing, listening and comprehending.
			the same of the same of the same of	CO 5	To provide the knowledge of basic communication to the students.
		CO 1	To enable the students with the rural marketing concepts.		
Bachelor of Business				CO 2	To familiar the students with the rural consumer.
Administration	Fifth	BBA - 505 (M1)	Rural Marketing	CO 3	To understand the marketing of agricultural inputs.
				CO 4	To gain knowledge of rural marketing strategies.
				CO 5	To understand the 4 P's of rural marketing.
			To undertsand the basic provisions of Income Tax Act 1961.		
		CO 1			
Rachelor of Rusiness	and a	Name Salasania		CO 2	To understand the concept of Tax planning & management
Bachelor of Business Administration Fifth	Fifth	BBA - 505 (F1)	Corporate Taxes - Direct & Indirect Tax	CO 3	To impart knowledge regarding direct and indirect taxation.
Autimistration				CO 4	To enable the students to calculate the GST with knowledge of taxable event.
				CO 5	To impart the knwledge of various Custom Laws and Regulations.
				203	To make the studenst familiar with the concepts of services marketing.
Bachelor of Business Fifth			CO 1		
	Fifth	BBA - 506 (M2)	Service Marketing	CO 2	To understand the consumer behaiviour and service design.
Administration	1.001			CO 3	To understand the marketing mix of service marketing.
				CO 4	To make the students aware of various service marketing processess.
				CO 5	To gain knowledge of service performance parameters and understaning the gap model in true manner.
				CO 1	To impart the knowledge of Indian capital market to the students.
Bachelor of Business	Fifeb	DDA FOC (F3)	Financial Institutions & Investment	CO 2	To make the students understand the Portfolio Analysis & Selection strategies.
Administration	Fifth	BBA - 506 (F2)	Management	CO 3	To familiar the students with various organisatioons like ICICI, IFCI, NABARD, RRB etc.
				CO 4	To make the students aware with leasing and hire purchase policies.
				CO 5	To provide insights of mutual funds and its constituents to the students.
				CO 1	To make the students undergo the industrial training.
		BBA - 507		CO 2	To impart the knoweldge of practical aspect of business world.
Bachelor of Business	Fifth		Summer Training Project Report Based Viva	CO 3	To impart the knowledge of data collection.
Administration	20000	120,000	Voce	CO 4	To make the students to write project report.
				CO 5	To prepare the students of effective viva voce exam basde on project report.
				CO 1	To expose students to various perspectives and concepts in the field of Strategic Management.
Bachelor of Business	2 18	12072530		CO 2	To enable the students to understand the principles of strategy formulation, implementation and control in an organization.
Administration	Sixth	BBA-601	Strategic Mgt. & Business Policy	CO 3	To develop skills for applying various strategic concepts to the solution of business problems.
				CO 4	To master the analytical tools of strategic management.
				CO 5	To understand the porter's five model.
				CO 1	To understand the role of operations in overall business strategy of the firm.
Bachelor of Business				CO 2	To understand and apply the concepts of Material Management, Supply Chain Management and TQM perspectives.
ALC: OFF	Sixth	BBA-602	Operation Research	CO 3	To identify and evaluate the key factors and their interdependence of these factors in the design of effective operating systems.
S. Xell	the state of	5 5 5 12		CO 4	To understand the trends and challenges of 'Operations Management' in the current business environment.
1 12 3				CO 5	To apply techniques for effective utilization of operational resources.
(MIT)				CO1	To analyse the E-commerce market and trends worldwide.

Bachelor of Business	Sixth	BBA-603	Fundamentals of E-Commerce	CO 2	To make the students understand the various ecommerce platforms.
Administration			Tandanentas of E-commerce	CO 3	To understand the various techniques of Ecommerce marketing.
				CO 4	To compare physical and ecommerce mode of business.
				CO 5	To understand the security issues in Ecommerce.
				CO 1	To understand the concept of Industrial Relations.
Bachelor of Business				CO 2	To outline the important causes & impact of industrial disputes.
Administration	Sixth	BBA-604	Economic & Industrial Law	CO 3	To elaborate Industrial Dispute settlement procedures.
- Automotion				CO 4	To summarize the important provisions of Wage Legislations, and Factories Act in reference to Minimum Wages Act 1948 and health and safety of workers.
				CO 5	To summarize the important provisions of Social Security Legislations, in reference to Employees State Insurance Act 1948, Employees Provident Fund Act 1952, Payment of Gratuity Act 1972.
Bachelor of Business				CO 1	To familiar the students with retail business environment.
Administration	Sixth	BBA - 605 (M3)	Retail Management	CO 2	To make the students understand the various retail formats.
				CO 3	To enable the students to learn various retail practices.
				CO 4	To gain insights and inputs regarding retail marketing and promotion.
				CO 5	To make the students familiar with limitation of retail markets.
Rachelor of Rusiness			CO 1	To enable the learner to understand the various concepts of cost accounting and management accounting.	
Bachelor of Business	Sixth	BBA - 605 (F3)	Cost & Management Accounting	CO 2	To describe cost accounting as a tool of managerial decisions.
Administration	(5005000)			CO 3	To develop various skills among the students related with accounting of elements of costing.
				CO 4	To evaluate the cost of product at different levels of production.
				CO 5	To understand various cost management tools.
Bachelor of Business		BBA - 606 (M4)	Digital Marketing	CO 1	To enable the students top learn insights of digital marketing.
Administration	Sixth				To make the students understand advantages of digital marketing.
				CO 3	To develop various skills among the students regarding tools of digital marketing.
					To evaluate the cost of product and comparison in traiditional & digital marketing.
				CO 5	To understand the limitations of digital marketing.
Bachelor of Business				CO 1	To understand the accounting treatment of issue, forfeiture, re-issue of shares, debentures and redemption of preference shares.
Administration	Sixth	BBA - 605 (F4)	Company Accounts	CO 2	To understand the accounting treatment various special issues & buybacks.
raminati dubii				CO 3	To understand the standalone and consolidated final accounts of the company.
				CO 4	To understand the combinations and re-construction procedures and accouting of the company.
		The second second		CO 5	To analyze the financial statements of the company.
				CO 1	To develop a strong sense of identity among students.
Bachelor of Business	Sixth	BBA - 607	Comprehensive Viva Voce		To be able to comprehend the knowledge obtained in BBA program.
Administration	- SIACIT	DUR-007	Comprehensive viva voce	CO 3	To be able to communicate effectively. To make the students fully confident.
		Mary W			
					To inculcate the personality shaping and dynamism among the students.
and the second		100	the state of the s		To familiar with determinant and matrices. To formulate Limits, Continuity & Differentiability.
helor of Computer Applications	First	BCA 101	MATHEMATICS - I		To demonstrate a working knowledge Definite & Indefinite Integrals.
				CO4	To define vectors in 2 and 3 dimensions & physical interpretation of scalar and vector product.
		Autor the mine		COS	To develop analytical ability to solve real world problems using these methodologies.
	-171	1 1 1 1 1 1 1 1 1 1	135 . V.D. 62 . T. S.	CO1	To understand the basic programming fundamentals of C programming
10 9/			THE RESERVE OF THE PARTY OF THE	CO2	To Execute the structure of C program and use of built-in operators and datatypes.
helor of Computer Applications	First	BCA 102	PROGRAMMING PRINCIPLE AND ALGORITHM		To Understand the use of header files, decision structure, loop control structure and functions
15/ WC/3/		The second secon		CO4	To Develop an algorithm and flow chart to solve the problem
MELANT 19			The second secon	COS	To Develop programs using decision structures, loops and functions
11 11 10 1					Outline computer hardware, software

			COMPLETED SURPRISHED AND OFFICE	CO2	Explain systems development, word-processing, spreadsheet, and presentation
chelor of Computer Applications	First	BCA 103	COMPUTER FUNDAMENTAL AND OFFICE AUTOMATION		Implement binary, hexadecimal and octal number systems and their arithmetic
	A SWILL BUY	ALSETTER			Characterize the knowledge of various types of operating systems
	A CONTRACTOR			CO5	Summarize the basic Idea About Command Line Interface
					Students would be able to define management; its importance and state the functions of management . They will be able to recognize the sequential functions
					of management and tell the difference between management and administration. They will be able to recognize various management authors and theory given by them.
					Students will be able to illustrate the importance of leadership, motivation, and strategy formulation in the organization and interpret change management
Bachelor of Computer Applications	First	BCA 104	PRINCIPLES OF MANAGEMENT	CO2	models and stress management techniques.
				CO3	Students would be able to execute various models used in management and strategies to carry on managerial functions.
			A		Students will learn to analyze and implement various managerial functions by distinguishing their priority and effectiveness.
	The state of the				Students will be able to justify various management theories and relate to their effectiveness in current market scenario.
				CO6	Students would be able to design new ways of drafting strategies to manage change essential for managing an organization.
				CO1	To understand basic concept of business communication and principles to prepare effective communication for domestic and international business situations
All the second s	A V			CO2	To demonstrate their verbal and non-verbal communication skills through oral and written presentations.
Bachelor of Computer Applications	First	BCA 106	BUSINESS COMMUNICATION	CO3	To stimulate their critical thinking by designing and developing clean and lucid writing skills.
				CO4	To develop an understanding of appropriate organizational formats and channels used in business communication.
	Ann a sall			COS	To gain an understanding of IT Technology for Business communication.
				CO1	To gain knowledge about basics aspects associated with structure and function of ecological systems.
				COL	Students will learn about natural resource, its importance and environmental impacts of human activities on natural resource and the need of their conservation
				CO2	for a sustainable environment.
				CO3	To gain knowledge about the conservation of biodiversity and its importance.
Bachelor of Computer Applications	First	BCA 108 (008)	ENVIRONMENTAL STUDIES	CO4	To identify their roles, responsibilities as a citizen, consumers and environmental actors in a complex interconnected world.
				CO5	To analyze the impact of human and pollution on environment.
	1 - 3 - 30			CO6	Students will able to write and communicate effectively about environmental issues and problems.
			A Company	CO7	To enhance awareness of Disaster Risk Management
				-	Define command of Dos operating system.
		PCA 105	COMPUTER LABORATORY & PRACTICAL WORK	CO1	
Bachalar of Computer Applications	Ciect			CO2	Explain the concept of windows operating system and various application.
Bachelor of Computer Applications	First	BCA 105	OF COMPUTER FUNDAMENTAL & OFFICE	CO3	Use of MS word and their various application.
			AUTOMATION	CO4	Illustrate the concept of MS-Excel and their application. Basic idea of Power Point Presentation and how to use it like creation of ppt on any topic.
	A STATE OF THE PARTY OF THE PAR		A STATE OF THE PARTY OF THE PAR	CO5	
	ATTION	A LIVE TO STATE OF		CO1	Apply the specification of syntax rules for numerical constants and variables, data types
Destate of Committee Applications	-	201 107	COMPUTER LABORATORY & PRACTICAL WORK	CO2	Usage of Arithmetic operator, Conditional operator, logical operator and relational operators
Bachelor of Computer Applications	First	BCA 107	OF C PROGRAMMING	CO3	Read, understand and trace the execution of programs written in C language
				CO4	Write C programs using decision making, and looping constructs
	Alexander III			COS	Able to write c program using functions
ASSESSMENT OF THE PROPERTY OF	ALE TO Y	Carlot Carlot		CO1	To apply the basic concepts of Sets , Relation and Functions.
Bachelor of Computer Applications	Second	BCA 201	MATHEMATICS - II	CO2	Formulate Partial Differentiation and its applications.
			And the second s	CO3	To apply the basics concepts of 3 Dimensional Coordinates Geometry.
	Leal HAIL		AND THE RESERVE OF THE PERSON	CO4	To develop the ability to understand the double and triple integral.
		American V		CO1	Introduces with different data types, preprocessor directives, Bitwise operators and command line arguments in the C language
Bachelor of Computer Applications	Second	BCA 202	C PROGRAMMING	CO2	To understand the concept of array, string and file handling in C programming
100000000000000000000000000000000000000	ALVERO			CO3	Understand the dynamics of memory by the use of pointers, structure and union
		Win the second		CO4	Develop logics which will help them to create programs
				CO1	To comprehend the nature, functioning and design of organizations as social collectives.
	A Vibration V			CO2	To analyze the behavior of individuals and groups in organizations.
Bachelor of Computer Applications	Second	BCA 203	ORGANIZATION BEHAVIOR	CO3	To explain cause and effect of different behaviors in the organizations.
		1 3 1		CO4	To contrast the reciprocal relationship between the organizational leaders, managerial behavior, and their subordinates.
Will y	ute o			CO5	To develop conceptual understanding of change and its implementation.
121	W CO			CO1	To acquire the basic knowledge of logic gates.
(E)	13/1	Ag (S)	DIGITAL ELECTRONICS & COMPUTER	CO2	To construct basic combinational circuits and verify their functionalities
Bachelor of Computer Applications	Second	BCA 204	ORGANIZATION	CO3	To apply the design procedures to design basic sequential circuits
H o I I	11 1 1210	COLUMN TO SERVEY	URGANIZATION	CO4	To illustrate about counters & Registers

Bachelor of Computer Applications	Second			CO1	To evaluate the structure of various number systems and its application in digital design. Acquire the basic concepts of accounting terms along with Generally Accepted Accounting Principles (GAAP).
eachelor of Computer Applications	Second				The state of the s
sacreior of Computer Applications	Second			CO2	Attain in depth skills of organisation accounts and apply specific Accounting standards and accounting rules to record different transaction and events business entities.
		BCA 205	FINANCIAL ACCOUNTING & MANAGEMENT	CO3	Build the ability to prepare and interprets the financial statements of business entities.
				CO4	Demonstrate the roles and importance of finance function, management of funds and allocation of funds.
				CO5	Articulate the basic concepts and theories related to capital structure and cost of capital.
				CO6	Explain the importance of working capital in a business entity and list the factors influencing the working capital management.
				CO1	Acquire logical thinking, Implement the algorithms and analyze their complexity, Identify the correct and efficient ways of solving problems.
			Computer Laboratory & Practical work C	CO2	Implement real time functions using the power of C language features.
achelor of Computer Applications	Second	BCA 206	Programming	CO3	C programs using decision making, branching, looping constructs.
			Frogramming	CO4	Applying and Writing C programs to implement one dimensional and two dimensional arrays. (Dynamic Memory Allocation)
				CO5	Applying the specification of syntax rules for numerical constants and variables, data types.
				CO1	To identify the difference between the C and C++
				CO2	To describe the object-oriented programming approach in connection with C++
achelor of Computer Applications	Third	BCA 301	OBJECT ORIENTED PROGRAMMING (OOPs)	CO3	To apply the concepts of object-oriented programming
				CO4	Classify inheritance with understanding of early and late binding, usage of exception handling.
				COS	To summarize the concepts of function overloading, operator overloading, virtual functions and polymorphism.
				CO1	Apply appropriate constructs of programming language coding standards for application development.
				CO2	Use appropriate data structures for problem solving and programming.
achelor of Computer Applications	Third	BCA 302	DATA STRUCTURE USING C & C++	CO3	Use algorithmic foundations for solving and programming.
				CO4	Use algorithm for solving problems and programming.
				COS	To apply Algorithm for solving problems like sorting, searching, insertion and deletion of data.
				CO1	Develop programming logic and skills.
		BCA 303	COMPUTER ARCHITECTURE & ASSEMBLY LANGUAGE	CO2	To understand the theory and architecture of central processing unit.
ash along & Community					To analyze some of the design issues in terms of speed, technology & performance.
achelor of Computer Applications	Third			CO3	To design a simple CPU with applying the theory concepts.
				CO4	To learn the concepts of parallel processing, pipelining.
				CO5	To define different number systems, binary addition and subtraction, 2's complement representation and operations with this representation.
				CO1	To gain knowledge of basic concepts and fundamentals of economics
		BCA 304	BUSINESS ECONOMICS	CO2	To develop practical understanding of various economics concepts in business.
achelor of Computer Applications	Third			CO3	To apply the basic concepts of different market structure in long run and short run of business.
			BOSINESS ECONOMICS	CO4	To compute various measures regarding macroeconomic concerns
				CO5	To take appropriate decision and applying the concept of issues of dumping ,Exim policy of 2004-09,WTO concept , Globalization, group of twenty(g-20
				CO1	
		BCA 305		CO2	To gain Knowledge of basic concepts / fundamentals of statistics.
ashalas at Commission			THE STATE OF THE S	CUZ	To develop practical understanding of various statistics concepts.
Jachelor of Computer Applications	Third		ELEMENTS OF STATISTICS	CO3	To compute various measures of central tendency, Measures of Dispersion, Permutations & Combinations, SQC and their implementation in solving the numerical problems.
	19			CO4	To apply the basic concepts of probability and solve the numerical problems.
				CO5	To Take appropriate decisions and applying the Concept of Analytics and logical thinking.
				CO1	To create and explain the basic C++ program .
achelor of Computer Applications	Third	BCA 306	COMPUTER LABORATORY & PRACTICAL WORK	CO2	To demonstrate various programs using class and objects.
	WALCOUS		OF OOPs	CO3	To teach the student to implement object oriented concepts
				CO4	Illustrate the use of constructors and destructors.
				CO1	Develop simple C Programs using pointers and Functions.
			COMPUTER LABORATORY & PRACTICAL WORK	CO2	Develop C program for Linear data structure operations and its applications
achelor of Computer Applications	Third	BCA 307	OF DS	CO3	Experiment with File Manipulation concepts
	1 0 0		OF US	CO4	Develop programs using various sorting algorithms
				CO5	Develop programs using different searching methods
	1000			CO1	To describe the basics of computer graphics, different graphics systems and applications of computer graphics.
achelor of Computer Applications	TE ON	BCA 401	COMPUTER GRAPHICS & MULTIMEDIA	CO2	To develop an understanding of various algorithms for scan conversion
	WXC.	BCA 401	APPLICATION	CO3	To apply the concept of the techniques of clipping, two dimensional transformations and three dimensional transformations.
	14/31			CO4	To perform the use of multimedia and animation.
	10			CO1	To describe and explain the fundamental components of a computer operating system

				CO2	To define, restate, discuss, and explain the policies for scheduling, deadlocks, memory management, synchronization, system calls, and file systems.
Sachelor of Computer Applications	Fourth	BCA 402	OPERATING SYSTEM	соз	To design and construct the following OS components: System calls, Schedulers, Memory management systems, Virtual Memory and Paging systems.
				CO4	To describe and extrapolate the interactions among the various components of computing systems.
				CO5	Analyze the performance of different algorithm used in design of operating system componets.
				CO1	To decompose the given project in various phases of a lifecycle.
				CO2	To choose appropriate process model depending on the user requirements.
Bachelor of Computer Applications	Fourth	BCA 403	SOFTWARE ENGINEERING	CO3	To Perform various life cycle activities like Analysis, Design, Implementation, Testing and Maintenance.
				CO4	To know various processes used in all the phases of the product.
				COS	To apply the knowledge, techniques, and skills in the development of a software product.
				CO1	To gain Knowledge of the concepts / fundamentals of algorithms.
				CO2	To develop practical understanding of various optimization techniques.
Bachelor of Computer Applications	Fourth	BCA 404	OPTIMIZATION TECHNIQUES	соз	To compute various optimization techniques like LPP, Queuing Theory, Replacement Theory, Inventory Theory and Job Sequencing and their implementation
				CO4	To formulate & implement the numerical methods in solving business related problems.
				COS	To take appropriate decisions using logical thinking.
				CO1	To develop the ability to understand the complex number system.
				CO2	To develop an understanding of convergence and divergence of infinite series.
Bachelor of Computer Applications	Fourth	BCA 406	MATHEMATICS - III	CO3	To basic concepts of vector calculus.
		501400		CO4	
	a marin			CO5	To get the basic concepts of Fourier Series.
					To Introduce the first and second order Linear Differential Equation and determine its solution.
		BCA 405	COMPUTER LABORATORY & PRACTICAL WORK OF CGMA	CO1	Describe the basics concepts of computer graphics.
Bachelor of Computer Applications	Fourth			CO2	Discuss various algorithms for scan conversion and filling of basic objects .
				CO3	Apply clipping and filling techniques for modifying an object
				CO4	To analyse the concepts of different types of geometric transformations.
				CO5	To apply the cocepts of animation
			INTRODUCTION TO DBMS	CO1	Define the basic concepts of database management systems
Bachelor of Computer Applications	Fifth	BCA 501		CO2	Ability to design entity relationship model and convert entity relationship diagrams into RDBMS
топристиристор	1.00			CO3	Ability to compare different storage structures and formulate SQL queries on the data.
				CO4	Able to demonstrate transaction processing and concurrency control
				CO5	Able to apply normalization technique for schema refinement
		BCA 502	JAVA PROGRAMMING AND DYNAMIC WEBPAGE DESIGN	CO1	To implement, compile, test and run Java programs comprising more than one class
Bachelor of Computer Applications	Fifth			CO2	To understand the concept of package, interface, multithreading and jdbc in java
addition of computer Applications	riidi			CO3	To design and develop simple GUI application in java
				CO4	To design the simple web page
				CO5	To make use of members of classes found in the Java API
				CO1	Analyze the requirements for a given organizational structure and select the most appropriate networking architecture and technologies.
Pachalos of Computer A - U-V	E-01			CO2	have a hasic knowledge of the use of cryptography and network security.
Bachelor of Computer Applications	Fifth	BCA 503	COMPUTER NETWORK	CO3	Specify and identify deficiencies in existing protocols, and then go onto formulate new and better protocols.
				CO4	Analyze, specify and design the topological and routing strategies for an IP based networking infrastructure .
	A CONTRACT OF			CO5	Have a working knowledge of datagram and internet socket programming.
				CO1	To apply numerical methods to find our solution of algebraic equations using different methods under of algebraic equations. different conditions, and numerical solution of system of algebraic equations.
Bachelor of Computer Applications	Fifth	BCA 504	NUMERICAL METHODS	CO2	To apply various interpolation methods and finite difference concepts.
	Nersonalis		NOMENICAL METHODS	CO3	To work out numerical differentiation and integration whenever and wherever routine methods are not applicable.
	1			CO4	To able solve simultaneous linear equations with different methods.
				CO5	To work numerically on the ordinary differential equations using different methods through the theory of finite differences.
				CO1	Able to choose appropriate database schema for a given problem
vitute obx			COMPUTER LABORATORY & PRACTICAL WORK	CO2	Able to design an E-R model for real world problem
Bachelor of Computer Applications	Fifth	BCA 505	OF DBMS	CO3	Able to develop relational model for schema refinement
WX ON			OF DBMS	CO4	Able to build a database for roadway travels and formulate quires using DDL, DML, DCL commands
E AAIT 2	31			CO5	Able to create triggers, cursors for given problem
116 1111 1311				CO1	Write, compile, and execute Java programs that may include basic data types and control flow constructs
10/1			COMMITTED I ARCHATCHY & DRACTICAL WORK	CO2	Implement, compile, test and run Java programs comprising more than one class

Bachelor of Computer Applications	Fifth	BCA 506	OF JAVA PROGRAMMING & DYNAMIC WEBPAGE DESIGN	соз	Write, compile and execute Java programs using object oriented class structures with parameters, constructors, including inheritance and exception handling etc.
			WEBPAGE DESIGN	CO4	Write, compile, and execute Java programs using arrays, string, recursion and file handling.
				CO5	Write, compile, execute Java programs that include GUIs and event driven programming
				CO1	To study independently in chosen domain of Information Technology and programming
				CO2	To learn about project planning, execution, tracking, audit and closure of project.
Bachelor of Computer Applications	Fifth	BCA 507	MINOR PROJECT	CO3	To understand current technologies and future trends in IT Project Management.
				CO4	Gather, organize, summarize and interpret technical literature with the purpose of formulating a project proposal.
				COS	Write a technical report summarizing state-of-the art on an identified topic.
				CO1	To identify some of the factors driving the need for network security
				CO2	To identify and classify particular examples of attacks.
Bachelor of Computer Applications	Sixth	004.004		CO3	To define the terms vulnerability, threat and attack
secretor of computer Applications	Sixui	BCA 601	COMPUTER NETWORK SECURITY	CO4	To identify physical points of vulnerability in simple networks.
				CO5	To compare and contrast symmetric and asymmetric encryption systems and their vulnerability to attack, and explain the characteristics of hybrid systems.
				CO1	To understand System Development Life Cycle.
Bachelor of Computer Applications	Chath		AND A STATE OF THE	CO2	Analyse and specify the requirements of a system by gathering data.
action of computer Applications	Sixth	BCA 602	INFORMATION SYSTEM	CO3	To develop system proposal.
The second second				CO4	Design system components and environments.
				CO5	Evaluate software quality and productivity.
				CO1	To analyze the impact of E-commerce on business models and strategy.
Bachelor of Computer Applications				CO2	To describe the major types of E-commerce.
	Sixth	BCA 603	E-COMMERCE	CO3	To explain the process that should be followed in building an E-commerce presence.
				CO4	To identify the key security threats in the E-commerce environment.
				COS	To describe how procurement and supply chains relate to B2B E-commerce.
				CO1	Define Business Intelligence and Business Decision conecpts.
achelor of Computer Applications		BCA 604	KNOWLEDGE MANAGEMENT	CO2	Explain the concept of Business Expert System and various support system
	Sixth			CO3	To compute different approaches of Data Mart , Data Warehouse and its Tools.
				CO4	Example Multidiparting land parking at Description of the Control
				COS	Examine Multidimensional analysis and Data mining techniques
				CO1	Describe Knowledge Management System and its techniques.
					To design an Online Project with advanced technologies of their choice.
Bachelor of Computer Applications	Sixth	BCA 605P	MAJOR PROJECT	CO2	To meet the requirements of the industry.
		DCATOOSI	WAGON PROJECT	CO3	To develop a project professionally
				CO4	To prepare a SRS report.
				CO5	To develop good presentation skills.
		BCH-101		CO 1	To understand quantum mechanical model of the atom, quantum numbers, electronic configuration and shapes of various orbitals.
Bachelor of Science-Chemistry	The state of the s			CO 2	To understand the periodic trends in atomic radii, ionic radii, ionization energy and electron affinity of elements
(Honors)	First		Inorganic Chemistry	CO 3	To understand the importance and application of chemical bonds, inter- molecular and intramolecular weak chemical forces
	700			CO 4	To understand the concept of lattice energy
				CO 5	To understand Band theory and its application in rationalizing the conductivity of metals, semiconductors and insulators
				CO 1	To understand the basics and advanced concepts related to state of matter
Bachelor of Science-Chemistry	vetoces			CO 2	To understand the concept of Acids and Bases.
(Honors)	First	BCH-102	Physical Chemistry-1	CO 3	To Apply the concept of Buffer to preparer solutions
				CO4	To understand various mathematical expressions to define different states of matter.
				CO 5	various equations to calculate PH of various acids and bases.
Bachelor of Science-Chemistry				CO1	To understand different patterns of Communication.
(Honors)	First	BCH-103	English Communication	CO 2	To discuss various forms of writing skills, paragraphs and thesis statement.
(Honora)	0 == v= =			CO 3	To understand technical writing format, letters, reports, handbooks and notices.
Bachelor of Science-Chemistry				CO 1	To Apply the knowledge in mathematics (algebra, matrices, calculus) in solving arthmatic problems
	First	BCH-104	General Elective Mathematics	CO 2	To Understand the basic concepts of Vectors, polar coordinates and graphs.
(Honors)	06 3			CO 3	To Analyze and demonstrate methods in vectors, polar coordinates and graphs.
15/	1/2/			CO1	To Analyze and demonstrate mathematical skills required solving differential problems.
Bachelor of Science-Chemistry	1311				To understand the concept of Hybridisation and shapes of molecules.
(Honors) 5	perond	BCH-201	Organic Chemistry	CO 2	To understand the concept of Stereochemistry.
	Sepond S			CO 3	To discuss chemistry of hydrocarbons.
1 60	1611	and the same of th		CO 4	To understand the concept of Aromaticity and electrophilic substitution reactions.

helor of Science-Chemistry				CO 1 To understand the concept of Thermodynamics
(Honors)	Second	BCH-202	Physical Chemistry-2	CO 2 To understand the system of variable compositions and ideal gases.
(Honors)				CO 3 To explain the concept of Chemical Equilibrium.
				CO 4 To understand and apply the concept of solutions and their colligative properties.
				CO 1 To understand the concept of Vectors.
Bachelor of Science-Chemistry (Honors) Second BCH-203		CO 2 To eplain ordinary differential equations.		
	Second	BCH-203	Physics-1	CO 3 To understand Newton's laws of motions and their dynamics.
(Hollors)				CO4 To understand concept of work, momentum and energy.
	1 9			COS To explain the concept of Gravitation.
				CO6 To explain the concept of Elasticity and speed theory of relativirty.
				CO 1 To discuss the concept of Environmental studies.
Bachelor of Science-Chemistry	Second	DCU 204		CO 2 To understand the concept of Ecosystem and Food chain.
(Honors)	Second	BCH-204	Environmental studies	CO 3 To explain the use of renewable and non-renewable natural resources.
	1 Told			CO4 To explain the concept of Biodiversity and conservation.
				CO 5 To understand the reasons for pollution and environmental policies and practices.
				CO 1 To learn general principles of Metallurgy.
Bachelor of Science-Chemistry	T1.			CO 2 To understand chemistry of S-block elements.
(Honors)	Third	BCH-301	Inorganic Chemistry-2	CO 3 To understand chemistry of P- block elements.
			CO 4 To explain the structure and bonding in Hydrides , Oxides and Oxoacids.	
				CO 5 To learn the preparation and properties of Borazine, silicates, and interhalogen compounds.
				CO 1 To understand the chemistry of Halogenated hydrocarbons.
Bachelor of Science-Chemistry	chelor of Science-Chemistry (Honors) Third BCH-302	Organic Chamieta, 3	CO 2 To explain the preparation and properties of Alcohols, Ethers, and Phenols.	
(Honors)		Organic Chemistry-2	CO 3 To explain the chemistry of Carbonyl compounds.	
		CO 4 To explain the preparations and properties of Carboxylic acids and their derivatives.		
Bachelor of Science-Chemistry				CO 1 To understand the concept of Phase Equilibria.
(Honors)	Third	BCH-303	Physical Chemistry-3	CO 2 To explain the concept of Electrochemical Cells.
(Hollots)			1	CO 3 To understand the concept of Surface Chemistry.
				CO 1 To explain the concept of Crystal Structure.
Bachelor of Science-Chemistry		BCH-304	Physics-2	CO 2 To understand elementary lattice dynamics.
3.0	Third			CO 3 To explain the magnetic properties of Matter.
(Honors)				CO 4 To explain the Dielectric properties of materials .
				CO 5 To understand the idea of Superconductivity.
				CO 1 To understand the loca of Superconductivity.
Bachelor of Science-Chemistry				CO 2 To understand the concept of Coordination compounds. CO 2 To understand the concept of Transition elements and their analomous behavior.
(Honors)	Fourth	BCH-401	Inorganic Chemistry-3	CO 3 To understand the concept of Transition elements and their analomous behavior. CO 3 To understand the oxidation states and properties of Lanthanides and Actinoids.
10 20 20 20				
	THE REAL PROPERTY.			- Control incommons
Bachelor of Science-Chemistry				The state of the object containing functional groups.
(Honors)	Fourth	BCH-402	Organic Chemistry-3	CO 2 To understand the concept of Polynuclear Hydrocarbons.
n e-constant				CO 3 To understand the mechanism of substitution reactions of Furan and Pyrrole.
				CO 4 To explain the mechanism of Alkaloids and Terpenes.
Bachelor of Science-Chemistry	E BURGELL		The state of the s	CO1 To explain the concept of Conductance.
(Honors)	Fourth	BCH-403	Physical Chemistry-4	CO 2 To explain different laws and expression of Chemical Kinetics.
(1.01.013)				CO 3 To understand the concept of Catalysis.
				CO 4 To explain the concept of electromagnetic radiations in Photochemistry.
HITCHEL WAR				CO 1 To understand the metabolism of Carbohydrates
Bachelor of Science-Chemistry	Faurat	DOLL TO		CO 2 To undertstand the metabolism of Proteins and Enzymes.
(Honors)	Fourth	BCH-404	Analytical Clinical Biochemistry	CO 3 To understand the metabolism of Lipids and Lipoproteins.
				CO 4 To explain the structure of DNA and RNA, Genetic Code, their biological role.
			He or	CO 5 To explain the composition and functions of Blood and Urine.
Pacheles of Sales City	7 0 0	//511	-X8X	CO 1 To understand differential equations and integrating factors.
Bachelor of Science-Chemistry	Fourth	BCH-408	Mathematics	CO 2 To understand high order homogeneous equations with constant coefficient system of differential equations.
(Honors)		7 3 1	MIT) & Mathematics	CO 3 To explain the theory of power series method.
		1 5	VIII Jāl	CO 4 To explain the solution of first and second order partial differential equation.
- 1, V - 1 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		18	18/1	CO 1 understand about the basics of energy formation and its usage in one way or the other.
chalor of Tachnolom (CIVII)	W 100 - 140	1 *	***	CO 2 understand the basic fundamentals of Nuclear Energy.

ENGINEERING)	Third	BOE304	Energy Science & Engineering	CO 3	understand solar energy formation and its uses.
				CO 4	get detailed knowledge of renewable and non renewable energy resources.
				CO 5	understand and recognize numerous types of Energy conservation norms at national and international level.
				CO 1	Understand fundamentals and objective of Technical Communication relevant for the workplace as Engineers.
Bachelor of Technology (CIVIL		BAS301		CO 2	Utilize the technical writing for the purposes of Technical Communication and its exposure in various dimensions.
ENGINEERING)	Third		Technical Communication	CO 3	Build presentation skills to while facing diverse audience.
				CO 4	Develop Technical Communication Skills: Interview skills; Group Discussion: Argumentation skills
				CO 5	Evaluate effectiveness in fluent & efficient communication by learning the voice-dynamics.
				CO 1	Understand analytical techniques for analysing forces in statically determinate structures and motion of the bodies.
Bachelor of Technology (CIVIL				CO 2	Apply theorem of area and mass moment of inertia for simple and composite sections.
ENGINEERING)	Third	BCE301	Engineering Mechanics	CO 3	Apply concepts of structural analysis to solve trusses.
	DE TABLE			CO 4	Understand concepts of particle dynamics through work and energy and impulse momentum principles.
				CO 5	Apply concepts of kinetics to define rigid body rotation .
			CO 1	Learn the fundamental of surveying and terminology	
Bachelor of Technology (CIVIL				CO 2	Explain the concepts of measurement and traverse
ENGINEERING)	Third	BCE302	Surveying and geometics	CO 3	Draw contour map
ENGINEERING			1000 Marie 100 - 100 Marie	CO 4	Analyze the points of different elevation
				CO 5	Design different types of Curves
				CO 1	Identify the properties of fluid as a continuum
				CO 2	Solve problems on hydrostatics, including practical applications
Dock also sex at the territory			Later of the later	CO 3	Demonstrate the principles of mathematics to applications
Bachelor of Technology (CIVIL	Third	BCE303	Fluid Mechanics	- 003	Demonstrate the principles of mathematics to represent kinematic concepts related to fluid flow
ENGINEERING)			Total Medianes	CO 4	Apply the fundamental laws of fluid mechanics - conservation of mass, conservation of linear momentum, & the Bernoulli's principle for practical application
				CO 5	Outline and Propose the methods of flow measurements
				CO 6	Apply the concept of Dimensional analysis and model studies and solve practical problems.
				CO 1	Understand the tools and commands of drafting software.
Bachelor of Technology (CIVIL ENGINEERING)			TOWARD SWILD ONE OF A COUNTY OF THE	CO 2	Understanding Working in layers, blocks, x-ref, drawing layout and print setup.
	Third	BCE351	Building Planning & DrawingLab /CADD	CO 3	To Plan and draft of elevation and cross section of door and window
				CO 4	Unserstanding Planning and Drawings of Residential building of 1 room set (plan and section).
				CO 5	Preparation of details general arrangement drawing of 4 room duplex
		BCE352	Surveying and GeomaticsLab	CO 1	Understanding the measure bearings of a closed traverse by prismatic compass
Bachelor of Technology (CIVIL				CO 2	Understanding the reduced levels of given points using Auto/dumpy level.
ENGINEERING)	Third			CO 3	To measure horizontal angle between two objects by repetition/reiteration method.
				CO 4	To set out a simple circular curve by Rankine's method.
				CO 5	Coordinates measurement using GPS.
				CO 1	Determine the coefficient of discharge of the given venturimeter/orifice meter.
	DR I	DOCUMENT		CO 2	Determine the coefficient of discharge of the given bend meter.
Bachelor of Technology (CIVIL	Third		Fluid Mechanics Lab	CO3	Determine Coefficient of Friction factor for a given pipe line.
ENGINEERING)	111110	BCE353		CO 4	Verification of Bernoulli's Theorem
	201			CO 5	Understanding the Flow Visualization -Ideal Flow
				CO 6	To make studies in Wind Tunnel (Aerofoil and circular cylinder).
Bachelor of Technology (CIVIL	Third	DOCOLA		CO 1	To give a platform for the students to apply the theoretical knowledge they gained during the course and conduct design working models.
ENGINEERING)	mra	BCC351	Mini Projector Internship Assessment*	CO 2	To enable the students to use different design/coding platforms for design and analysis of project.
		TYTE THE WALL TO		CO 1	Able to understand the basic Concepts of Computer System Security & Hijacking.
Pachalas of Tashaslas (Cn ()				CO 2	Able to understand the basics of security approaches, (such as confidentiality)
Bachelor of Technology (CIVIL	Third	BCC 301	Computer System Security	CO 3	Able to understand basics of Architectures Principles and Web Security Issues.
ENGINEERING)				CO 4	Able to understand various protocols to establish TCP/IP connections with security features.
				CO 5	Able to understand various protocols to establish ICP/IP connections with security features.
		/	Tute a	CO 1	Able to apply the concepts of Cryptography Techniques and Digital Signature using Keys.
Deshales of T. A. J. J.	3000	//	nute ac	CO 2	Remember the concept of partial differential equation and to solve partial differential equations
Bachelor of Technology (CIVIL	Fourth	BAS402	Math III	CO 3	Analyze the concept of partial differential equations to evaluate the problems concerned with partial differential equations
ENGINEERING)		13/	W 10 10 11		Understand the concept of correlation, moments, skewness and kurtosis and curve fitting
		[5]	MIT)	CO 4	Remember the concept of probability to evaluate probability distributions
		10	18/1	CO 5	Apply the concept of hypothesis testing and statistical quality control to create control charts
	1 7.15	11.		CO 1	Understand about the need of value education and harmony in self, family, society and nature.
Rachalor of Tachnolom, ICIVII			deerul	CO 2	Apply the understanding of value education to ensure harmony at all the four levels of living.

ENGINEERING)	Fourth	BVE401	Universal Human Values	CO 3	Analyze about self, feelings in relationship, society and relevence of nature.
				CO 4	Evaluate their participation (Thought, Behaviour, Work, Realization) at all the four levels of living.
				CO 5	Develop their emotional, social and professional competence.
				CO 1	Identify various building materials and to understand their basic properties
achelor of Technology (CIVIL			Material, Testing & Construction Practices	CO 2	Understand the use of non-conventional civil engineering materials.
NGINEERING)	Fourth	BCE 401		CO 3	Study suitable type of flooring and roofing in the construction process.
···oiiteeiiiitoj				CO 4	Characterize the concept of plastering, pointing and various other building services.
				CO 5	Exemplify the various fire protection, sound and thermal insulation techniques, maintenance and repair of buildings.
				CO 1	Understand the theory of elasticity including strain/displacement and hooke's law relationship.
Bachelor of Technology (CIVIL				CO 2	Analyse Solid mechanics problens using classical methods and enegy methods.
NGINEERING)	Fourth	BCE 402	Introduction to Solid Mechanics	CO 3	Calculate and represent the stress- strain diagram in bars and simple structure.
NGINEERING				CO 4	Solve problems relating to pure and non-uniform bonding of beams and simple structure
				CO 5	Understand the concept of buckling and the able to solve the problems
				CO 1	Apply basic principles to analyze and solve open channel flow problems.
lacheles of Taskaslass (Chris				CO 2	Apply principles of energy concepts to practical applications of free surface flow.
achelor of Technology (CIVIL	Fourth	BCE 403	Hydraulic Engineering & Machines	CO 3	Explain the concept of Impact of jet on vanes.
NGINEERING)		355		CO 4	Identify the type of turbine based on head, quantity of flow and speed.
				CO 5	Annly the representations of budget up and the property of the
				CO 1	Apply the principles of hydraulics and evaluate the efficiencies of turbines and centrifugal pump
				CO 2	Understanding of Testing of various properties of various materials as per BIS specifications
				002	Understanding the significance of Normal Consistency of cement.
Bachelor of Technology (CIVIL ENGINEERING)	Fourth	BCE 451	Material Testing Lab	CO 3	Understand the Water absorption of aggregate.
50				CO 4	Understand the Bulking of sand .
100				CO 5	Understand the water absorption of bricks and significance of water content.
Bachelor of Technology (CIVIL ENGINEERING)				CO 1	Determination of the Tension test on Mild Steel
	Fourth	BCE 452	Solid Mechanics Lab	CO 2	Understanding the Measurement of forces on supports in statically determinate beam.
				CO 3	Demonstrate the Measurement of deflections in statically determinate beam.
				CO 4	Understanding Hardness Test (Brinnel's and Rockwell)
				CO 1	Understanding the Manning's coefficient of roughness 'n' for the bed of a given flume.
achelor of Technology (CIVIL		BCE 453	Hydraulics & Hydraulic Machine Lab	CO 2	Understanding the flow characteristics over a hump placed in an open channel.
NGINEERING)	Fourth			CO 3	Understanding the characteristics of free hydraulic jump.
				CO 4	Understanding centrifugal pump and their characteristics
				CO 5	Understanding characteristics Francis Turbine.
		BNC402		CO 1	Understand the concept of python programming
achelor of Technology (CIVIL	724 (40) 744		Python Programming	CO 2	Apply the concept of conditions, loops and data structures in python program
NGINEERING)	Fourth			CO3	Apply the concept of functions, modules, recursion through python program
				CO 4	Apply the concept of abstract data type, exception handling and file handling through python program
				CO 5	Apply the concept of searching, sorting and merging through python program
				CO 1	Understand the origin of the soil, basic properties of soil, concept of compaction and consolidation, methods of soil exploration and the ultimate bearing capacity of shallow foundations and deep foundations.
Bachelor of Technology (CIVIL				CO 2	Apply principles of phase diagram for soil properties
ENGINEERING)	Fifth	KCE 501	Geotechnical Engineering	CO 3	Analyze the behaviour and effect of water in soils, modes of soil behaviour and calculate and plot soil strength parameters and stresses analysis in soil by various methods
				CO 4	Evaluate shear parameters of soil and lateral earth pressure by various methods
			والمستمين والمستمين والمستمل المستمين والمستمين والمستم	CO 5	Estimate the stability of slopes and bearing capacity of soil
				CO 1	Explain type of structures and method for their analysis.
achelor of Technology (CIVIL				CO 2	Analyze different types of trusses for member forces.
NCINEEDING	Fifth	KCE 502	Structural Analysis	CO 3	Compute slope and deflection in determinate structures using different methods.
white	X			CO 4	Apply the concept of influence lines and moving loads to compute bending moment and shear force at different sections.
(Stitute	1			CO 5	Analyze determinate arches for different loading conditions.
113/10	121			CO1	Define project organization uniterest todating conditions.
II AM	7 31				Define project, organization, schedule, progress, tender, contract, construction related activities.
	1/8/1			CO 2	Understand various types of projects and their special requirements, the available financing options, tendering requirements and cost estimates etc.

Bachelor of Technology (CIVIL ENGINEERING)	Fifth	KCE 503	Quantity Estimation and Construction Management	CO 3	Apply the knowledge to define the requirements of project organization for small size projects, prepare specification and formulate various items of Bill of Quantity.
				CO 4	Organize and relate various project activities which are concurrent or sequential, compare various alternatives of schedule with respect time.
				CO 5	Support or Criticize various tender requirements and the items formulated in Bill of quantity.
				CO 6	Develop a tender for projects, formulate schedule and suggest construction equipment to execute the project construction
				CO 1	Learn the cement composition and its hydration process
				CO 2	Understand the effect of chemical admixtures on concrete properties
achelor of Technology (CIVIL	Fifth	KCE 051	Concrete Technology	CO 3	Learn the applicability aspects of supplementary cementing materials on properties of concrete
IGINEERING)			constate resimology	CO 4	Design a concrete mix by using IS and aCI method
				CO 5	Determine the mechanical properties of concrete .
				CO 6	Learn the special types of concrete
achelor of Technology (CIVIL NGINEERING)				CO 1	Understand various components of hydrologic cycle that affect the movement of water in the earth.
				CO 2	Process and analyze precipitation data.
	Fifth	KCE 055	Engineering Hydrology	CO 3	To Develop runoff and hydrograph estimation and apply into engineering practices.
				CO 4	Apply various statistical methods for hydrological analysis.
				CO 5	The concept of movement of ground water beneath the earth with the help of different theories.
achelor of Technology (CIVIL	Fifth	KCE 551	CAD LAB	CO 1	Undrstanding the Working of latest version of geotechnical engineering software (Open source/commercial software)
NGINEERING)				CO 2	Understanding of Working on latest version of surveying software (Open source/commercial software)
Bachelor of Technology (CIVIL		KCE 552	Geotechnical Engineering Lab	CO 1	Understanding the Determination of water content of a given moist soil sample by (i) oven drying method, (ii) pycnometer method.
NGINEERING)	Fifth			CO 2	Understanding the Determination of in situ dry density of soil mass by (i) core-cutter method, (ii) sand replacement method.
				CO 3	Understanding of Determination of shear strength of soil by Direct shear test.
				CO 4	Understanding of Determination of permeability of a remoulded soil sample by constant head &/or falling head method.
				CO 1	Understanding the Study of DSR, CPWD specifications and NBC.
Bachelor of Technology (CIVIL ENGINEERING)	Fifth	KCE 553	Quantity Estimation & Construction Management LAB	CO 2	Estimation of quantities for any one of the following: Building/ Septic tank/Water supply pipe line/road/bridge.
				CO 3	Understanding the Preparation of Bill of Quantities (BOQ) for above project
				CO 4	Practice on open source project management software / MS Project/Primavera software for same problem.
	Dill Dill			CO 5	Understanding the Study of any full set of tender documents (Institute shall provide the set from ongoing/ completed tenders).
				CO 1	Identify and formulate problems to solve issues for benefit of society.
achelor of Technology (CIVIL	Fifth	KCE 554	Mini Project or Internship Assessment*	CO 2	Develop design skill for solutions to basic engineering problems.
NGINEERING)	, mai			CO 3	Impart skills in preparing brief technical report describing the project and results.
				CO 4	Create an ability to work collaboratively in team and contribute individually.
			Park Hameline	CO 1	To acquaint the students with legacies of constitutional development in India and help them to understand the most diversified legal document of India and philosophy behind it.
achelor of Technology (CIVIL	Fifth	VNC FO1	Country of the last of the las	CO 2	To make students aware of the theoretical and functional aspects of the Indian Parliamentary System.
NGINEERING)	riidi	KNC 501	Constitution of India, Law and Engineering	CO 3	To channelize students' thinking towards basic understanding of the legal conceptsand its implications for engineers.
				CO 4	To acquaint students with latest intellectual property rights and innovation environment with related regulatory framework
	A CONTRACTOR	Y IV		CO 5	To make students learn about role of engineering in business organizations and e-governance
				CO 1	Analyse and Design RCC beams for flexure by IS methods.
achelor of Technology (CIVIL	The same of the same			CO 2	Analyse and Design RCC beams for shear by IS methods.
NGINEERING)	Sixth	KCE 601	Design of Concrete Structure	CO 3	Analyse and Design RCC slabs and staircase by IS methods.
				CO 4	Design the RCC compression members by IS methods.
					Design various types of footings and cantilever retaining wall
				CO 1	Apply basic concept of Various aspects of Geometric Design.
			1000	CO 2	Calculate various types of parameters like SSD, ISD and OSD and apply them for Geometric Design
Bachelor of Technology (CIVIL	Chuth	ves of still		CO 3	Design required horizontal curves (circular and transition curves), super elevation.
ENGINEERING)	Sixth	KCE 602	Tansportation Engineering	CO 4	Distribute the super elevation over the length of transition curve.
	FE2 40	13/ N	17 31		Design the valley curves and summit curves.
		1 2 IV	11 121	CO 6	Select the appropriate materials for pavements (rigid and flexible) use the same design and construction of roads.
		121	1811	CO 1	Understand basic concepts of water demand, distribution system and arising problems.

chelor of Technology (CIVIL	Sixth	KCE 603	Environmental Engineering	CO 3	Design various water supply treatment units and their significance.
IGINEERING)	Sixti	KCL 003	Environmental Engineering	CO 4	Analyze the relation between environment and water demand
				CO 5	Design waste water treatment plant units
				CO 6	Evaluate the significance of each treatment unit with their specific engineering importance
				CO 1	Explain river morphology and its classification.
achelor of Technology (CIVIL	W00.V			CO 2	Explain hydraulic geometry and behavior of river.
NGINEERING)	Sixth	KCE062	River Engineering	CO 3	Explain socio-cultural influences and ethics of stream restorations.
				CO 4	Analyze flow and sediment transport in rivers and channels.
	AL			CO 5	Design guide band, embankments and flood protection systems.
				CO 1	Enhance creative knowledge of students regarding selection of a business idea and it's implementation process.
achelor of Technology (CIVIL				CO 2	Acquire knowledge on entrepreneurship development, its Pro's and con's.
NGINEERING)	Sixth	KOE060	Idea to Business Model	CO 3	Acquire basic knowledge on how to become an Entrepreneur.
				CO 4	Develop knowledge on Production systems and it's sustainability through production, planning and control (PPC)
				CO 5	Develop appropriate business model and apply in a better way.
achelor of Technology (CIVIL	39% 0			CO 1	perform the tests of crushing value & impact value of coarse -aggragate
NGINEERING)	Sixth	KCE 651	Transportation Engineering Lab	CO 2	Perform the tests of Los angeles abrasion value of coarse aggregate & penetration value of bitumen .
#500/W05W0755				CO 3	perform the tests of determination of softening point of bituminous material & flash fire point of bituminous material
achelor of Technology (CIVIL				CO 1	Determine turbidity and conductivity & pH, alkalinity and acidity of a waste water sample.
NGINEERING)	Sixth	KCE 652	Environmental Engineering Lab	CO 2	Determine hardness and chlorides & residual chlorine of a waste water sample
			Sea Constitution of the Co	CO 3	Determine BOD and COD & total, suspended and dissolved particles of a waste water sample
				CO 1	Learn preparation of working drawing for simply supported, continuous and cantilever RC beams & t - beams and L-beams.
achelor of Technology (CIVIL NGINEERING)	Sixth	KCE 653	Structural Detailing Lab	CO 2	Learn preparation of working drawing for simply supported, continuous and one way and two way slabs & tied and spirally reinforced columns.
				CO 3	Learn preparation of working drawing for isolated footings for RC columns & combined rectangular and trapezoidal footings.
Bachelor of Technology (CIVIL Sixth			Indian Tradition, Culture and Society	CO 1	Students will be able explain society, state and polity in India in traditional and modern context.
	The Birth			CO 2	Students will be acquaint with essence of Indian Literature, Culture, Tradition and Practices
	Sixth	KNC 602		CO 3	Students will be able to visualize the root of Indian Religion, Philosophy and Practices
				CO 4	Students will be able to understand Science, Management and Indian Knowledge System
	الكاجيد			CO 5	Students will connect up and explain Cultural Heritage of India and root of Performing Arts
				CO 1	Students can understand the definitions, concepts and components of Rural Development
achelor of Technology (CIVIL				CO 2	Students will know the importance, structure, significance, resources of Indian rural economy.
NGINEERING)	Seventh	KHU701	Rural Development: Administrationand	CO 3	Students will have a clear idea about the area development programmes and its impact
HOMEENING)			Planning		Students will be able to acquire knowledge about rural entrepreneurship.
				CO 4	
				CO 5	Students will be able to understand about the using of different methods for human resource planning
	the second second			CO 1	Understand the concept of solid waste management.
achelor of Technology (CIVIL	H	11		CO 2	Explain handling and processing of solid waste.
NGINEERING)	Seventh	KCE074	Solid Waste Management	CO 3	Apply the concept of landfilling for disposal of solid waste.
	out Sud			CO 4	Design composting and other solid waste conversion units.
	Machine Line			CO 5	Understand the various hazardous waste, risk assessment and legislation.
	1 5 5 4 5 F			CO 1	Describe the components of hydrological cycle, evaporation process and consumptive use.
achelor of Technology (CIVIL	ALIMI BULL	and Company		CO 2	Apply the knowledge of stream flow measurement techniques and hydrograph theory for computation of run-off.
NGINEERING)	Seventh	KCE078	Irrigation and Water Resource Engineering	CO 3	Design different types of irrigation channels and water logging preventive measures.
	SEC WALLES			CO 4	Design the regulatory and control systems of canal and irrigation outlets.
				CO 5	Apply the knowledge of ground water hydrology and determination of discharge through wells.
A STATE OF THE STA	~			CO 1	Idendtify the various Renewable Energy Resources.
achelor of Technology (CIVIL O	X			CO 2	Apply the concept of solar radiation in Solar Heating and cooling.
NGINEERING)	Seventh	KOE074	Renewable Energy Resources	CO 3	Convert Geotghermal Energy into Electrical Energy and any other Energy.
	2/			CO 4	Convert Wind Energy into Electrical EnergyConvert Geotghermal Energy into Electrical Energy
HELAMIT	5			CO 5	Understand the concept of energy Conversion from OTEC, Wave and tidal wave.
II - (IVII)	0			CO 1	Understand the Codal Provision for (i) Aggregates (ii) Cements (iii) Admixtures (iv) Fly ash in making the concrete.

achelor of Technology (CIVIL	Seventh	KCE751	ConcreteLab	CO 2	Prepare the Concrete Mix design computation by ACI 211.1-91 method, IS code method as per 10262-2019 & 456-2000, DOE method for given sample.	THE TOTAL
NGINEERING)	A SECURITY OF THE SECURITY OF		Concretecab	CO 3	Test the samples and Fresh concrete	
				CO 4	Understand the Effects of Admixture - Accelerator, Retarder, Super Plasticizer.	01 - 11 - V
				CO 5	Perform NDT on Concrete samples	
				CO 1	Apply acquired knowledge within the chosen area of technology for project development	
Bachelor of Technology (CIVIL	8			CO 2	Analyze the technical aspects of the chosen project with a comprehensive and systematic approach	
ENGINEERING)	Seventh	KCE752	Mini ProjectorInternship Assessment	CO 3	Test, improve and refine the technical aspects for engineering projects	
			A STATE OF THE STA	CO 4	Conclude as an individual or in a team in development of technical projects	
				CO 5	Create and report effectively project related activities and findings	
				CO 1	An understanding of professional and ethical responsibilities.	
					An ability to use of various techniques, engineering knowledge and skill,	
Bachelor of Technology (CIVIL	Seventh	KCE753	Destroy 4	CO 2	and modern engineering tools necessary for planning, analysis and designing	
ENGINEERING)	Seventi	KCE755	Project-1		of engineering projects like building, roads, geotechnical works/problems.	
				CO 3	Recognition of the need for, and ability to engage in life-long learning.	
				CO 4	Knowledge of contemporary issues.	
				CO 1	Describe the key concepts and attributes that make a successful Entrepreneur.	
Bachelor of Technology (CIVIL				CO 2	Illustrate the function of an entrepreneur in a successful, commercial application of innovation.	
ENGINEERING)	Eighth	KHU 802	Project Management & Entrepreneurship	CO 3	Integrating the learning techniques for project alapsing and even the control of innovation.	
			- Santapreneurinp	CO 4	Integrating the learning techniques for project planning and execution control.	
				CO 5	Identify the financing process of the entrepreneurial business.	
				CO 1	Identify areas of our economy/society where social entrepreneurs work.	
Pachalas of Tasks - L - 100 m				CO 2	Student will be able to differentiate about small and large-scale industries.	
Bachelor of Technology (CIVIL	Eighth	KOE083	Entrepreneurship Development	_	Students will be able to identify the projects by studied methods.	
ENGINEERING)	V20-002001			CO 3	Students will be able to evaluate efficiently finance related work.	
				CO 4	Students will be able to Apply the project planning and Controlling methods.	
				CO 5	Students will be able to Compare all the legal aspects related to entrepreneur and small-scale industries.	
		+ IIIoc	Digital & Social Media Marketing	CO 1	Explain the key concepts related to Digital Marketing and Consumer's behavior.	
Bachelor of Technology (CIVIL	Eighth	KOE-094		CO 2	Describe the role of Social Media Marketing in Digital Marketing.	
ENGINEERING)				CO 3	Describe various tools of Digital Marketing.	
				CO 4	Differentiate the role & amp relationship between organizational design & Differentiate the role amp relationship between organizational design amp; digital transformation.	
				CO 5	Explain the Digital Trends of Past & amp Future.	
		KCE 851	Project-II	CO 1	An understanding of professional and ethical responsibilities.	
Bachelor of Technology (CIVIL	Eighth			21212	An ability to use of various techniques, engineering knowledge and skill,	
ENGINEERING)				CO 2	and modern engineering tools necessary for planning, analysis and designing	
					of engineering projects like building, roads, geotechnical works/problems.	TALL ST
				CO 3	Recognition of the need for, and ability to engage in life-long learning.	
Pachalas of Tark				CO 4	Knowledge of contemporary issues.	
Bachelor of Technology	and the state of			CO 1	Remember the concept of partial differential equation and to solve partial differential equations.	
(Computer Science &	Third &	DAGGGG	A CONTRACTOR OF THE PARTY OF TH	CO 2	Analyze the concept of partial differential equations to evaluate the problems concerned with partial differential equations	
Engineering), Computer	Fourth	BAS303	MATH IV	CO 3	Understand the concept of correlation, moments, skewness and kurtosis and curve fitting.	
Science & Engineering				CO 4	Remember the concept of probability to evaluate probability distributions.	
				CO 5	Apply the concept of hypothesis testing and statistical quality control to create control charts.	
Bachelor of Technology	W 21 1			CO 1	To understand sustained happiness through the essentials of human values and skills.	
(Computer Science &	Third &	BVE301/BVE401	UNIVERSAL HUMAN VALUES AND	CO 2	To identify harmony in self and body and their co-existence	
Engineering), Computer	Fourth		PROFESSIONAL ETHICS	CO 3	To understand harmony in family and society.	-
Science & Engineering	, our til	Control of the control of	. NO ESSIONAL ETTICS	CO 4	To explain the mutually satisfying human behaviour with enriching interaction with nature .	
				CO 5	Identify ethical and unethical conduct through value based education to maintain a harmonious professional environment	
Bachelor of Technology				CO 1	Understand the fundamental of all modes of technical communication along with their elements, dimensions.	
(Computer Science &	Third &			CO 2	Undersatnd to write pragmatic and impactful reports, research paper, technical proposals and resumes.	
Engineering), Computer	Fourth	BAS 301/ BAS401	CHNICAL COMMUNICATIONS	CO 3	Understand public speaking stratgies, technique and different style.	
	rourtii	1/5/101	Call Commonitories	CO 4	Grasp the essential of interview and group discussion and skill required to face them confidentally.	
Science & Engineering				CO 5	Comprehend the grammermatical and oral aspect of the english language as an effective tool pof communication.	
Bachelor of Technology		I 5 IV	1 3	CO 1	Understand the basics of data Structure	
		1101	1811	CO 2	Understand the concepts of linear.	
(Computer Science &						

Science & Engineering				CO 4	Apply the concept of Linear Data Structure
Bachelor of Technology				CO 5	Apply the concept of non-linear Data Structure
				CO 1	Understand the basic structure, operation of computer & its components.
(Computer Science &	Third	DCC202	601.00	CO 2	Understand the different ways of communication among CPU, memory and I/O devices.
Engineering), Computer Science & Engineering (Data Science)	mu	BCS302	COMPUTER ORGANIZATION AND STRUCTURE	CO 3	Understand the parameters for the design of memory unit, control unit, ISA and different memory organization
				CO 4	Apply the different algorithms for arithmetic operations, logic operations and different instruction formats
Bachelor of Technology				CO 5	Compute the performance of different pipeline techniques.
(Computer Science &				CO 1	Illustrate basic mathematical objects such as sets ,relations,POSET and Lattices.
	Third	DCC202		CO 2	Examine various structures and properties of Boolean Algebra and functions.
ingineering), Computer Science	Triird	BCS303	DISCRETE STRUCTURE AND THEORY OF LOGIC	CO 3	Explore the mathematical properties via formal language of propositional and predicate logic.
& Engineering (Data Science)				CO 4	Solve substantial experience of Algebraic Structure as groups, rings and fields.
and Computer Science & Jachelor of Technology (Computer				CO 5	Use graphs as tools to visualize and simplify the problems.
cience & Engineering), Computer				CO 1	Implement different sorting and searching algorithms
Science & Engineering (Data	Third	BCS351	DATA STRUCTURE LAB	CO 2	Implement the Stack, Queue and their applications
Science & Engineering (Data				CO 3	Implement various types of linked lists and their applications
Science) and Computer Science &				CO 4	Perform basic operations on trees and graphs and determine minimum spanning tree
achelor of Technology (Computer			COMPUTER ORGANIZATION AND STRUCTURE	CO 1	Implement adder circuits using basic gates
cience & Engineering), Computer	Third	BCS352		CO 2	Understand the converter circuits using basic gates.
Science & Engineering (Data				CO 3	Understand the working of Multiplexer by using IC 74153
Science) and Computer Science &			CO 4	Understand the various circuits for ALU, datapath and control units.	
Bachelor of Technology (Computer Science & Engineering), Computer				CO 1	Implement the Static Page Web Designsusing HTML.
Science & Engineering), Computer Science & Engineering (Data Science)				CO 2	Design dynamic web pages using Cascading Style Sheets.
and Computer Science & Engineering	Third	BCS353	WEB DESIGNING WORKSHOP	CO 3	Implement the features of Bootstrap.
(Artificial Intelligence & Machine Learning)				CO 4	Implement the concepts of Java Script in the designs of Web pages.
Bachelor of Technology (Computer				CO 1	Daveloning a technical artifact and the second seco
Science & Engineering), Computer			Mini Project	CO 2	Developing a technical artifact requiring new technical skills and effectivelyutilizing a new software toolto complete a task
cience & Engineering (Data Science)	***	Description of the last of the		CO 3	Writing requirements documentation, Selecting appropriate technologies, identifying and creating appropriate test cases for systems.
nd Computer Science & Engineering	Third	BCC351		CO 4	writing requirements documentation, Selecting appropriate technologies, identifying and creating appropriate test cases for systems
(Artificial Intelligence & Machine				CO 4	Improving problem-solving, critical thinkings kills and report writing.
Learning)				CO 5	Learning professional skills like exercising leadership, behaving professionally, behaving ethically, listening effectively, participating as a member of a team,
Bachelor of Technology (Computer				CO 1	developing appropriate workplace attitudes
Science & Engineering), Computer		BCC301/ BCC401		CO 2	Understand the software bugs that pose cyber security threats and how to fix the bugs to mitigate such threats.
cience & Engineering (Data Science)	Third &			COZ	Understand the attack scenarios to web browsers, web servers and how to mitigate such threats.
nd Computer Science & Engineering (Artificial Intelligence & Machine	Fourth		CYBER SECURITY	CO 3	Understand the cyber security holes in standard networking protocols such as TCP/IP, ARP, DNS, Ethernet, BGP etc and how to mitigate such Security hole.
Learning)				CO 4	Understand the difference betweer System Security, Network Security and Cryptography, Crypto- Protocol etc.
				CO 5	Understand the cyber threats to Critical Infrastructures.
Bachelor of Tochnology (Communication)				CO 1	Apply fundamental Python programming concepts, including variables, basic operators, and Python block structures.
Bachelor of Technology (Computer Science & Engineering), Computer				CO 2	Demonstrate proficiency in using conditional blocks and implementing loop
cience & Engineering (Data Science)	Third &				constructs for efficient program flow control.
nd Computer Science & Engineering	and the second second	BCC302/BCC402	PYTHON PROGRAMMING	CO 3	Manipulate complex data types in Python, including strings, lists, tuples, and dictionaries, utilizing built-in methods and operations.
(Artificial Intelligence & Machine Learning)	Fourth			CO 4	Implement file input/output operations in Python, including reading and writing files, understanding file functions, and manipulating file pointers.
				CO 5	Utilize Python packages such as matplotlib, numpy, and pandas to perform data visualization and analysis,
Bachelor of Technology (Computer					and develop graphical user interface(GUI) applications using Tkinter.
Science & Engineering), Computer				CO 1	To Explain the basic concepts and functionalities of operating system.
science & Engineering), Computer science & Engineering (Data Science)	Farret			CO 2	:To Apply the process scheduling and synchronization techniques.
nd Computer Science & Engineering	Fourth	BCS401	OPERATING SYSTEM	CO 3	To Implement deadlock control mechanism.
(Artificial Intelligence & Machine		Winte o	No.	CO 4	To Apply memory and I/O management techniques.
I coming)		12010	X311	CO 5	To Implement file management system.
Bachelor of Technology (Computer Science & Engineering), Computer	Total .	12/4	THEORY OF AUTOMATA AND FORMAL	CO 1	To Apply the concepts of Automata.
cience & Engineering), Computer		117 M	THE BY OF AUTOMATA AND FORMAL	CO 2	To Identify formal language class and its relationships in the given problem.
and Computer Science & Engineering	Fourth	8(5402		CO 3	To Construct grammar for given formal language.
(Artificial Intelligence & Machine		12	+ // Districts	CO 4	To Design Automata for given formal language.
(Artificial Intelligence & Machine		*Mee	-ul		To Analyze the tractability and decidability using Turing Machine.

Bachelor of Technology (Computer	127			CO 1	Discuss essential programming structures in Java, including data types, variables, operators, controlflow, arrays, and strings.
Science & Engineering), Computer				CO 2	Understanding the concepts of object-oriented programming and develop Java programs efficiently.
Science & Engineering (Data Science) and Computer Science & Engineering	Fourth	BCS403	OBJECT ORIENTED PROGRAMMING WITH JAVA	CO 3	Demonstrate the concept of exception handling to understand the various types of exceptions and will gain proficiency in input/output operations.
(Artificial Intelligence & Machine Learning)				CO 4	Apply multithreading concepts and Java's latest features such as functional interfaces, lambda expressions, stream API etc.
				CO 5	Develope Java Collections Framework, Spring Framework and Spring Boot for building REST fulweb
				COS	services and web applications.
Bachelor of Technology (Computer				CO 1	To apply the basic LINUX commands, process concepts and system calls.
Science & Engineering), Computer	Fourth	BCS451	OPERATING SYSTEM LAB	CO 2	To implement various CPU scheduling algorithm for a given problem
Science & Engineering (Data	router	003431	OPERATING STSTEM LAB	CO 3	To implement the concepts of deadlock and multiprogramming system
Science) and Computer Science &				CO 4	To implement various page replacement algorithms.
Bachelor of Technology (Computer				CO 1	Write and execute Java Program using OOPS concepts on Different Platforms
Science & Engineering), Computer	Fourth	DCCAFA	OBJECT ORIENTED PROGRAMMING WITH JAVA	CO 2	Implement error handling techniques using exceptions and multithreading.
Science & Engineering (Data Science)	rountil	BCS452	LAB	CO 3	Create and Construct Java Programs using Packages and Industry Orientd Application using Spring Boot.
and Computer Science & Engineering				CO 4	Implement Test PEST full websprides and Test State and Industry Oriental Application using Spring Boot.
Bachelor of Technology (Computer				CO 1	Implement Test REST ful webservices and Test Front end web appllication with Spring Boot.
Science & Engineering), Computer				CO 2	understanding capturing packets using Wireshark and to analyse protocols like HTTPS,DNS,SMPT,TCP and UDP,
Science & Engineering (Data Science)	Fourth	BCS453	CYBER SECURITY WORKSHOP	CO 3	understand and analyse captured traffic to identify signs of malware communication
and Computer Science & Engineering				CO 4	Understand network traffic analysis, detecting suspicious activities and demonstrate vulnerabilities.
Bachelor of Technology (Computer					Understand and set up various type of attacks loke ARP Poising, SQL injection, CSRP attack, Brute force and Dictionary attacks
Science & Engineering), Computer	711.10		ENERGY SCIENCE AND ENGINEERING	CO 1	understand about the basic of energy formation and its usage in one way or the other.
Science & Engineering (Data Science)	Third & Fourth	BOE 303/BOE 403		CO 2	Understand the basic fundamental of Nuclear Energy.
and Computer Science & Engineering				CO 3	understand solar energy formation and uses.
(Artificial Intelligence & Machine				CO 4	Get detailed Inowlwdge of renewable nad non renewable energy resource.
(assiss)				CO 5	Understand and recognize nemerous type of energy conservation norms at national and international level.
Bachelor of Technology (Computer			DATA BASE MANAGEMENT SYSTEM	CO-1	To understand the different issues involved in the design and implementation of database system.
cience & Engineering) and Computer	me.	VCCEGA		CO-2	To apply database queries in SQL, Relational algebra, tuple and domain calculus.
Science & Engineering (Data Science)	Fifth	KCS501		CO-3	To apply normalization techniques.
Girecting (para science)				CO-4	To apply concepts of transaction processing and distributed database.
				CO-5	To apply the concurrency control protocols.
Destruction of the second	Fifth	KCS 502		CO-1	Understand the phases of Compiler Design
Bachelor of Technology (Computer				CO-2	Apply the formal attributed grammar for specifying the syntax and semantics of programming languages
Science & Engineering) and Computer Science & Engineering (Data Science)			COMPILER DESIGN	CO-3	Apply different Parsing Techniques and error recovery techniques to generate parse trees
control of chighrening (Data Science)				CO-4	Apply Syntax directed Translation scheme to generate Translation
				CO-5	Apply Syntax directed Translation scheme to generate Translation
				CO-1	To understand the growth rate, performance measures and design paradigms of algorithms.
Bachelor of Technology (Computer		KCS 503		CO-2	To apply advanced data structures and various sorting algorithms.
cience & Engineering) and Computer	Fifth		Design and Analysis of Algorithm	CO-3	To apply string matching algorithms greedy 8 dynamic programming.
Science & Engineering (Data Science)				CO-4	To apply string matching algorithms, greedy & dynamic programming approaches to enhance problem solving skills. To interpret the approximation algorithms, randomized algorithms and NP complete problems
				CO-5	To analyze various problems and company and company and complete problems
				CO-1	To analyze various problems, and compare appropriate algorithmic design techniques for their solution
Bachelor of Technology (Computer				CO-2	To understand a wide various for various problem solving
cience & Engineering) and Computer	Fifth	KCS 055	MACHINE LEARNING	CO-2	To understand a wide variety of learning algorithms.
Science & Engineering (Data Science)		- A 200 A 100	The same committee		To analyze the latest trends in machine learning in comparision to conventional Method.
				CO-4	To apply appropriate machine learning algorithms to a real-world problems
				CO-5	To apply Genetic Algorithms to solve real world problems.
Bachelor of Technology (Computer				CO-1	To understand the Application development and analyze the insights of object oriented programming to implement application.
cience & Engineering (Data Science)	Fifth	KCS 054	ODJECT ODJENTED SYSTEM DESIGN	CO-2	To diderstand, Analyze and apply the role of overall modeling concepts (i.e system, structural)
	riidi	KC3 U54	OBJECT ORIENTED SYSTEM DESIGN	CO-3	To understand, Analyze and apply oops concepts (i.e abstraction, inheritance)
				CO-4	To learn concepts of C++ for understanding the implementation of object oriented concepts
		A	Tute or	CO-5	To learn the programming concepts to implement object oriented modeling.
Bachelor of Tochnol - 10		1/3	10×2°.	CO-1	To understand the basic features of indian modelity and constition.
Bachelor of Technology (Computer Science & Engineering) and Computer			131	CO-2	To understand and relate the functioning of indian parliament sytem at the center and state level.
Science & Engineering) and Computer Science & Engineering (Data Science)	Fifth	KNC501	MIT) & COI	CO-3	To understand the different aspect of indina legal sytrem and its related bodies.
conce of chighrening (Data Science)		(5)	101	CO-4	To understand the different laws and regulation related to engineering practices.
		1/3	1	CO-5	To understand the role of engineers in organization and governance model.
Rockeler of Technology /Committee		11	Mr. N. M.		To apply database language commands to create & implement the database.

ence & Engineering) and Computer	Fifth	KCS551	DBMS LAB	CO-2 1	o apply aggregare operators and SQL queries to retrieve records from the database.
cience & Engineering (Data Science)		11070000	, 55,115,010	CO-3 1	o apply the concepts of relational algebra, join and change it into SQL queries.
				CO-4 1	o apply PL/SQL for processing a database.
Bachelor of Technology (Computer				CO-1 1	o understand Lexical analyzer for if statement and Arithmetic expressions
cience & Engineering) and Computer	Fifth	KCS 552	CD LAB		o implement DFA and NFA
cience & Engineering (Data Science)	2,0,81		CD DAD	CO-3 T	o implement Shift Reduce Parser, Operator Precedence Parser and Recursive Decent Parser
				CO-4 1	o implement Code Generator and Code Optimization Techniques
Bachelor of Technology (Computer				CO-1 7	o analyze various sorting techniques.
cience & Engineering) and Computer	Fifth	KCS 553	DAA LAB	CO-2 7	o implement problems based on Divide and Conquer approach
icience & Engineering (Data Science)		NCJ 555	DAN DAB	CO-3 1	o implement problems based on using Greedy Approach
					To apply concepts of dynamic programming and Backtracking approach
Bachelor of Technology (Computer					To Identify the problem statement in the field of CS&E
cience & Engineering) and Computer	Fifth	KCS 554	Mini Declaret	CO-2 1	To Identify tools, techniques and software to provide the solution of identified problems
cience & Engineering (Data Science)	riidi	KC3 334	Mini Project		o demostrate an ability to work in a team
S (sold science)		210			o be able to write reoprt, and prepare a presentation
					To understand the fundamentals of software engineering .
Bachelor of Technology (Computer				CO-2 1	To understand the software quality assurance and standards.
cience & Engineering) and Computer	Sixth	KCS-601	SOFTWARE ENGINEERING		Fo explain the various strategies i.e. Design, Coding, Testing and Mantenance to develop software.
science & Engineering (Data Science)				CO-4	To calculate the various software related parameters i.e. size, time, cost etc
					To describe the various Software Tools.
				240 (95) (25)	Fo illustrate Web development Strategies, Protocols and basics of JAVA
Bachelor of Technology (Computer			WEB TECHNOLOGY	CO-2	To Model programs based on Java for Web applications, I/O and Socket programming.
cience & Engineering) and Computer	Sixth	KCS-602		CO-3	To model web pages using HTML, XML, CSS and JavaScript.
science & Engineering (Data Science)				CO-4	To Demonstrate enterprise level applications and payaborations in the base of
				CO-5	To Demonstrate enterprise level applications and apply operations in web databases using JDBC.
				CU-5	To use Servlets and JSPs to model interactive web applications.
			COMPUTER NETWORK	CO-1	Explain basic concepts, OSI reference model, services and role of each layer of OSI model and
Tre	U.S. 24			60.2	TCP/IP, networks devices and transmission media, Analog and digital data transmission
Bachelor of Technology (Computer	Sixth			CO-2	Apply channel allocation, framing, error and flow control techniques.
cience & Engineering) and Computer		KCS-603		CO-3	Describe the functions of Network Layer i.e. Logical addressing, subnetting & Routing
science & Engineering (Data Science)					Mechanism.
8,250,500,000,					xplain the different Transport Layer function i.e. Port addressing, Connection Management,
					rror control and Flow control mechanism.
				CO-5	explain the functions offered by session and presentation layer and their Implementation. Explain the different protocols used at application layer i.e. HTTP,
					NMP, SMTP, FTP, TELNET and VPN.
Parkets of the total				1400 000 000 000 000 000	To understand the fundamentals of Data Compression.
Bachelor of Technology (Computer	1	- 1,000	2020 223 00000000		To understand Scalar and Vector Quantization.
cience & Engineering) and Computer Science & Engineering (Data Science)	Sixth	KCS-604	DATA COMPRESSION	CO-3	To understand various compression techniques and models.
conte de chighrecting (Data Science)	F				To apply different encoding and decoding techniques.
					To understand the practical aspects of compression
Bachelor of Technology (Computer	11 11				Discuss various concepts related to entrepreneurship.
cience & Engineering) and Computer	Sixth	KOE060	IDEA TO BUSINESS MODEL	CO-2	Discuss concepts of production and communication process.
Science & Engineering (Data Science)	(उक्तावर्गी)		ISEN TO DOSINESS MODEL		Analyze entrepreneurial environment and entrepreneurial development program.
			Charles Control Control		Develop an appropriate business model.
			Control of the second		Apply the concept of errors to evaluate approximate roots
Bachelor of Technology (Computer	200			CO-2	Analysis of different interpolation methods to creatie interpolating graphs
cience & Engineering) and Computer	Sixth	KOE 065	CBNT	CO-3	Understand the concept of interpolation for numerical differentiation and integration
cience & Engineering (Data Science)				CO-4	Understand the concept of formula based solution of ordinary differential equations with initial condition
		/	se of To	CO-5	Apply the concept of partial differential equation to solve the partial differential equations
	To the state of	1/3	W8/		To recall the roots & challenges of Society State and Polity in ancient India.
Bachelor of Technology (Computer		1/5	1000 3		To understand the importance of Indian Literature, Culture, Tradition, & Practices .
cience & Engineering) and Computer	Sixth	KNC 602	n Tics	CO-3	To discuss Indian Religion, Philosophy & practices.
	4 7 7 7	11.5	Mr. Jell		To relate Holistic Lifestyle with rapid technological advancement.
Science & Engineering (Data Science)		1/3	15/	50 4	To reside the style with rapid technological advancement.
Science & Engineering (Data Science)		1100	**/	CO-5	To understand the contribution of Cultural Art & Architecture in Anglest India
Bachelor of Technology (Computer		1/3	V* N () ()	CO-5	To understand the contribution of Cultural Art & Architecture in Ancient India. To prepare requirement document for standard application problems in standard format.

Science & Engineering (Data Science)		WC2 021	3r. DO	CO-3	To implement various Behavioral diagrams using tools .
				CO-4	To implement reverse and forward engineering in java.
Bachelor of Technology (Computer				CO-1	To prepare the User Interface using HTML, CSS , Javascript and java.
Science & Engineering) and Computer	Sixth	KCS 652	WT LAB	CO-2	To illustrate the database connectivity.
Science & Engineering (Data Science)		NG5 032	WIDAB	CO-3	To install APACHE TOMCAT and database.
				CO-4	To design the server side application using session tracking API.
Bachelor of Technology (Computer				CO-1	Understanding different network topologies.
cience & Engineering) and Computer	Sixth	KCS 653	CHIAN	CO-2	Understanding and applying various framing methods of Data Link Layer
Science & Engineering (Data Science)	Sincil	KC3 033	CN LAB	CO-3	Understanding various Error and flow control techniques.
				CO-4	Applying network routing and addressing techniques
			The second secon	CO-1	To understand concepts of Entrepreneurship.
Bachelor of Technology (Computer	-1			CO-2	To understand conception of entrepreneursnip.
ience & Engineering) and Computer	Seventh	KHU701/802	PROJECT MANAGEMENT AND Entrepreneurship	CO-3	To understand regarding selection of business idea.
cience & Engineering (Data Science)			and the character of th		To understand concept of project management .
				CO-4	To understand project financing and budgetting.
				CO-5	To understand the social responsibility through social entreprenuership .
Bachelor of Technology (Computer				CO1	To understand the concept of Rural Development.
ience & Engineering) and Computer	Seventh	KHU701/802	RURAL DEVELOPMENT : ADMINISTRATION AND	CO2	To illustrate various rural development programmes.
cience & Engineering (Data Science)	33.5.00	10701/002	PLANNING	CO3	To understand various components of rural administration .
				CO4	To explain concept and methods of HRD and Nutritional Status .
	-			CO5	To interpret the concept about rural entrepreneurship and industralization
Bachelor of Technology (Computer				CO-1	Able to understand the renewable energy sources available at present.
cience & Engineering) and Computer	Councel	KOE074	RENEWABLE ENERGY & RESOURCE	CO-2	Able to understand the solar energy operation and its characteristics
cience & Engineering (Data Science)	Seventh			CO-3	To educate the wind energy operation and its types.
and a signed ing (bata science)				CO-4	To educate the tidal and geothermal energy principles and its operation.
				CO-5	Able to understand the biomass energy generation and its technologies.
				CO-1	To understand the concept of cloud computing
Bachelor of Technology (Computer	50.0	KCS713	CLOUD COMPUTING	CO-2	To expain the need, type and tools of virtualization for cloud.
ience & Engineering) and Computer	Seventh			CO-3	To understand fundamental concepts of cloud infrastructures and cloud storage
cience & Engineering (Data Science)				CO-4	To understand the resource provisioning methods and security challenges in cloud.
				CO-5	To introduce with various cloud technique metrous and security challenges in cloud.
	11 11 11 11 11			. CO-1	To introduce with various cloud technology like-HADOOP, Virtual Box etc.
Bachelor of Technology (Computer	0.00	KCS 077		CO-2	To understand the principles & problems of distributed systems.
cience & Engineering) and Computer	Seventh		DISTRIBUTED SYSTEM	CO-3	To solve problems in distributed Mutual Exclusion using various algorithms and methods.
cience & Engineering (Data Science)			DISTRIBUTED STSTEM		To analyze different Agreement Protocols in Distributed Systems.
				CO-4	To understand the concepts of Fault Tolerance and failure recovery of resources in distributed system.
		1000		CO-5	To analyze different distributed system transactions and concurrency controls.
Bachelor of Technology (Computer	100			CO-1	To implement the Functioning of Lamport and Vector Clocks.
ience & Engineering) and Computer	Seventh	KCS 751A	DISTRIBUTED SYSTEM LAB	CO-2	To implement deadlock detection algorithm in Distributed Environment.
cience & Engineering (Data Science)				CO-3	To design distributed programs using sockets and RMI balanced and Sliding Window protocol.
	-			CO-4	To implement a distributed chat server using TCP socket and CORBA mechanism.
Bachelor of Technology (Computer	in lay 11 and			CO-1	To identify a problem statement based on real world problem
ience & Engineering) and Computer	Seventh	KCS 753	Project	CO-2	To be able to formulate the work plan and write synopsis
tience & Engineering (Data Science)				CO-3	To identify the state-of-the-art tools, techniques, and platform to provide the solution of the identified problem statement
				CO-4	To demostrate an ability to work in a team
Dasheles of Tools of			The state of the s	CO-1	Discuss the concepts of data warehousing and Data Mining
Bachelor of Technology (Computer	25000			CO-2	Explain the basic concepts of data visualization
ience & Engineering) and Computer ience & Engineering (Data Science)	Eigth	KOE 093	DATA WAREHOUSE AND DATA MINING	CO-3	Apply the process of warehouse planning, design and technology.
cince of Engineering (Data Science)		DEVIL OF THE		CO-4	Use the concepts of data mining with different techniques of data pre-processing
			4 66	CO-5	Analyze different algorithms of data classification and data clustering.
		1/5	Wall and the second	CO-1	To understand the concent of Extremosurable and a large than the
Jachelor of Technology (Computer ience & Engineering) and Computer	Eigth	KOED83	Entrepreneurship Development	CO-2	To understand the concept of Entrepreneurship and to learn the professional behavior expected of an entrepreneur. To identify significant changes and trends which create business opportunities and to analyze the environment for potential business opportunities.
cience & Engineering (Data Science)	900			CO-3	To understand the accountancy quality control inventory management as the last
		1131	311	CO-4	To understand the accountancy, quality control, inventory management and budgeting in entrepreneurship.
		112.	15/		To provide conceptual exposure on converting idea to a successful entrepreneurial firm.
			37 //	CO-5	To understand the laws and business ownership in entrepreneurship.

nce & Engineering) and Computer	Eighth	VCC CC4	2 750 400	CO-2	To be able to formulate the work plan to develop the project
ence & Engineering (Data Science)	cignin	KCS 851	Project 1	CO-3	to identify the state-of-the-art tools, techniques, and eletform to provide the state-of-the-art tools, techniques, and eletform to provide the state-of-the-art tools.
Charles and Charles and Charles				CO-4	to identify the state-of-the-art tools, techniques, and platform to provide the solution of the identified problem statement. To be able to write report, and prepare a presentation.
				CO-1	To Introduce the concept of Data Analytics Lifecycle.
achelor of Technology Computer				CO-2	To Develop Mathematical concepts required for advance regression.
ience & Engineering (Data Science)	Fifth	KDS501	Data Analytics and Vizualization	CO-3	To Understand data modeling in time series and its process.
J (Partie Section)			The second secon	CO-4	To understand about Text analytics and its applications.
				CO-5	To provide overview of Data analytics and visualization with R and Python.
				CO 1	To understand the phenomenon of charge carriers and energy bands in semiconductors and solid state devices,
				CO 2	To describe the characteristics of the p-p junction diode and same entrelled to the characteristics of the p-p junction diode and same entrelled to the characteristics of the p-p junction diode and same entrelled to the characteristics of the p-p junction diode and same entrelled to the characteristics of the p-p junction diode and same entrelled to the p-p junction diode and sa
Bachelor of Technology					To describe the characteristics of the p-n junction diode and some optoelectronic devices and their application in electronic circuits. To explain the structure and characteristics of MOSETT and to apply to the DC big direction.
Electronics & Communication Engineering)	Third	BEC301	Electronic Devices	CO 3	To explain the structure and characteristics of MOSFETs and to analyze the DC bias circuits, small-signal AC circuits with emphasis on single stage MOSFET amplifiers.
				CO 4	To examine the structure and characteristics of BJT and to analyze the DC bias circuits, small-signal AC circuits with emphasis on single stage BJT amplifiers.
				CO 5	To understand the various feedback topologies in electronic circuits and basic principle of oscillation in various sinusoidal oscillators.
Bachelor of Technology				CO 1	To convert different type of codes and number systems which are used in digital communication and computer systems
Electronics & Communication	Third	DECCO	200.00	CO 2	To understand, analyze, and design combinational logic circuits and their various applications also.
Engineering)		BEC302	Digital System Design	CO 3	To understand, analyze, and design Synchronous Sequential logic circuits and their various applications also
cugnicernig)		MALE RES		CO 4	To understand, analyze, and design Synchronous Sequential logic circuits and their various applications also
				CO 5	To understand different types of Memory System and Logic families.
Bachelor of Technology				CO 1	To apply mesh & nodal analysis to complex circuits and express them using Theyenin's and Norton's equivalent forms
Electronics & Communication	Third	DEC202	Network Analysis & Synthesis	CO 2	To evaluate the performance of RL, RC, and RLC circuits by the application of Laplace transform.
Engineering)	Third	BEC303		CO 3	to apply use graph theory in solving networks.
engineering)				CO 4	To analyze the given network using different two port network parameters.
				CO 5	To determine the response of a network using network functions & synthesize network functions.
One halour of Total			Electronic Devices Lab	CO 1	To understand and verify the working of different diodes, transistor amplifiers (BJT & FET), Operational amplifier, Sinusoidal Oscillators, CRO probes and measuring instruments.
Bachelor of Technology Electronics & Communication	Third	BEC351		CO 2	To design the circuits with semiconductor devices (Diodes, BJT, and FET etc.), passive components, measuring instruments and power supplies that serve many practical purposes.
Engineering)				CO 3	To construct, analyze and troubleshoot the designed circuit.
				CO 4	To measure and record the experimental data and analyze the results.
				CO 5	To simulate the electronic circuits using PSPICE simulator software and verify the results physically on bread-boards.
Pachalas of Tark				CO 1	To understand various digital ICs and their datasheet.
Bachelor of Technology				CO 2	To implement Boolean function using logic gates on bread Board.
Electronics & Communication	Third	BEC352	Digital System Design Lab	CO 3	To implement various combinational circuits on bread board using different Logic gates ICs
Engineering)				CO 4	To Verify of state tables of various flip-flops using NAND & NOR gates
				CO 5	To design the 4-bit synchronous and Asynchronous counter
	ALAS R			CO 1	Understand basics of electrical circuits with nodal and mesh analysis.
Bachelor of Technology	=4/4/220	BEC353		CO 2	Appreciate electrical network theorems.
lectronics & Communication	Third		Network Analysis & Synthesis Lab	CO 3	Analyse RLC circuits.
Engineering)	0 = 1 0			CO 4	Determine the stability of an electrical circuit.
				CO 5	Design network filters.
			The state of the s		Understand the basic concepts of cyber security and cybercrimes. K1, K2
Bachelor of Technology	Victory des			CO 2	Understand the security policies and cyber laws. K1, K2
Electronics & Communication	Third	BCC301	Cyber Security	CO 3	Understand the tools and methods used in cyber raims K2
Engineering)				CO 4	Understand the concepts of cyber forensics K1, K2
		1	he of	CO 5	Understand the cyber security policies and cyber laws
		1/3	- X & N		To generate a report based on the experiences and projects carried out with the ability to a second or sec
		1151	2	CO 1	To generate a report based on the experiences and projects carried out with the ability to apply knowledge of Mathematics, Science, and Engineering Fundamentals.
Bachelor of Technology		112/1	TISI TISI	CO 2	
lectronics & Communication	Third	BCC35t	CM ni Project/ intership	CO 3	To demonstrate competency in relevant engineering fields through problem identification, formulation and solution. To implement skills in communication, in writing and using multimedia tools.
Engineering)		1181	18/		The same of the continuous and using multimedia tools.
		1 ×	Marrie *	CO 4	To develop the ability to work as an individual and in any or it is the
The same of the sa			AGE!	CO 5	To develop the ability to work as an individual and in group with the capacity to be a leader or manager as well as an effective team member. To learn professional and ethical responsibilities of an engineer.

				CO 1	Students will be able to UNDERSTAND the nature and objective of Technical Communication relevant for the work place as Engineers.	
Bachelor of Technology				CO 2	Students will be able to DEVELOP an understanding of key concepts of writing, designing and speaking.	
Electronics & Communication	Third	BAS301	Technical Communication	CO 3	Students will be able to UTILIZE the technical writing skills for the purposes of Technical Communication and its exposure in various dimensions.	
Engineering)				CO 4	Students will be able BUILD UP interpersonal communication traits that will make the transition	
				COS	from institution to workplace smoother and help them to excel in their jobs Students will be able to APPLY technical communication to build their personal brand and handle	
				CO.1	crisis communication	
Bachelor of Technology				CO 1	The idea of partial differential equation and its different types of solution.	
Electronics & Communication	Fourth	BAS403	Math-IV	CO 3	The concept of method of separation of variables and Fourier transform to solve partial differential equations	
Engineering)	100.00	Dr.5-105	Matthia	CO 4	The basic ideas of statistics including measures of central tendency, correlation, regression and their properties.	
, , , , , , , , , , , , , , , , , , ,				CO 5	The idea of probability, random variables, discrete and continuous probability distributions and their properties.	
				CO 1	The statistical methods of studying data samples, hypothesis testing and statistical quality control.	
Bachelor of Technology				CO 2	To understand about the need of value education and harmony in self, family, society and nature.	
Electronics & Communication	Fourth	BVE401	Universal Human Values & Professional Ethics	CO 3	To apply the understanding of value education to ensure harmony at all the four levels of living.	
Engineering)	Tourth	010401	Universal Human Values & Professional Ethics	-	To analyze about self, feelings in relationship, society and relevance of nature.	
a				CO 4	To evaluate their participation at all the four levels of living.	
				CO 1	To improve their emotional, social and professional competence.	
Bachelor of Technology				CO 2	Analyze and compare different analog modulation schemes for their efficiency and bandwidth.	
lectronics & Communication	Fourth	BEC401	Communication Engineering	CO 3	Analyze the behavior of a communication system in presence of noise.	
Engineering)	, our air	000-01		CO 4	Investigate pulsed modulation system and analyze their system performance.	
				CO 5	Investigate various multiplexing techniques. Analyze different digital modulation schemes and compute the bit error performance.	
				CO 1	Understand and design of the various amplifiers.	
Bachelor of Technology			Analog Circuit	CO 2	Understand the concept of feedback topologies.	
lectronics & Communication	Fourth	BEC402		CO 3	Design the different types of oscillators.	
Engineering)				CO 4	Understand the functioning of OP-AMP and design OP-AMP based circuits.	
				CO 5	Apply the concept of Operational amplifier to design linear and non-linear applications	
				003		THE REAL PROPERTY AND ADDRESS OF THE PERTY
				CO 1	To understand the concept of continuous time and discrete time signals / Systems.	
Bachelor of Technology				Contract of	To understand the behavior of continuous time and discrete time signals	
Electronics & Communication	Fourth	BEC403	Signal System	CO 2	/ systems.	
Engineering)	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Signal System	CO 3	To analyze the behavior of continuous time and discrete time systems.	
				CO 4	To analyze signals in complex frequency domain.	
	1			CO 5	To understand Sampling theorem and its implications.	
				003	Analyze and compare different analog modulation schemes for their modulation factor and	
Bachelor of Technology	i lea i			CO 1	power.	14617
lectronics & Communication	Fourth	BEC451	Communication Engg. Lab	CO 2	Study pulse amplitude modulation.	
Engineering)		2000000		CO 3	Analyze different digital modulation schemes and can compute the bit error performance.	
				CO 4	Study and simulate the Phase shift keying.	
				CO 5	Design a front end BPSK modulator and demodulator	
Parkeles of Tall 1				CO 1	Understand the characteristics of transistors.	
Bachelor of Technology	Miles de la Tele			CO 2	Design and analyze various configurations of amplifier circuits.	
lectronics & Communication	Fourth	BEC452	Analog Circuit Lab	CO 3	Design sinusoidal and non-sinusoidal oscillators.	
Engineering)				CO 4	Understand the functioning of OP-AMP and design OP-AMP based circuits.	E WENTER
				CO 5	Design ADC and DAC.	
		/		CO 1	To understand plotting of basic signals using various operations like amplitude-scaling, time-scaling, etc.	
Bachelor of Technology		1/00	19 06	CO 2	To understand knowledge about Convolution, auto-correlation, cross- correlation of signals	
lectronics & Communication	Fourth	BEC453	Signal System Lab	CO 3	To analyze and plot Fourier series, Fourier transform and z-transform of a given signal.	
Engineering)		1/2/	1 3	CO 4	To acquire and understand knowledge about impulse response and step response using MATLAB	
The second second		121	11 2	CO 5	To analyze plot of pole-zero diagram & bode diagram using MATLAB.	A STATE OF THE STA
		1101	108 11	CO 1	Interpret the fundamental Python syntax and semantics and be fluent in the use of Python control flow	

Bachelor of Technology				CO 2	Express proficiency in the handling of strings and functions
Electronics & Communication Engineering)	Fourth	BCC402	Python Programming	CO 3	Determine the methods to create and manipulate Python programs by utilizing the data structures like lists, dictionaries, tuples and sets.
- B. I. C. I. G.				CO 4	Identify the commonly used operations involving file systems and regular expressions.
				CO.F.	Articulate the Object-Oriented Programming concepts such as encapsulation, inheritance and
				CO 5	polymorphism as used in Python
	0-1			CO 1	To understand the basic concepts of analog ICs and related circuits.
Bachelor of Technology				CO 2	To understand the basic concepts of digital ICs and related circuits.
Electronics & Communication	Fifth	KEC501	Integrated Circuit	CO 3	To analyze analog and digital circuits.
Engineering)				CO 4	To design OP-AMP based analog linear integrated circuits.
				CO 5	To design OP-AMP based analog non-linear integrated circuits.
				CO 1	Demonstrate the basic architecture of 8085.
				CO 2	Illustrate the programming model of microprocessors & write program using 8085microprocessors
Bachelor of Technology (Electronics & Communication	ENL	urara.		CO 3	Demonstrate the basics of 8086 Microprocessor and interface different external Peripheral Devices like timer, USART etc. with Microprocessor (8085/8086).
	Fifth	KEC502	Microprocessor & Microcontroller	1980	Compare Microprocessors & Microcontrollers, and comprehend the architecture of 8051
Engineering)				CO 4	microcontroller
				CO 5	Illustrate the programming model of 8051 and implement them to design projects on real time problems.
Deskales of T. C.				CO 1	To understand the basic concepts and terminologies of digital signal processing and filter design.
Bachelor of Technology	100	and the same		CO 2	To apply different transformation tools for the analysis of discrete time signals and systems.
Electronics & Communication	Fifth	KEC503	Digital Signal Processing	CO 3	To apply concepts of digital signal processing for finding various parameters and design of different circuits/systems.
Engineering)			CO 4	To analyze different filters for digital signal processing.	
				CO 5	To design different filter structures on the basic of different realization methods.
	helor of Technology onics & Communication Fifth KEC053 VLSI Technology CO 1 Interpret the basics of crystal CO 2 Evaluate the process of Epitax CO 3 Differentiate the lithography,	CO 1	Interpret the basics of crystal growth, wafer preparation and wafer cleaning.		
			CO 2	Evaluate the process of Epitaxy and oxidation.	
ACTION IN TAXABLE PROPERTY OF THE PROPERTY OF THE PARTY O		Differentiate the lithography, etching and deposition process.			
Engineering)				CO 4	Analyze the process of diffusion and ion implantation
				CO 5	Express the basic process involved in metallization and packaging
				CO 1	To understand the fundamentals of optical fiber communication system and related terminologies.
Bachelor of Technology	1		A CONTRACTOR OF THE PARTY OF TH	CO 2	To calculate various parameters related to optical fiber communication.
Electronics & Communication	Fifth	KEC058	Optical Communication	CO 3	To classify the various sources of optical fiber communication.
Engineering)				CO 4	To apply concepts related to optical sources in solving problems.
				CO 5	To assess the various detectors of optical fiber communication.
				CO 1	To study wave shaping circuits to generate different types of waveforms and to perform voltage to current, current to voltage conversion.
				CO 2	To analyze and design different non-linear applications of operational amplifiers such as filters and oscillator etc.
Bachelor of Technology				CO 3	To design astable and monostable multivibrator using 555 timer IC.
(Electronics & Communication	Fifth	KEC551	Integrated Circuit Lab	CO.4	To study operational amplifier analog IC-741 and to analyze and design different linear applications of operational amplifiers such as integrator, log, antilo
Engineering)	AT STATE			CO 4	amplifiers and voltage comparators.
	RP			CO 5	To determine capture range, lock in range and free running frequency of PLL and will be able to understand and design voltage regulation methods.
Bachelor of Technology				CO 1	To determine the flow of data/code throughout the system using basic instructions of 8085.
Electronics & Communication	Fifth	KEC552	Microprocessor & Microprocessor Land	CO 2	To Implement simple programs in CCS and differentiate the features of MSP430 G series with 8085.
Engineering)		NEC332	Microprocessor & Microcontroller Lab	CO 3	To evaluate the performance of external devices on CCS, Energia or any other software.
	CO 4 To analyze the performance of the previous setup Using MSP430 F series.				
		707		CO 5	To create PWM applications in projects with help of UART, SPI and I2C modules.
Bachelor of Technology	1000			CO 1	To study about DSP Processors and architecture of TMS320C6713 DSP processor and Code Composer Studio.
Electronics & Communication	Fifth	KEC553	Digital Signal Processing Lab	CO 2	To plot basic signals using MATLAB.
Engineering)		mc033	Digital Signal Processing Lab	CO 3	To apply CCS in matrix manipulations.
		1/8	The state of the s	CO 4	To calculate 4 point discrete Fourier analysis using MATLAB.
		1/5/	121	CO 5	To implement 8 point FFT algorithm using MATLAB.
Pachelos of To 1		(t)	MIT) §	CO 1	To generate a report based on the experiences and projects carried out with the ability to apply knowledge of Mathematics, Science, and Engineering Fundamentals.
Bachelor of Technology	F16.1	100	Magrus Vini Project/ intership	CO 2	To demonstrate competency in relevant engineering fields through problem identification, formulation and solution.
(Electronics & Communication	Fifth	KEC 554	Mini Project/ intership	CO 3	To implement skills in communication, in writing and using multimedia tools.

The second secon					
Engineering)				CO 4	
					To develop the ability to work as an individual and in group with the capacity to be a leader or manager as well as an effective team member.
				CO 5	To learn professional and ethical responsibilities of an engineer.
Bachelor of Technology				CO 1	Identify and explore the basic features and modalities about Indian constitution.
(Electronics & Communication	Fifth	KNC 501	Constitution of India, law and Engineering	CO 2	Differentiate and relate the functioning of Indian parliamentary system at the center and state level.
Engineering)	T at Cal	NIC JUL	Constitution of India, law and Engineering	CO 3	Differentiate different aspects of Indian Legal System and its related bodies.
5.00				CO 4	Discover and apply different laws and regulations related to engineering practices.
				CO 1	Correlate role of engineers with different organizations and governance models
Bachelor of Technology				CO 2	To understand basic concepts and terminologies of digital communication systems
(Electronics & Communication	Sixth	KEC- 601	Digital Communication	CO 3	To apply concepts of baseband, pass band digital modulation schemes in finding different parameters and performances
Engineering)	-354		J. Gran Communication	CO 4	To apply fundamentals of probability theory and random process in solving different problems related to digital communications
				CO 5	To analyze baseband, pass band digital modulation schemes and corresponding performances
				CO 1	To evaluate the performances of baseband, pass band digital communication systems in noisy environment
Bachelor of Technology				CO 2	To understand basic concepts of a control system.
(Electronics & Communication	Sixth	KEC- 602	Control System	CO 3	To develop the mathematical model of various physical systems.
Engineering)	1.00000		Some Safatem	CO 4	To carry out the time domain analysis of first and higher order systems.
				COS	To evaluate the stability of linear control systems using Routh Hurwitz Criteria and Root Locus Technique.
				CO 1	To evaluate the stability of linear control systems using different frequency domain techniques like Nyquist criteria and Bode plots. To understand the basics of antenna and their parameters.
Bachelor of Technology				CO 2	To classify different types of antenna and their parameters.
(Electronics & Communication	Sixth	KEC- 603	Antenna and Wave Propagation	CO 3	To analyze basis propagation models and propa
Engineering)	500000	20000007535500		CO 4	To analyze basic propagation models and propagation mechanism for EM waves. To evaluate performance of antennas.
				CO 5	To assess designed antenna w.r.t existing criteria.
				CO 1	Define and list the benefits of satellite communication.
Bachelor of Technology			Satellite Communication	CO 2	Demonstrate orbital mechanics principles of satellite communication.
(Electronics & Communication	Sixth	KEC- 062		CO 3	Demonstrate orbital mechanics principles of satellite communication systems and solve problems related to it. Describe a satellite link and identify ways to improve the link performance.
Engineering)				CO 4	Classify new technologies of satellite communication systems as per given specifications.
				CO 5	Examine advanced technologies of satellite launching and describe the Indian satellite system.
				CO 1	To plot a triangular and square wave using Fundamental frequency and its harmonics.
Bachelor of Technology		KEC- 651		CO 2	To understand various baseband digital modulation and demodulation techniques such as PCM and Delta Modulation.
(Electronics & Communication	Sixth		Digital Communication LAB	CO 3	To understand the line coding fundamentals i.e. coding and decoding of NRZ and Manchester formats.
Engineering)				CO 4	To understand various pass band digital modulation and demodulation techniques such as ASK, FSK & PSK.
				CO 5	To understand and perform QPSK, DPSK, 8PSK and 16PSK Techniques and convolutional coding using MATLAB.
	PER LEGIC			CO 1	To understand control Tool box in MATLAB.
Bachelor of Technology			in the second se	CO2	To determine various mathematical operations using MATLAB.
(Electronics & Communication	Sixth	KEC- 652	Control System LAB	CO 3	To analyze a system in time domain using MATLAB.
Engineering)				CO 4	To analyze a system in frequency domain using MATLAB.
				CO 5	To determine the State Space representation of the given transfer function.
	1.			CO 1	To understand practical performance of the operational features of various analog and digital test and measurement equipments.
Bachelor of Technology			The state of the s	CO 2	To analysis various standard bridges for measurement of unknown resistance, inductance and capacitance, Q factor.
(Electronics & Communication	Sixth	KEC- 653A	Measurement & Instrumentation LAB	CO 3	To measure true RMS value using analog meter using digital Multimeters.
Engineering)				CO 4	To study of characteristics of different types of transducers, generation of waveforms and calibration procedures.
				CO 5	To use Resistance temperature detector (RTD) for measurement of temperature.
100	THE RESERVE		THE REAL PROPERTY.	155	Enhance creative knowledge of students regarding selection of a business idea and it's
				CO 1	implementation process
Bachelor of Technology			The state of the s	CO2	Acquire knowledge on entrepreneurship development, its Pro's and con's.
(Electronics & Communication	Sixth	KOE-060	Idea to Business Model	CO 3	Acquire basic knowledge on how to become an Entrepreneur.
Engineering)				Transcal I	Develop knowledge on Production systems and it's sustainability through production, planning
			19 00	CO 4	and control (PPC)
and the second second second		/ctito		CO 5	Develop appropriate business model and apply in a better way.
		115/1	10 201	CO 1	Students can understand the definitions, concepts and components of Rural Development
Bachelor of Technology	DI GUERNA	115/K	MT 3	CO 2	Students will know the importance, structure, significance, resources of Indian rural economy.
(Electronics & Communication	Seventh	KHU DOZ	Rural Development Adminstration And Planning	CO 3	Students will have a clear idea about the area development programmes and its impact.
Engineering)		100	1811	CO 4	Students will have a clear idea about the area development programmes and its impact. Students will be able to acquire knowledge about rural entrepreneurship.
		11.	1.*		Students will be able to understand about the using of different methods for human resource planning

				CO 1	To define basic concepts about the generation, multiplexing and switching techniques of Optical Networks and Non linear effects encountered during transmission.
Bachelor of Technology	-			CO 2	
Electronics & Communication	Seventh	KEC073	Optical Network		To classify ideas or concepts about different components and their principle of operation, grating techniques, cross talk problem and its reduction.
Engineering)				CO 3	To use information to operate SONET and SDH optical networks, ATM, IP, WDM, optical amplifiers, optical ADD/DROP MUX.
				CO 4	To draw connection among ideas to relate WDM Network cost trade off, network survivability, layer protection and overview of HFC, FTTC and PON evolution
				CO 5	To justify a stand or defend to select optical switching, OTDM and deployment consideration of networks.
				CO 1	To understand the basic concepts of wireless & mobile communication and related terminologies.
Bachelor of Technology	April 1997			CO 2	To examine different models of channels and equalizers used in WMC.
Electronics & Communication	Seventh	KEC076	Wireless & Mobile Communication	CO 3	To explain & differentiate the concepts of spread spectrum modulation
Engineering)				CO 4	To apprise the concepts of different multiplexing and accessing Techniques used in WMC.
				CO 5	To develop the different concepts of WMC systems for solving related problems.
				CO 1	To remember the difference between analog and digital link.
Bachelor of Technology	201100000000000000000000000000000000000			CO 2	To understand the different losses in optical fiber communications.
lectronics & Communication	Seventh	KEC751C	Optical System & Networking Lab	CO 3	To understand Time Division Multiplexing and role of coding / decoding in framing.
Engineering)				CO 4	To analyze radiation pattern of Light emitting diode (LED)
				CO 5	To analyze modulation and demodulation of analog/ digital signal in optical fiber.
					To generate a report based on the experiences and projects carried out with the ability to apply knowledge of Mathematics, Science, and Engineering
				CO 1	Fundamentals.
Bachelor of Technology				CO 2	To demonstrate competency in relevant engineering fields through problem identification, formulation and solution.
Electronics & Communication	Seventh	venth KEC752	Mini Project or Internship Assesment	CO 3	To implement skills in communication, in writing and using multimedia tools.
Engineering)					The state of the s
				CO 4	To develop the ability to work as an individual and in group with the capacity to be a leader or manager as well as an effective team member.
				CO 5	To learn professional and ethical responsibilities of an engineer.
				CO 1	To apply knowledge gained during II,III and IV year for project development.
Bachelor of Technology	or of Technology		CO 2	To design software for making new project related to electronics and communication.	
ectronics & Communication	Seventh	KEC753	Project-I	CO 3	To Design new project using tools and kits.
Engineering)				CO 4	To develop and fabricate new project.
				CO 5	To analyze, communicate and present the project.
				CO 1	
Bachelor of Technology				CO 2	To summarize the different methods to assess the attractiveness of business opportunities.
Electronics & Communication	Eighth	KOE-083	ENTREPRENEURSHIP DEVELOPMENT	CO 3	To explain the various characteristics for an attractive business opportunity and common pitfalls during the entrepreneurial process.
Engineering)			and the transfer in the transf	CO 4	To design, organize, and lead a team with the goal of bringing new products and services to market.
				CO 5	To write report on a business plan of a new venture of product and service industry.
				-	To analyze the concepts of systematic process to select and screen a business idea and asses its viability.
Bachelor of Technology	220			CO 1	To understand the basic terms of thermodynamics:
Mechanical Engineering)	Third	BME301	THERMODYNAMICS	CO 2	To apply I law to various energy conversion devices:
and an amount growing,				CO 3	To evaluate the changes in properties of substances in various processes:
				CO 4	To understand the difference between high grade and low-grade energies
				CO 1	Understand the application of mass and momentum conservation laws for fluid flows.
Bachelor of Technology	Third	0145303	FUED MEGUANICE AND ELVIS AND ALLE	CO 2	Understand the importance of dimensional analysis.
Mechanical Engineering)	Trillo	BME302	FLUID MECHANICS AND FLUID MACHINES	CO 3	Evaluate the velocity and pressure variations in various types of simple flows.
				CO 4	Mathematically analyze the flow in water pumps and turbines.
				CO 5	Understand about the functioning of centrifugal and reciprocating pumps.
The second of the second of				CO 1	Students will be able to identify the crystal structure and measure the mechanical properties of materials.
Bachelor of Technology	Third			CO 2	Students will be able to test the various failures of materials.
Mechanical Engineering)	Third	BME303	MATERIALS ENGINEERING	CO 3	Students will be able to identify the mechanical properties based on composition of micro-constituents depicted in the phase-diagram.
				CO 4	Students will understand the concept of improving the mechanical properties through heat treatment.
				CO 5	Students will learn the structure and properties of alloys and composites.
			10.00	CO 1	Understand the principles and performance characteristics of flow and thermal devices.
Bachelor of Technology		Title .	The state of the s	CO 2	Know about the measurement of the fluid properties
Mechanical Engineering)	Third	BME351/5	CAVID MECHANICS LAB	CO 3	Understand and analyze various properties of fluids
gg/	Co. C. C.	11 ± 1 .	VAIT 1811	CO 4	Evaluate the performance characteristics of fluid/thermal machinery
	A COST	rut	MILL S	CO 5	Evaluate the velocity and pressure variations in various types of simple flows.
Rachalor of Technology		110	/6//	CO 1	Students will be able to perform different destructive and non-destructive testing methods to measure various mechanical properties.

(Mechanical Engineering)	Third	BME352	MATERIALS TESTING LAB	CO 2	Students will be able to analyse the effect of different heat-treatment processes on the Hardness.
(Wechanical Engineering)				CO 3	Students will be able to simulate the material using simulating software / measure the mechanical properties of 3-D printed components.
				CO 1	Understand and apply 2D software to develop a part model
Bachelor of Technology				CO 2	Understand about temporary and permanent fasteners
Mechanical Engineering)	Third	BME353	COMPUTER AIDED MACHINE DRAWING-I LAB	CO 3	Understand the need for free hand sketching, Free hand sketching of foundation bolts etc.
(meananean Engineering)				CO 4	Create assembly drawing of simple machine elements like rigid or flexible coupling
				CO 5	Create 2D drawings and assemblies of various machine components
				CO 1	To learn about Air Standard Cycle.
Bachelor of Technology				CO 2	To learn about of I law for reacting systems and heating value of fuels.
(Mechanical Engineering)	Fourth	BME401	APPLIED THERMODYNAMICS	CO 3	To learn about gas and vapor cycles
3,				CO 4	To learn about gas dynamics of air flow and steam through nozzles.
				CO 5	To analyze the performance of steam turbines.
				CO 1	Understand the force systems and application of force equilibrium to various two-dimensional problems.
Bachelor of Technology	-	2002-000	ENGINEERING MECHANICS & STRENGTH OF	. CO 2	Understand the concept of stress and strain under different loading conditions.
(Mechanical Engineering)	Fourth	BME402	MATERIAL	CO 3	Determine the principal stresses and strains in structural members
3/				CO 4	Understand and determine the stresses, slope, and deflection of the transversely loaded members
				CO 5	Apply the concepts of stresses and strain in solving problems related to springs, buckling of columns and thin and thick cylinders.
			MANUFACTURING PROCESSES	CO 1	Students will learn the various conventional manufacturing processes / casting and forming processes.
Bachelor of Technology		BME403		CO 2	Students will understand the concepts of metal cutting and CNC machining.
(Mechanical Engineering)	Fourth			CO 3	Students will comprehend the knowledge of grinding and super finishing processes.
3				CO 4	Students will understand the concepts of metal joining processes.
				CO 5	Students will learn the concepts of unconventional machining processes.
Bachelor of Technology (Mechanical Engineering)		245454	APPLIED THERMODYNAMICS LAB	CO 1	To understand the principles of various boilers:
	Fourth	BME451		CO 2	To understand the basic principles IC engines and determination of various performance parameters of IC Engines:
				CO 3	To understand the principles of steam engine and Steam & Gas Turbine:
Bachelor of Technology	Court		MANUFACTURING PROCESSES LAB	CO 1	Students will be able to make the component using casting and finishing methods.
Mechanical Engineering)	Fourth	BME452		CO 2	Students will be able to make the component using metal cutting / unconventional machining methods.
•				CO 3	Students will be able to make the component using metal joining processes
	Fourth	BME453	COMPUTER AIDED MACHINE DRAWING-II LAB	CO 1	Understand and apply 3D software to develop a part model
Bachelor of Technology				CO 2	Understand conventional representation of machine components, and welded joints
(Mechanical Engineering)	Fourth			CO 3	Understand and apply the basis of fit or limit system
				CO 4	Understand about Plummer Block Bearing, Machine Vice, Screw Jack, Engine Stuffing box.
				CO 5	Create 3D part models and assemblies of various machine components
	ev Box	KME 501		CO 1	Understand the fundamentals of heat and mass transfer.
Bachelor of Technology				CO 2	Apply the concept of steady and transient heat conduction.
(Mechanical Engineering)	Fifth		Heat and Mass Transfer	CO 3	Apply the concept of thermal behavior of fins.
(wechanical Engineering)				CO 4	Apply the concept of forced and free convection.
				CO 5	Apply the concept of radiation for black and non-black bodies.
				CO 6	Conduct thermal analysis of heat exchangers.
				CO 1	Understand the concept of stress and strain under different conditions of loading
Bachelor of Technology				CO 2	Determine the principal stresses and strains in structural members
(Mechanical Engineering)	Fifth	KME 502	Strength of Material	CO 3	
(Modifical Engineering)				CO 4	Apply the concepts of stresses and strain in solving problems related to springs, column and pressure vessels
				CO 5	The state of the s
		THE PERSON		CO 6	Analyze the stresses developed in straight and curved beams of different cross sections
	TO JUST THE STATE OF			CO 1	Understand the concept of production system, productivity, facility and process planning in various industries
Bachelor of Technology	Fifth	VME EOS	Indicated Factor of	CO 2	Apply the various forecasting and project management techniques
Mechanical Engineering)	Filti	KME 503	Industrial Engineering	CO 3	Apply the concept of break-even analysis, inventory control and resource utilization using queuing theory
			te of the	CO 4	Apply principles of work study and ergonomics for design of work systems
		113		CO 5	Formulate mathematical models for optimal solution of industrial problems using linear programming approach
		113/	13	CO 1	Apply the concept of conductive heat transfer. K3
Bachelor of Technology	C:er	KME 5512	MALL ISIL	CO 2	Apply empirical correlations for both forced and free convection to determine the value of convection heat transfer coefficient
(Mechanical Engineering)	Fifth	KME 581	Hear and Mass Transfer Lab	CO 3	Apply the concept of radiation heat transfer for black and grey body.
	1	10	1.5	CO 4	Analyze the thermal behaviour of parallel or counter flow heat exchangers
		113		CO 5	Conduct thermal analysis of a heat pipe

				CO 1	Understand the basic concepts of automation, computer numeric control machining
Bachelor of Technology (Mechanical Engineering)		KME 051	Computer Integrated Manufacturing	CO 2	Understand the algorithms of line generation, circle generation, transformation, curve, surface modeling and solid modeling
	Fifth			CO 3	Understand group technology, computer aided process planning, flexible manufacturing, Industry 4.0, robotics
				CO 4	Understand information system and material handling in CIM environment, rapid prototyping
				CO 5	Apply the algorithms of line & circle generation and geometric transformations
				CO 6	Develop CNC program for simple operations
	Fifth			CO 1	Understand the physics of arc welding process and various operating characteristics of welding power source.
Bachelor of Technology		VAAE OFF		CO 2	Analyse various welding processes and their applications.
(Mechanical Engineering)	Filui	KME 055	Advance welding	CO 3	Apply the knowledge of welding for repair & maintenance, along with the weldability of different materials.
			The second second	CO 4	Apply the concept of quality control and testing of weldments in industrial environment.
				CO 5	Evaluate heat flow in welding and physical metallurgy of weldments.
	100			CO 1	Understand the basics concepts of Refrigeration & Air-Conditioning and its future prospects.
Bachelor of Technology				CO 2	Explain the construction and working of various components in Refrigeration & Air-Conditioning systems.
	Sixth	KME 601	Refrigeration & Air Conditioning	CO 3	Understand the different types of RAC systems with their respective applications.
(Mechanical Engineering)				CO 4	Apply the basic laws to the thermodynamic analysis of different processes involved in Refrigeration and Air-Conditioning.
				CO 5	Apply the basic concepts to calculate the COP and other performance parameters for different RAC systems
				CO 6	Analyze the effects of performance parameters on COP.
				CO 1	Recall the basic concepts of Solid Mechanics to understand the subject.
Bachelor of Technology				CO 2	Classify various machine elements based on their functions and applications.
(Mechanical Engineering)	Sixth	KME 602	Machine Design	CO 3	Apply the principles of solid mechanics to machine elements subjected to static and fluctuating loads.
39/				CO 4	Analyze forces, bending moments, twisting moments and failure causes in various machine elements to be designed.
				CO 5	Design the machine elements to meet the required specification.
		KME 603	Theory of Machines	CO 1	Understand the principles of kinematics and dynamics of machines.
				CO 2	Calculate the velocity and acceleration for 4-bar and slider crank mechanism
Bachelor of Technology	Sixth			CO 3	Develop cam profile for followers executing various types of motions
Mechanical Engineering)	Oixai			CO 4	Apply the concept of gear, gear train and flywheel for power transmission
				CO 5	Apply dynamic force analysis for slider crank mechanism and balance rotating & reciprocating masses in machines.
				CO 6	Apply the concepts of gyroscope, governors in fluctuation of load and brake & dynamometer in power transmission
				CO 1	Determine the performance of different refrigeration and air-conditioning systems.
Bachelor of Technology	Chath	KME 651	Refrigeration & Air Conditioning Lab	CO 2	Apply the concept of psychrometry on different air cooling systems.
(Mechanical Engineering)	Sixth			CO3	Interpret the use of different components, control systems and tools used in RAC systems
				CO 4	Demonstrate the working of practical applications of RAC systems.
Bachelor of Technology	Solt 15			CO1	Apply the principles of solid mechanics to design various machine Elements subjected to static and fluctuating loads
	Sixth	KME 652	Machine Design Lab	CO 2	Write computer programs and validate it for the design of different machine elements
(Mechanical Engineering)		KINE 032	Machine Design Lab	CO 3	
				CO1	Evaluate designed machine elements to check their safety.
Deskales of T				CO 2	Demonstrate various mechanisms, their inversions and brake and clutches in automobiles
Bachelor of Technology	Sixth	KME 653	Theory of Machines Lab		Apply cam-follower mechanism to get desired motion of follower.
(Mechanical Engineering				CO 3	Apply the concepts of gears and gear train to get desired velocity ratio for power transmission.
				CO 4	Apply the concept of governors to control the fuel supply in engine.
				CO 5	Determine the balancing load in static and dynamic balancing problem
				CO 1	Understand the concept of destructive and Non-destructive testing methods.
Bachelor of Technology	Sixth	VAIR OCA	Nondaste attes Testes	CO 2	Explain the working principle and application of die penetrant test and magnetic particle inspection.
(Mechanical Engineering	SIAUI	KME 061	Nondestructive Testing	CO 3	Understand the working principle of eddy current inspection.
				CO 4	Apply radiographic techniques for testing.
The state of the s				CO 5	Apply the principle of Ultrasonic testing and applications in medical and engineering areas.
				CO 1	Understanding the basics of additive manufacturing/rapid prototyping and its advantages and disadvantages
Bachelor of Technology	Coupeth	WALE ON		CO 2	Understanding the role of additive manufacturing in the design process and the implications for design.
(Mechanical Engineering	Seventh	KME 071	Additive manufacturing	CO 3	Understanding the processes used in additive manufacturing for a range of materials and applications
		//	tute	CO 4	Understand the various software tools, processes and techniques that enable advanced/additive manufacturing and personal fabrication.
		10		CO 5	Apply knowledge of additive manufacturing for various real-life applications
		1151	4 90	CO 1	Understand the different sources of power generation and their impact on environment.
Bachelor of Technology		10	MIT E	CO 2	Understand the elements of power generation using conventional and non-conventional energy sources.
(Mechanical Engineering	Seventh	KWE 006	over Plant Engineering	CO 3	Understand the concepts of electrical systems used in power plants.
		1131	18011	CO 4	Apply the basic concepts of thermodynamics to measure the performance of different power plants.
		1/2		CO 5	Determine the performance of power plants based on load variations.

Seventh				Understand the basic principles of instrumentation for measurement of surface finish, strain, temperature, pressure and flow.
	KME 751	Measurement & Metrology Lab	CO 2	Understand the principle and operation of Coordinate Measuring Machine (CMM).
			CO 3	Apply Sine Bar, Slip Gauges, Bevel Protractor, Stroboscope, Dial Indicator etc. for measurement of different attributes.
			CO 4	Apply the basic concepts of limits, fits & tolerances for selective assembly.
			CO 1	Students can understand the definitions, concepts and components of Rural Development
Counth	WILL TO A	RURAL DEVELOPMENT: ADMINISTRATION AND	CO 2	Students will know the importance, structure, significance, resources of Indian rural economy
Seventh	KHU701		CO 3	Students will have a clear idea about the area development programmes and its impact.
			CO 4	Students will be able to acquire knowledge about rural entrepreneurship.
			CO 5	Students will be able to understand about the using of different methods for human resource planning
			CO1	Outline the fundamental of human anatomy and physiology
12000			CO2	Explain the gross morphology and structural of various organs of human body
First	BP101T	Human Anatomy and Physiology- Theory	CO3	Summarise the coordinated working pattern of different systems of human body
			CO4	Identify the disorder related to various systems of human body
			CO5	Examine the functions of different systems of the human body
			CO1	Explain basic fundamentals of analytical chemistry.
/			CO2	Summarize applications of volumetric, gravimetric and electrochemical analysis.
First	BP102T	Pharmaceutical Analysis I- Theory	CO3	Apply various principles of volumetric, gravimetric and electrochemical methods of analysis.
			CO4	Examine various parameters related to analysis of pharmaceutical compounds.
			COS	Analyze various principles related to volumetric titrations in analysis.
				Outline the fundamentals of pharmaceutics and guidelines thereof.
	BP103T	Pharmaceutics I – Theory	-	Explain various dosage forms, and raw materials used in the dosage form design.
First				Identify various challenges, problems and their solutions in dosage form design.
				Model formulations of various dosage forms and advantages/disadvantages.
				Examine the applications and utility of various dosage forms.
- 11 1		Pharmaceutical Inorganic Chemistry— Theory		Outline basic fundamentals of pharmaceutical inorganic chemistry.
			-	Summarize functions of praemiceuted morganic chemistry.
First	BP104T			Summarize functions of various physiological ions in human body. Explain radio pharmaceuticals and their applications.
			-	Identify mode of proportions are treer applications.
				Identify mode of preparations, properties and applications of various inorganic pharmaceutical compounds.
	15-15-1			Explain impurities and qualitative, quantitative and semi quantitativelimits of inorganic pharmaceuticals.
	BP105T		100	Students will be proficient in English language and in converting into actionable knowledge.
H. H. W.			CO2	Students will be able to appreciate and practice the unique qualities of professional rhetoric and writing style. Developing individual speech delivery and
First		Communication Skills - Thomas	con	stylization.
100		Communication skills – Theory	03	Students will be confident and develop effective speaking ability for presentations and develop thinking .
		- A-117-1-	CO4	Writing skills & innovative ideas. Propagating skills for interviews. Students will be able to master the skill of Curriculum-Vitae, Resume, and Bio-Data and
				communicate effectively with report writing, documentation and giving and receiving clear instructions.
			CO5	Students will be participative and assertive. Students will be able to understand logical issues and value system.
			CO1	Understand the theory used in application of Partial Fraction in Chemical Kinetics and Pharmacokinetics, logarithm to solving pharmaceutical problems
Fleet	0040501		CO2	Understand the concepts of Matrices and determinant used in application to solving Pharmacokinetic equations
First	BP106RMT	Remedial Mathematics – Theory	CO3	Understand the concepts of function, limit, continuity, differentiability and Integration used in application of mathematics in Pharmacy
121			CO4	Understand the concepts of Coordinate Geometry used in application of mathematics in Pharmacy
			COS	Understand the concept of Differential equations and Laplace transform used in application to solving chemical kinetics and Pharmacokinetics equations
			CO1	Understand the biology of living organisms.
First	BP106RRT	Remedial Biology Theory	CO2	Classify biological systems based on their role and need for living.
	or addition	Refficulat biology – Theory	CO3	Explain morphological characters of various biological systems.
				Outline various products of biological systems and their functions.
			CO1	Summarize various physiological processes of biological systems.
			CO2	Demonstrate the principle and working of various instruments used to assess physiology of human body
OFFICE	BP107P	Human Anatomy and Physiology - Practical		Identify microscopical feature of various types of cells and tissue
val			-	Identify gross anatomy and physiology of human skeletal system
uss				Evaluate the hematological parameter of human body
1 3	VACCE OF A SECOND			Evaluate physiological parameter of CVS
151				
/ Rist/	BP108P	Pharmaceutical Analysis I - Practical	COZ	Apply methods of preparation for various Normal and Molar solutions. Demonstrate methods of standardization of a solution by using volumetric analysis
	First First First	First BP102T First BP103T First BP104T First BP105T First BP106RMT First BP106RBT	First BP102T Human Anatomy and Physiology—Theory First BP102T Pharmaceutical Analysis I—Theory First BP103T Pharmaceutics I—Theory First BP104T Pharmaceutical Inorganic Chemistry—Theory First BP105T Communication Skills—Theory First BP106RMT Remedial Mathematics—Theory First BP106RBT Remedial Biology—Theory BP107P Human Anatomy and Physiology—Practical	Seventh KHU701 RURAL DEVELOPMENT: ADMINISTRATION AND PLANNING CO 2 CO 3 CO 4 CO 5

				CO4	Understand methods of standardization of a solution by using electro analytical method.
				CO5	Make use of volumetric analysis for quantitative estimation of a sample
				CO1	Summarize the fundamentals of various dosage forms.
Bachelor of Pharmacy	First	BP109P	Pharmaceutics I – Practical	CO2	Outline the raw materials and packaging materials used in the dosage form design.
				CO3	Develop various pharmaceutical dosage forms.
			The second secon	CO4	Model various labels used for different dosage forms.
				CO1	Illustrate the methods of preperation of inorganic compounds.
Pachalor of Pharman	F1	-		CO2	Identification of inorganic compounds with the help of limit tests.
Bachelor of Pharmacy	First	BP110P	Pharmaceutical Inorganic Chemistry- Practical	CO3	Analyze physical and chemical properties of inorganic compunds.
				CO4	Determination of inorganic compounds with the help of identification tests.
				CO5	Evaluate the various parameters to examine the purity of inorganic compounds.
				CO1	Development of conversational skills for seminars/workshops.
Destate (D)				CO2	Propagating skills for interviews under suitable interactive patterns.
achelor of Pharmacy First	First	BP111P	Communication Skills – Practical	CO3	Initiating public speaking skills based on rhythmic patterns and perfection in delivery.
				CO4	Preparation for technical paper/professional representation based on proper stress intonation mechanics.
			CO5	Developing individual speech delivery and stylization.	
				CO1	Demonstrate the principle and working of various instruments used to assess physiology of living organisms.
Bachelor of Pharmacy	First	BP112RBP	Remedial Richary Prostley	CO2	Identify the bones in human skeleton system.
	130	Of 112NDF	Remedial Biology—Practical	CO3	Identify various microscopic techniques for determination of different morphological characteristics of plants.
				CO4	Evaluate hematological parameters of human body.
				CO1	Summaries the coordinated working pattern of different system of human body
Bachelor of Pharmacy Sec	Second	BP-201T	Human Anatomy & Physiology- II	CO2	Outline the formation and role of energetic.
- Identiday	Jecond	DF-2011		CO3	Identify the disorder related to various system of human body.
				CO4	Examine the functions of different system of human body.
			CO1	Explain basic concepts of Organic Chemistry.	
			Pharmaceutical Organic Chemistry I	CO2	Compare organic compounds based on their structure, uses and qualitative tests.
Bachelor of Pharmacy	Second	BP-202T		CO3	Model the synthesis and mechanism of reactions of organic compounds.
				CO4	Analyze the orientataion, reactivity and stability of organic compounds.
			COS	Inspect the physical and chemical behaviour of organic compounds.	
			Biochemistry	CO1	Understand the basic concepts of biomolecules such as classification, chemical nature and biological role.
		BP-203T		CO2	Explain metabolic pathways of various biomolecules in physiological condition.
Bachelor of Pharmacy	Second			CO3	Make use of the biosynthesis of various biological substances.
	- 4			CO4	Analyze various disorders associated with the metabolism of biomolecules.
				COS	Examine structure and functions of himmelecules, kinetics of any managed and the control of himmelecules and functions of himmelecules are not any managed and the control of
				CO1	Examine structure and functions of biomolecules, kinetics of enzyme catalysed reactions and enzyme inhibitions and regulatory process.
			Pathophysiology	CO2	Explain basic pathological terminology involved in the pathogenesis of various diseases.
Dacheles of Di		BP204T		COZ	Illustrate gross pathological and physiological changes during cell injury, inflammation and infection
Bachelor of Pharmacy	Second			CO3	Identify the role of various chemicals , neurotransmitter, hormones, enzymes or microorganisms in the development of various diseases in the body
				CO4	Examine the role of histopathology, biochemical parameters and clinical sign for the inference of various diseases
		the second second		CO5	Assess the role of various etological factors including genetics and immunity in the pathogenesis of diseases
				CO1	Students will be able recall and infer the fundamentals of Computer, its components, structure and types.
				CO2	Students will be able recall and interpret the number systems, its conversion and calculations and the concept of the information systems and software's used in different field and its processes.
Bachelor of Pharmacy	Second	BP205T	Computer Applications in Pharmacy	CO3	Students will be able to create a personal HTML webpage, create invoice tables, Generate reports from patients database, and Exporting Tables, Queries, Forms and Reports to web pages and to XML pages.
			The second second second	CO4	Students will be able recall, infer and use the knowledge of the various types of application of computers in pharmacy.
					Students will be able identify and apply the knowledge of the Bioinformatics Databases, Concept and Impact of Bioinformatics in Vaccine Discovery and know
				CO5	the Computers as data analysis in Preclinical development like CDS, LIMS, TIMS etc.
				CO1	Explain the awareness about environmental problems among learners,
	le casu de		1000	CO2	Explain the basic knowledge about the environment and its allied problems.
Bachelor of Pharmacy	Second	BP206T //	Environmental Sciences	CO3	Build an attitude of concern for the environment.
		//	veloso !	CO4	
		11:	10/5-13		Develop skills to help the concerned individuals in identifying and solving environmental problems.
				CO5	Conclude to attain harmony with Nature.
		11 8	18	CO1	Explain working pattern of different organs of each system using specimen and models
	1	11.	2 / 1	CO2	Demonstrate the general neurological examination.

Bachelor of Pharmacy	Second	BP207P	Human Anatomy and Physiology II	CO3	Perform the hematological tests.
				CO4	To examine the different types of taste
				CO5	The identification, counting of various integral components of the body.
Backeles of Dhamas				CO1	Identify the elements from given unknown sample.
Bachelor of Pharmacy	Second	BP208P	Pharmaceutical Organic Chemistry I	CO2	Identify functional groups from given unknown sample.
				CO3	Examine the pharmaceutical compounds by preparing them from different organic scaffolds.
				CO1	Apply the methods for the preparation of buffers and measurement of pH.
				CO2	Analyzing carbohydrate and proteins qualitatively and quantitatively.
Bachelor of Pharmacy	Second	BP209P	Biochemistry	CO3	Examine the abnormal constituents of urine qualitatively.
				CO4	Determine various constituents of blood quantitatively.
				CO5	Determine salivary amylase activity and factors affecting it.
				CO1	Preparing documents in word processor.
				CO2	Preparing Web page using HTML.
Bachelor of Pharmacy	Second	BP210P	Computer Applications in Pharmacy	CO3	Creating tables in Access database.
				CO4	Creating queries in Access data base.
				COS	Creating Report in Access data base.
				CO1	
					Outline the fundamental principles of organic chemistry that include structure and uses of specific organic compounds.
Bachelor of Pharmacy	Third	BP301T	Pharmaceutical Organic Chemistry II – Theory	CO2	Explain the synthesis and chemical reactions of organic compounds along with its mechanism.
	100000	0.001	That macedical organic chemistry ii- meory	CO3	Make use of fundamental principles of organic chemistry for determining the stability and character of organic compounds.
				CO4	Analyze the evidences in derivation of structure of organic compounds.
				CO5	Compare chemical behavior of organic compounds.
				CO1	Explain the physicochemical properties of drugs molecules in designing of dosage form.
Bachelor of Pharmacy	Third	BP302T	01 1 101	CO2	Interpet the physical chemical parameters associated with quality control of dosage form.
- Thursday	rimu	BP3021	Physical Pharmaceutics I – Theory	CO3	Make use of physicochemical properties in formulations development and evaluations of dosage form.
				CO4	Examine the principles of physical pharmaceutics to improve the physicochemical properties.
				CO5	Analyze the challenges associated with physicochemical properties in designing of stable, safe, and effective dosage forms.
				CO1	Illustrate the fundamental principles of pharmaceutical microbiology
techology (D)		TO THE STREET	Pharmaceutical Microbiology – Theory	CO2	Explain the methods of identification, cultivation and preservation of various microorganisms
Bachelor of Pharmacy	Third	BP303T		CO3	Select the various microbiological methods used in pharmaceutical microbiology
				CO4	Examine the growth of different microorganisms based on various environmental factors
				COS	Determine the efficiency of sterilization, disinfectant, antiseptics and standardization of antibiotics
	The second second			CO1	Outline the fundamentals of various unit operations used in pharmaceutical industry.
				CO2	Explain the principle, construction and working of various equipments used in pharmaceutical industry.
Bachelor of Pharmacy	Third	BP304T	Pharmaceutical Engineering – Theory	CO3	Identify the applications of various equipments involved in respective unit operation used in pharmaceutical industry.
			The state of the s	CO4	Analyze the merits and demerits of various equipments used in pharmaceutical industry for better output.
				COS	Compare the different and denients used in several for informatical industry for better output.
		Direction of the last of the l			Compare the different equipments used in same unit operation for better result in accordance to different types of feeds.
				CO1	Make use of common laboratory techniques, including reflux, distillation, steam distillation, recrystallization, vacuum filtration, melting point determination
Bachelor of Pharmacy	Third	BP305P	Pharmaceutical Organic Chemistry II - Practical	CO2	Experiment with broad range of traditional organic reactions at the micro scale.
				CO3	Examine the collected data to determine the identity, purity, and percent yield of products and to summarize findings in writing in a clear and concise man
				CO4	Estimate oils and fats with the help of various analytical constants.
				CO1	Determine pharmaceutical properties like true density, bulk density, porosity and angle of repose.
Bachelor of Pharmacy	Third	000000		CO2	Evaluate the partition coefficient and solubility of drugs.
assisted of Friarmacy	Third	BP306P	Physical Pharmaceutics I – Practical	CO3	Determine the surface tension by using different methods.
	The second			CO4	Evaluate the % composition of sodium chloride of the solution and stabilty constant and donar acceptor ratio of copper- glycine complex.
				· CO5	Determine the CMC and HLB no. by using different surfactants.
				CO1	Interpret the fundamental principles of pharmaceutical microbiology
achalar of the		12.254450		CO2	Demonstrate the methods of identification, cultivation and preservation of various microorganisms
lachelor of Pharmace	Of shird	BP307P	Pharmaceutical Microbiology – Practical	CO3	Experiment the various microbiological methods used in pharmaceutical industry
1/811	TACO T			CO4	Analyze the growth of different microorganisms based on various environmental factors
115/4	10/5			COS	Determine the efficiency of sterilization, disinfectant, antiseptics and standardization of antibiotics
NA EN	1181			CO1	Construct the various curves related with different unit operations.
Bachelor of Pharmacy	kāll	DD 2000		. CO2	Make use of working of various unit operations.
and an influence	16.71	BP 308P	Pharmaceutical Engineering – Practical	CO3	Identify the effects of different pharmaceutical aids and conditions on the process of various unit operations.

<u> </u>				CO4	Compare various parameters in different unit operations used in pharmaceutical industries.
				CO1	Understand the need, concept and content of value-education in individual's life and modifies their aspirations for happiness & prosperity.
				CO2	Apply the holistic perception of harmony at all four levels of living (self, family, society and nature).
				CO3	Analyze the essential complementarily between 'VALUES' and 'SKILLS' to ensure sustained happiness and prosperity.
Bachelor of Pharmacy	Third	KVE301	Human Values & Professional Ethics	CO4	Examine the value of harmonious relationship based on trust, respect and other naturally acceptable feelings in human-human relationships and explore the
				COS	role in ensuring a harmonious society. Justify Holistic understanding in terms of ethical human conduct, trustful and mutually fulfilling human behaviour and mutually enriching interaction with
				CO1	Nature,
				1000	Illustrate the basic concept of Stereoisomerism in organic compounds.
Bachelor of Pharmacy	Fourth	BP401T	Pharmaceutical Organic Chemistry III – Theory	CO2	Understand the structure, nomenclature, Chemistry and medicinal uses of heterocyclic compounds.
	, , , , , , ,	01 4021	That maceutical Organic Chemistry III - Theory	CO4	Model the synthetic procedure and reactions of heterocyclic compounds.
					Analyze stereo chemical features for determination of configuration of organic compounds.
				CO5	Analyze the reactions of synthetic importance.
				CO1	Explain basic concepts and properties of medicinal compounds.
Bachelor of Pharmacy	Founth	DD403T	14 41 101 11 1	CO2	Model synthetic protocol of medicinal agents/drugs.
bachelor of Filarmacy	Fourth	BP402T	Medicinal Chemistry I – Theory	CO3	Analyze medicinal compounds/drugs on the basis of their structural modification.
				CO4	Analyze mode of action and uses of medicinal compounds.
				CO5	Evaluate the structure activity relationship (SAR) of medicinal agents/drugs.
				CO1	Understand the physical and physicochemical properties of drug molecules for designing of dosage form.
		BP403T	The state of the s	CO2	Make use of physicochemical properties of dosage form.
Bachelor of Pharmacy	Fourth		Physical Pharmaceutics II – Theory	CO3	Analyze the role of colloidal, coarse dispersion, micrometrics, rheology, and drug stability.
				CO4	Examine the reaction kinetics and expiry date of the formulations.
				CO5	Evaluate the physicochemical properties of dosage form.
		BP404T	Pharmacology I – Theory	CO1	Interpret general pharmacological concepts for understanding the effects of drug
				CO2	Explain the mechanism of drug action at organ system or sub cellular or macromolecular levels.
Bachelor of Pharmacy	Counth			CO3	Make use of basic pharmacodynamics concepts in the prevention and treatment of various diseases.
bachelor of Pharmacy	Fourth			CO4	Analyse the basis of classification of drugs, adverse effects, clinical indications, drug interactions, dosage, contraindications and routes of administration of different classes of drugs.
				CO5	Evaluate the pharmacokinetics parameters of drugs such as absorption, distribution, metabolism and excretion.
				CO1	Classify the various categories of herbal drugs in alternative system of medicines.
				CO2	Illustrate the cultivation , collection, processing, storage and conservation of medicinal plants.
Bachelor of Pharmacy	Fourth	BP405T	Pharmacognosy and Phytochemistry I – Theory	CO3	Interpret the primary and secondary metabolites of selected crude drugs.
				CO4	Apply the plant tissue culture in pharmacognosy.
				COS	Evaluate the qualitative and quantitative analysis of crude drugs.
2 / 2 / 2 / 2	Value of	70 / LEUNY 1		CO1	Apply the synthetic procedures for the synthesis of drugs mentioned in syllabus.
Bachelor of Pharmacy	Fourth	BP406P	Medicinal Chemistry I – Practical	CO2	
	_				Examine the quantitative assay of drugs by titrimetric method.
		BP407P	Physical Pharmaceutics II – Practical	CO1	To experiment with Drug stability studies.
Bachelor of Pharmacy	Fourth			CO2	To experiment with the micromeritics properties of powders.
				CO3	To determine the rheological property of solids and liquids.
				CO4	To determine the Sedimentation volume of coarse dispersions.
				CO1	Understand commonly used instruments, different routes of drug administration in mice or rats and correlation of pharmacology with other biomedical sciences.
Bachelor of Pharmacy	Fourth	BP408P	Pharmacology I – Practical	CO2	Demonstrate the working of different instruments used in pharmacology lab for muscle relaxant, locomotor and convulsant activity. Maintenance and hand techniques of commonly used laboratory animals.
				соз	Explain common and standard techniques used in experimental pharmacology- Blood withdrawal, serum and plasma separation, anesthetics and euthanasia used for animal studies.
				CO4	Develop rational behind how effect of drug is potentiated or inhibited in physiological systems or pathological states.
				CO5	Examine the effect of drugs on animals by computer simulation (CDs or Videos and softwares)
				CO1	Understand commonly used instruments, section cutting and adjustment of microscope.
Bachelor of Pharmacy	Fearth	BP409P	Pharmacognosy and Phytochemistry 1 –	CO2	To determine the leaf constants and cell contents with the help of microscope.
Mail!	9/6		Practical	CO3	To evaluate the crude drugs on the basis of qualitative and quantitative tests.
1/8/	111/6			CO4	To experiment the chemical tests of organized crude drugs with the help of various chemicals.
1/2/	13/	MANAGEMENT OF THE PARTY OF THE		CO1	Understand the basic concepts and classification of medicinal compounds.
1121	118111			CO2	Understand the mechanism of action of various classes of medicinal compounds
Bachelor of Pharmacy	1112	BP501T	Medicinal Chemistry II – Theory	CO3	Identify the structure and applications of medicinal compounds.

	1			CO4	Model the synthetic protocols of medicinal compounds.
				CO5	Analyze medicinal compounds based on SAR
				CO1	Explain the concept and utility of preformulation studies above
					Explain the concept and utility of preformulation studies, pharmacopoeial specifications, techniques, and equipment used in the formulation of various deforms.
Bachelor of Pharmacy	Fifth	BP502T	Industrial Pharmacy I – Theory	CO2	Extend the fundamentals, nature and characteristics of the second
bacileior of Filatinacy	Filter.	BF3021		CO3	Utilize the established procedures and technology to formulate and prepare cosmeceuticals, and various dosage forms. Analyze the selection of packaging materials, complexities and shallowers to be selectionally and shallowers.
	1. 1			CO4	Analyze the selection of packaging materials, complexities and challenges related to the formulation of dosage forms and cosmetics.
				COS	Evaluate the phormaconical description of dosage forms and cosmetics.
					Evaluate the pharmaceutical dosage form and packaging materials for quality and stability, and compare them with standards prescribed in the pharmaco
				CO1	Interpret physiological alterations and normal physiology with drug intervention from different classes of drugs.
			La Company	CO2	Summarize the bioassay, biosynthesis, storage, release, Classification, mechanism of action, biotraps for action
Bachelor of Pharmacy	Fifth	BP503T	Pharmacology II – Theory		Summarize the bioassay, biosynthesis, storage, release, Classification, mechanism of action, biotransformation, commercial preparations, indications of the
	1 1		100	CO3	Construct a suitable model drug therapy for multiple and the suitable model drug the suitable and the suitable model drug the suitable model dr
				CO4	
	-			CO5	Assess the drug interaction, adverse effects and contraindications of different drugs for safe and effective pharmacological therapy. To understand the metabolic pathways in formation of secondary metabolities and effective pharmacological therapy.
				CO1	To understand the metabolic pathways in formation of secondary marks its
				CO2	To understand the modern extraction techniques, compactition in the addition of biogenetic studies. (Understanding)
Bachelor of Pharmacy	Fifth	BP504T	Pharmacognosy and Phytochemistry	CO3	Make use of chemical tests and latest techniques like chromatography, spectroscopy and electrophoresis in the isolation & purification of crude drugs. (Applying)
530				COS	(Applying) (Applying)
				CO4	To analyze the crude drugs and phytoconstituents. (Analyzing)
			COS	To explain the isolation production and exhausting	
				CO1	To explain the isolation, production, and estimation of phytoconstituents. (Evaluating)
				CO2	Explain basic concepts of various schedules, act and rules related to pharmacy profession in India.
Bachelor of Pharmacy	Fifth	BP505T	Pharmaceutical Jurisprudence - Theory	CO3	
	1		The state of the s	CO4	Outline pharmaceutical legislations, pharmaceutical ethics and pricing of formulations.
				COS	The precion of the penalties of various acres poverning pharmacy are forced as the penalties of various acres poverning pharmacy are forced as the penalties of various acres poverning pharmacy are forced as the penalties of various acres poverning pharmacy are forced as the penalties of various acres poverning pharmacy are forced as the penalties of various acres poverning pharmacy are forced as the penalties of various acres poverning pharmacy are forced as the penalties of various acres poverning pharmacy are forced as the penalties of various acres poverning pharmacy are forced as the penalties of various acres poverning pharmacy are forced as the penalties of the penalties
				CO1	Transfer of the requirement of tabeling and packaging of druge
	I	BP506P	Industrial Pharmacy I— Practical		Demonstrate the preformulation studies of tablets and capsule
Bachelor of Pharmacy	Fifth			CO2	Make use of manufacturing techniques and knowledge of the state of the
				CO3	Analyze the tablets, capsules, glass containers for their quality, and regulatory requirements to prepare labels. Interpret the finding of observations.
				CO4	
				CO5	Formulate the topical preparation.
	1 1			CO1	Outline the concepts of experimental pharmacology and understanding in vitro and in vivo experiments.
Bachelor of Pharmacy	Fifth	805070		CO2	
bachelor of Pharmacy	Fifth	BP507P	Pharmacology II – Practical	CO3	Examine the dose response curve of various and drugs at different doses by performing bloassay.
				CO4	Evaluate various pharmacological activity of drugs using animal models.
				CO5	Estimate different parameters like PA2 and PD2 value of drugs.
				CO1	To demonstrate distillation of volatile oil from crude drugs. (Understanding)
7.5			Pharmacognosy and Phytochemistry II -	CO2	Make a use of extraction techniques to most the conditions and the conditions are the conditions and the conditions are the con
Bachelor of Pharmacy	Fifth	BP508P		CO3	Make a use of extraction techniques to get the extract from crude drugs. (Applying) To identify crude drugs by performing chemical tests. (Applying)
			Practical	CO4	To examine morphology bisheld result tests. (Applying)
				CO5	To examine morphology, histology and powder characteristics of crude drugs. (Analyzing)
				CO1	to isolate a detection of active principles by chromatographic analysis of
				CO2	
Bachelor of Pharmacy	Sixth	BP601T	Medicinal Chemistry III – Theory	CO3	Model synthetic protocol of medicinal agents/drugs.
*************************************	Kary500504		Theory		Analyze medicinal compounds/drugs on the basis of their structural modification.
			Annual Control of the	CO4	Arialyze mode of action and uses of medicinal compounds
				C03	evaluate the structure activity relationship (SAR) of medicinal agents/drugs.
				CO1	Explain the basic concepts, general principals, terminologies, causes, signs and symptoms, risk factors, management of various disease and ailment.
Bachelor of Pharmacy	Sixth	BP602T	Pharmacology III – Theory	CO2	Outline the pharmacokinetics, pharmacodynamics along with the adverse effects, interactions, clinical functions and various types of diseases.
itute of	M			CO3	Examine the principal of toxical and the prin
1/5	Po.				
112/1	1311			COS	
TIMALERIA	0				
May Avii i	101				
11.02	/2//		a()	CO2	Utilize various concepts and methods in herbal drugs technology (Applying)

				CO4	Model the synthetic protocols of medicinal compounds.
				CO5	Analyze medicinal compounds based on SAR.
				CO1	Explain the concept and utility of preformulation studies, pharmacopoeial specifications, techniques, and equipment used in the formulation of various dosage
					forms.
Bachelor of Pharmacy	Fifth	BP502T		CO2	Extend the fundamentals, nature and characteristics of excipients, cosmeceuticals, dosage forms, and packaging materials.
outlier of Fridiniacy	riidi		Industrial Pharmacy I – Theory	CO3	Utilize the established procedures and technology to formulate and prepare cosmeceuticals, and various dosage forms.
				CO4	Analyze the selection of packaging materials, complexities and challenges related to the formulation of dosage forms and cosmetics.
				COS	Evaluate the pharmaceutical dosage form and packaging materials for quality and stability, and compare them with standards prescribed in the pharmacopo
				CO1	Interpret physiological alterations and normal physiology with drug intervention from different classes of drugs.
Bachelor of Pharmacy	Fifth	BP503T	Pharmacology II – Theory	CO2	Summarize the bioassay, biosynthesis, storage, release, Classification, mechanism of action, biotransformation, commercial preparations, indications of the drugs
				CO3	Construct a suitable model drug therapy for multiple complications and comorbid conditions.
			CO4	Analyze the pharmacological actions of the available drugs to rationalise drug therapy for the indicated disease.	
			CO5	Assess the drug interaction, adverse effects and contraindications of different drugs for safe and effective pharmacological therapy.	
			CO1	To understand the metabolic pathways in formation of secondary metabolites and application of biogenetic studies. (Understanding)	
				CO2	To understand the modern extraction techniques, composition, chemistry and uses of herbal drugs and phytoconstituents. (Understanding)
Bachelor of Pharmacy	Fifth	BP504T	Pharmacognosy and Phytochemistry	соз	Make use of chemical tests and latest techniques like chromatography, spectroscopy and electrophoresis in the isolation & purification of crude drugs. (Applying)
				CO4	To analyze the crude drugs and phytoconstituents. (Analyzing)
				CO5	To explain the isolation, production, and estimation of phytoconstituents. (Evaluating)
				CO1	Explain basic concepts of various schedules, act and rules related to pharmacy profession in India.
Deskales (D)				CO2	Summarize various regulations for manufacture licensing, import, export, sale and distribution of drugs in India.
Bachelor of Pharmacy	Fifth	BP505T	Pharmaceutical Jurisprudence – Theory	CO3	Outline phamaceutical legislations, pharmaceutical ethics and pricing of formulations.
				CO4	Interpret offences and penalties of various acts governing pharmacy profession in India.
				CO5	Identify the requirement on labeling and packaging of drugs.
			CO1	Demonstrate the preformulation studies of tablets and capsule	
Bachelor of Pharmacy	Fifth	BP506P	Industrial Pharmacy I— Practical	CO2	Make use of manufacturing techniques and knowledge of excipients; formulate the tablet, capsule, injection and eye drop/ eye ointment.
bachelor of Pharmacy				CO3	Analyze the tablets, capsules, glass containers for their quality, and regulatory requirements to prepare labels.
				CO4	Interpret the finding of observations.
				CO5	Formulate the topical preparation.
				CO1	Outline the concepts of experimental pharmacology and understanding in vitro and in vivo experiments.
Bachelor of Pharmacy	Fifth	PPEOTP		CO2	Explain the theoretical concepts of drug effects on various isolated organs/tissues/whole animal.
Secretary of Filantiacy	riidi	BP507P	Pharmacology II – Practical	CO3	Examine the dose response curve of various drugs at different doses by performing bioassay.
				CO4	Evaluate various pharmacological activity of drugs using animal models.
				CO5	Estimate different parameters like PA2 and PD2 value of drugs.
				CO1	To demonstrate distillation of volatile oil from crude drugs. (Understanding)
Bachelor of Pharmacy	Fifth	20000	Pharmacognosy and Phytochemistry II -	CO2	Make a use of extraction techniques to get the extract from crude drugs. (Applying)
occincion of a marmacy	riith	BP508P	Practical	CO3	To identify crude drugs by performing chemical tests. (Applying)
				CO4	To examine morphology, histology and powder characteristics of crude drugs. (Analyzing)
				CO5	To isolate & detection of active principles by chromatographic analysis of crude drugs. (Analyzing)
				CO1	Explain basic concepts and properties of medicinal compounds.
Bachelor of Pharmacy	Sixth	BP601T	Madisinal Chamister III Thomas	CO2	Model synthetic protocol of medicinal agents/drugs.
	Jintii	DI GOLI	Medicinal Chemistry III – Theory	CO3	Analyze medicinal compounds/drugs on the basis of their structural modification.
				CO4	Analyze mode of action and uses of medicinal compounds.
				CO5	Evaluate the structure activity relationship (SAR) of medicinal agents/drugs.
				CO1	Explain the basic concepts, general principals, terminologies, causes, signs and symptoms, risk factors, management of various disease and ailment.
Bachelor of Pharmacy	Sixth	BP602T	Pharmacology III – Theory	CO2	Outline the pharmacokinetics, pharmacodynamics along with the adverse effects, interactions, clinical functions and various types of diseases.
itute or				CO3	Examine the principal of toxicology treatment of several poisoning and the chronopharmacology.
118 1	5		A STATE OF THE STA	CO4	Analyze the classification and mechanism of action of drug in the treatment of infectious diseases.
A A I TO	131			CO5	Explain the correlation with chemotherapy and immunopharmacology with related medical science.
WILL	1811			CO1	Outline the fundamental principles and aspects of herbal drug technology (Understanding).
I or I	1.6 11			CO2	Utilize various concepts and methods in herbal drugs technology (Applying)

Bachelor of Pharmacy	Sixth	BP603T	Herbal Drug Technology - Theory	CO3	Analyze the challenges and complexities associated with the formulation and evaluation of herbal products (Analyzing).
				CO4	Explain the role of excipients, characterization, and regulatory requirements for herbal medicines (Evaluating)
				CO5	Formulate various herbal products (Creating).
				CO1	Outline the concept of biopharmaceutics and pharmacokinetics in Pharmacy.
			Biopharmaceutics and	CO2	Apply various pharmacokinetics principles in drug and product development.
Bachelor of Pharmacy	Sixth	BP604T	Pharmacokinetics – Theory	CO3	Utilize various pharmacokinetic parameters in bioavailability and bioequivalence studies.
			Filatinacokinetics – Theory	CO4	Solve various pharmacokinetic mathematical problems.
				CO5	Analyze the role of pharmacokinetic modelling in the prediction of the movement of drugs in the body.
				CO1	Explain the various equipment, techniques, and tools used in the pharmaceutical biotechnology.
Bachelor of Pharmacy	Sixth	BP605T	Pharmaceutical Biotechnology—	CO2	Outline the basics of immunity, genetic organization of microbes, collection, processing and storage of blood product, storage condition and stability of vaccines.
	S.A.C.	5,005,	Theory	CO3	Make use of various technologies, i.e., immobilization, rDNA, hybridoma, fermentation, etc., to produce biotechnological products.
	44. 45.4			CO4	Analyze the advances and application of various biotechnological techniques and products in the different areas.
				CO5	Examine the operational requirements and optimum conditions for the production of top notch biotechnology products.
				CO1	Understand the quality parameters and quality attributes in pharmaceutical industry
250004-012				CO2	Outline the scope of quality certifications applicable to pharmaceutical industries
Bachelor of Pharmacy	Sixth	BP606T	Quality Assurance-Theory	CO3	Utilize the various tools for quality improvement.
				CO4	Analyze the importance of documentation in pharmaceutical industry
				COS	Determine the responsibilities of QA & QC departments
	- N	AV 11		CO1	Imaprt knowledge in preparation of drugs and intermediates
Bachelor of Pharmacy	Chat	000000	Medicinal Chemistry III – Practical	CO2	Learning preparation of Drawing structures and reactions using different softwares
bachelol of Fharmacy	Sixth	BP607P		CO3	Anniving Microwave irradiation techinque in Propagation of a division.
	THE RESERVE			CO4	Applying Microwave irradiation techinque in Preparation of nedicinally important compounds or intermediate. Perform volumetric analysis of Assay of drugs
			V	CO1	
	100 7 10		Pharmacology III – Practical	CO2	Solve the dose calculation in pharmacological experiments.
Bachelor of Pharmacy	Sixth	BP608P		CO3	Apply various Biostatistics methods (student's t-test, ANOVA, Chi-square test, Wilcoxon Signed Rank test) in experimental pharmacology
The state of the s					Examine pharmacological effects of drugs like antiallergic, hypoglycemic, and anti-ulcer in animal models.
				CO4	Examine the effect of drugs on various isolated organs or tissues.
				CO5	Estimate and interpretation of pharmacokinetic and biochemical parameters
		BP609P	Herbal Drug Technology – Practical	CO1	Make use of Phytochemical screening of crude drugs (Applying)
Bachelor of Pharmacy	Sixth			CO2	To determine the physical and chemical properties of crude drugs and formulations. (Evaluating)
	JIX(II			CO3	To summarize the characteristics of excipients of natural origin. (Understanding)
				CO4	Make use of standardized extract in cosmetic formulations like creams, lotions and shampoos. (Applying)
				CO5	Make use of standardized extract in formulations like syrups, mixtures and tablets as per Pharmacopoeial requirements.(Applying)
	SAVE OF THE SAVE			CO1	To understand the basic concepts of analytical/spectroscopic techniques.
Bachelor of Pharmacy	Counth	007047		CO2	To understand the Principle and working of various analytical techniques.
bachelor of Pharmacy	Seventh	BP701T	Instrumental Methods of Analysis – Theory	CO3	Model the instrumentation of spectroscopic tools.
	T 1 1 1 1 1			CO4	Examine the Pharmaceutical applications of Analytical/ Spectroscopic techniques.
				CO5	Examine the physical and chemical parameters of various spectroscopic methods.
				CO1	Illustrate the fundamental principles of different techniques used in the pharmaceutical industry
Doobalas of Di		72/20/20/20		CO2	Explain the regulatory guidelines of pharmaceutical industry
Bachelor of Pharmacy	Seventh	BP702T	Industrial Pharmacy II – Theory	CO3	Identify the process of technology development and quality management in the industrial pharmacy
	VIII.			CO4	Examine the scientific data and conclusion intended for regulatory review
				CO5	Assess the implementation of good regulatory practices
	THE R. LEWIS CO., LANSING			CO1	Explain organization of Hospital & community pharmacy & their management.
D L. 1 - CDI				CO2	Outline general & legal requirements for hospital & community pharmacy.
Bachelor of Pharmacy	Seventh	BP703T	Pharmacy Practice – Theory	CO3	Summarize roles & responsibilities of pharmacist in hospital & community pharmacy.
	6-7			CO4	Relate drug distribution, information and safe use of drug.
and the state of t				CO5	Interpret the documentation information related to hospital & community pharmacy.
	7 - 12 - 1			CO1	Outline the fundamentals of Novel Drug Delivery Systems (NDDS).
				CO2	Identify the applications, complexities and challenges related to the formulation and production of NDDS.
Bachelor of Phatmacy	Seventh	BP704T	Novel Drug Delivery System (NDDS) - Theory	CO3	Examine various NDDSs based on the dosage form and their route of administration.
8	noning			CO4	Analyze the designing of various NDDSs in therapeutic systems.
4/3				COS	Evaluate the formulation development and characterization of various NDDSs
MITTO				CO1	Demonstrate the construction, working principles, and applications of various analytical instruments.
10				CO2	Utilize the effects of various variables on the estimation of pharmaceutical products
1 / 7/	MALE IN CO.		- 2001M similary to shortal letramuntarial	CO2	Journe the effects of various variables on the estimation of pharmaceutical products

chelor of Pharmacy	Seventh	BP705P	בעשון וווא מווים וווים ווים וווים וו	-	
action of Filal Hacy	Seventin	BP/USP	Practical	CO3	Analyze the designing of various NDDSs in therapeutic systems.
				CO4	Estimate various chemical species using different analytical methods.
				CO5	Formulate and evaluate various pharmaceutical formulations
				CO1	Outline the fundamentals of biostatistics and research methodology.
Bachelor of Pharmacy Eighth	DDDDAT	Biostatistics and Research	CO2	Identify various statistical methods employed in the pharmacy and pharmaceutical industry.	
bacheloi of Fharmacy	Eighth	BP801T	Methodology	CO3	Solve various pharmaceutical statistical problems using biostatistics.
				CO4	Analyze the methods involved in the design of the research methodology.
				CO5	Evaluate various statistical methods implicated in the design of experiments.
				CO1	Explain the concepts of public health and Relate food to nutrition health, deficiencies and its prevention.
				CO2	Illustrate socio-cultural factors and its relation with health.
Bachelor of Pharmacy Eigl	Eighth	BP802T	Social and Preventive Pharmacy	соз	Identify avoidable habits for personal hygiene and health and explain the principles on the prevention and control of communicable and non-communicable diseases.
				CO4	Identify National health programs its objectives and recognize the community services in rural, urban and school health.
				CO5	Explain the general measures and strategies to be followed in social and preventive pharmacy.
				CO1	Explain the different concepts and scopes of marketing at various levels in pharmaceutical industry.
25 0 0 250			Dharma Madada	CO2	Summarize the various parameters involves to check for managing the pharmaceutical marketing.
Bachelor of Pharmacy	Eighth	BP803ET	Pharma Marketing	CO3	Identify different types of sales promotion and marketing mix for pharmaceutical products.
			Management	CO4	Make use of various marketing channels and emerging concepts of pharmaceutical marketing.
				COS	Compare the strategies and pricing of the pharmaceutical industry.
				CO1	Explain the concept of pharmaceutical product development, packaging materials, regulations, and excipients for different types of dosage form.
Bachelor of Pharmacy	Eighth	BP813ET	Pharmaceutical Product Development	CO2	Extend the optimization techniques and quality control testing in the development of pharmaceutical product.
				CO3	Select the excipients and packaging material for pharmaceutical formulations.
				CO4	Inference to the utility of excipients and entimization techniques in pharmacy start and a start and entimization techniques in pharmacy start and a start and entimization techniques in pharmacy start and entimization techniques in pharmacy start and entire in the start and entimization techniques in pharmacy start and entire in the start a
					Inference to the utility of excipients and optimization techniques in pharmaceutical product development.
Diploma in Pharmacy F	15.6		Pharmaceutics Theory	CO1	Outline the scope of the pharmacy profession in India in relation to the Education Industry, Pharmacy practice, and other Professional associations
	First	ER20-11T		CO2	Summarize various pharmaceutical and non-pharmaceutical ingredients used in the preparation and packaging of the formulation.
				CO3	Classify the different dosage forms based on their usage and the route of administration.
				CO4	Make use of various formulation techniques for the preparation of dosage forms.
				CO5	Categorize the Quality assurance and Quality control parameters in relation to different pharmacopeias and Manufacturing practices.
				CO1	Make use of the standard formula for the calculation of the working formula.
Diploma in Pharmacy	First	ER20-11P	Pharmaceutics Practical	CO2	Develop the different dosage forms and dispense them in appropriate containers.
				CO3	Evaluate various Quality control parameters of different dosage forms.
				CO4	Design the label with the necessary product and patient information
				CO1	Interpret the chemical class, structure, chemical name of the commonly used drugs and pharmaceuticals of both inorganic and organic nature
Diploma in Pharmacy	First	ER20-12T	Pharmaceutical Chemistry Theory	CO2	Outline the pharmacological uses, dosage rgimen, stability issues and storage conditions of all such chemical substances commonly used as drugs
				CO3	Apply quantitative and qualitative analysis , impurity testing of the chemical substances/ pharmaceuticals
				CO4	Identify the dosage form & brand name of the drugs and pharmaceuticals
				CO5	Assess various parameters related to analysis of Pharmaceutical compounds
				CO1	Demonstrate the method of preparation of organic compounds
				CO2	Identify qualitatively the various inorganic & organic Anions & Cations and unknown chemical substances
Diploma in Pharmacy	First	ER20-12P	Pharmaceutical Chemistry Practical	CO3	Apply the various fundamentals of preparative organic chemistry and volumetric analysis
				CO4	Make use of various Identification test for determining the purity of inorganic and organic compounds
				CO5	Examine the impurity level by using limit test for various inorganic elements and report
	31-5-1-5-1			CO1	Classify the various categories of herbal drugs used in pharmaceuticals, nutraceuticals and cosmeceuticals.
				CO2	Illustrate biological sources and pharmaceuticals application of various categories of herbal drugs used in traditional systems of medicines.
Diploma in Pharmacy	First	ER20-13T	Pharmacognosy Theory	CO3	Outline the macroscopic and microscopic characteristics of herbal drugs used in various system of medicines.
Sinte	The sale			CO4	Identify chamical constituents of selected crude dues and their the design of the desi
19600	131			COS	Identify chemical constituents of selected crude drugs and their therapeutic efficacy in common disease and ailments
115/2	17 101			CO1	Analyze various herbal drugs on the basis of phytoconstituents and their significance.
- 13 N	(T)			CO2	Identify the crude drugs based on the morphological characteristics
Diploma in Pharmacy	Filst	ER20-13P	Pharmacognosy Practical		Analyze the anatomical characteristics of the crude drugs under microscopical conditions
1/2/	**//			CO3	Evaluate various crude drugs based on physical tests. Evaluate various crude drugs based on chemical tests.

				CO1	Understand the elementary concepts /principles, terminology and the mechanism involved in human anatomy and physiology
Diploma in Pharmacy	First	ER20-14T	Human Anatomy & Physiology – Theory	CO2	Demonstrate the various organ systems of the human body
	rusc			CO3	Explain the anatomical features of the important human tissue and organ
				CO4	Interpret the homeostatic mechanisms regulating the normal physiology in the human system.
				CO5	Utilize the significance of various vital physiological parameters of the human body
		5020 440		CO1	Demonstrate various systems and organs with the help of charts, models and specimen
Diploma in Pharmacy First	Eiret			CO2	Identify anatomical features of different tissues of human system
	rust	ER20-14P	Human Anatomy & Physiology – Practical	CO3	Examine various physiological functions of human system and record of results
				CO4	Determine various physiological parameters of human system
				CO5	Evaluate various pathological conditions based on heamtological observations
				CO1	Outline the fundamental principal of social pharmacy.
Piploma in Pharmacy	Fleet	FD20 4FT		CO2	Illustrate the basic concept of pharmacoeconomics .
ipionia in Filannacy	First	ER20-15T	Social Pharmacy – Theory	CO3	Identify general roles and responsibility of pharmacist in public health and National health programme.
				CO4	Analyze various healthcare issues associated with food and nutritional substance.
				CO5	Categorize various health hazards and disease preventive majors.
iploma in Pharmacy				CO1	Identify the roles and responsibility of pharmacist in various national health programmes.
	First	ER20-15P	Social Pharmacy – Practical	CO2	Make use of first Aid for various emergencies.
				CO3	Utilize preventive measures for various diseases.
				CO4	Categorize the various health hazards including microbial sources.
				CO1	Summarize the basic concept of pharmacokinetic and pharmacodynamic.
Diploma in Pharmacy		ER20-21T	Pharmacology Theory	CO2	Interpret the various class and pharmacological uses of drugs.
	Second			CO3	Outline the mechanism of action and pharmacological action of various classes of drugs.
				CO4	Make use of fundamental principle of pharmacology for does regimen, dose indication and contraindication of drugs.
	74			COS	Categories various route of drug administration and dosage forms.
				CO1	Utilize various techniques of experimental pharmacology.
Diploma in Pharmacy	Canad	F020 240		CO2	Make use of various instruments in experimental pharmacology.
	Second	ER20-21P	Pharmacology Practical	CO3	Utilize various animals in experimental pharmacology.
				CO4	Analyze effect of drugs on laboratory animals.
				CO1	Explain establishment legal sequisoperatory difficults.
		ER20-22T	Community Pharmacy & Management –Theory	CO2	Explain establishment, legal requirement, responsibilities and effective administration of a community pharmacy
iploma in Pharmacy	Second			CO3	Outline the principle and procedures in patient counseling, dispensing medication, and community pharmacy management.
(i)	100000000000000000000000000000000000000			CO4	Make use of communication skills in patient counseling for effective community pharmacy management
				COS	Inspect various parts of prescription and its errors for dispensing of prescribed and OTC medictaions
				CO1	Analyze the reports of patients for effective health screening in community pharmacies
				-	Inspect various parts of prescription and its errors for dispensing of prescribed and OTC medictaions
iploma in Pharmacy	Second	ER20-22P	Community Pharmacy & Management —Practical	CO2	Analyze the reports of patients for effective health screening in community pharmacies.
	Second			CO3	Make use of the correct administration techniques for different dosage form.
				CO4	Make use of dispensing labels and auxiliary labels for the prescribed medicines.
				CO5	Examine the patient history and provide counseling for major and minor ailments.
				CO1	Explain the basic concepts of biomolecules their functions and metabolic pathway
iploma in Pharmacy	Second	ED20 22T	Olashanian O. Charles I.	CO2	Classify various biomolecules based on their chemical biological nature
-promise in Final Inacy	Second	ER20-23T	Biochemistry & Clinical Pathology – Theory	CO3	Identify the nutritional importance and deficiency symptoms of biomolecules and nutritional supplement
				CO4	Compare biomolecules on basis of their qualitative and biological significance
			The second second second second second	CO5	Analyse the clinical significance of various pathological observations of blood and urine
				CO1	Compare biomoleciles on the basic of their qualitative and biological significance.
inlama is Ob-			The second secon	CO2	Analyze the clanical significance of various pathological observation of blood and urine.
iploma in Pharmacy	Second	ER20-23P	Biochemistry & Clinical Pathology – Practical	CO3	Analyze various macro and microbiomoleculs qualitatively.
				CO4	Examin the hydrolysis of starch from acid and salivary amylase enzyme.
				CO5	Determine various constituents present in blood / serum.
				CO1	Summarize basic concepts of pharmacotherapeutics with respect to various disease and disorders.
iploma in Pharmacy	ute second	ER20-24T	Pharmacotherapeutics – Theory	CO2	Classify the ailments based on etiopathogenesis.
1/29	W X	CHEO-241	Filailiacotherapeutics – Theory	CO3	Plan the non-pharmacological and pharmacological management strategies of various diseases.
113/	121			CO4	Analyze the clinical manisfestation of common diseases.
12	MILION			CO1	Analyze SOAP notes for the given clinical cases of cardiovascular diseases.
1001	10			CO2	Analyze SOAP notes for the given clinical cases of CNS diseases.
iploma in Pharmack	Second //	ER20-24P	Pharmacotherapeutics – Practical	CO3	Analyze SOAP notes for the given clinical cases of CNS diseases. Analyze SOAP notes for the given clinical cases of respiratory and infectious diseases.
ipioma in Pharmacy	· * //		The second second		residuate some fiotes for the given chinical cases of respiratory and infectious diseases.

				CO4	Analyze SOAP notes for the given clinical cases of blood and dermatological diseases.
				CO5	Evaluate the real/hypothetical clinical cases and calculate the doses for pathological condition.
				CO1	Explain organizational and functional guidelines of hospital pharmacy administration
Diploma in Pharmacy	2 1	ER20-25T		CO2	Summarize clinical pharmacy terminology and role of clinical pharmacist in management of the same.
Diploma in Pharmacy	Second		Hospital & Clinical Pharmacy - Theory	CO3	Outline the concepts of medication errors, poisoning and pharmacovigilance.
				CO4	Make the use of the principles and standard involved in inventory control and drug distribution.
				CO5	Identification of disease states on the basis of clinical laboratory tests
				CO1	Demonstrate various aids and devices of clinical and surgical application.
Diploma in Pharmacy	Second	ER20-25P	Hospital & Clinical Pharmacy – Practical	CO2	Make use of various objects stimulation tools for clinical and surgical procedures.
S-410 - 510 (W// // // Fe/11/11/54)		21120 231	riospital & clinical Filarmacy – Fractical	CO3	Utilizing primary ,secondary and tertirary resources for addressing drugs information queries.
				CO4	Inspect various cases for drug , drug intractions and ADR reporting.
				CO1	Summarize the basic fundamentals like history, introduction, amendments & overview of various acts implemented in pharmacy profession in India.
Diploma in Pharmacy Seco	Second	ER20-26T	Pharmacy Law & Ethics	CO2	Outline the objectives, definitions, administrative bodies, schedules, guidelines, offences & penalties of various acts implemented in pharmacy profession in India.
			POSTORODE POSTORODE	CO3	
				CO4	Classify various drug control authority and legal procedures involved in pharmacy profession in India.
				COS	Make use of different schedules for conduct of ethical pharmacy standards in India.
				CO1	Compare guidelines and amendments of various acts for standard pharmacy practice in India.
lachalor of Tarker I					Extend the concept of matrices in simultaneous linear equation.
Bachelor of Technology	First	BAS103	Engineering Mathematics-I	CO2	Remember the concept of differentiation to find successive differentiation and partial derivatives
(First Year)	16/31762			CO3	Make use of partial differentiation in various application of derivatives-extrema and error analysis
				CO4	Compute the area , volume , centre of mass and centre of gravity by multiple integrals
				CO5	Apply vector differentiation and integration for line , surface and volume integrals
Bachelor of Technology Second			CO1	Solve the higher order linear differential equation	
	Second	BAS203	Engineering Mathematics-II	CO2	Understand the concept of Laplace transform to evaluate differential equations
(First Year)	Jecona	DA3203		CO3	Classify the nature of sequence –series and expansion of Fourier series
				CO4	Make use of analytic function for conformal mapping and bilinear transformation
			CO5	Apply complex integration for the expansion of complex function and real integrals	
			Engineering Physics	CO1	The students will be able to understand the concepts of engineering physics
Bachelor of Technology	First/Sagard	BAC404/D40004		CO2	Apply the Theory of relativity in related phenomenon for the problems of classical Physics
(First Year)	First/Second	BAS101/BAS201		CO3	Apply the concepts of Electromagnetic Field Theory for different conditions and applications
				CO4	Apply the concept of Quantum Mechanics with reference to Classical Physics
				CO5	Apply the phenomenon of Wave & modern optics in Engineering
	The state of			CO1	To learn about some application of carey foster bridge
Oncholos of Tarl	- H			COS	
Bachelor of Technology	First/Second	BAS151/BAS251	Engineering Disputs Lab	CO2	To study the variation of magnetic field along the axis of current carrying circular coil and magnetic field in ferromagnetic materials & hystressis loop
(First Year)		3	Engineering Physcis Lab	CO3	To study the hall effect, stefan's law and energy band gap in semiconductor.
					To study the different phenomina of geometrical effect & physical potics (Newton's size 4)(for the control of t
And the second of				CO4	To study the different phenomina of geometrical effect & physical optics (Newton's ring, diffraction grating and wavelength of He-Ne laser with diffraction grating)
				CO1	The student will able to understand the concepts of engineering chemistry.
achelor of Technology				CO2	The student will able to understand the concepts of engineering chemistry. The student will able to understand the concepts of materials used in engineering applications.
(First Year)	First/Second	BAS102/BAS202	Engineering Chemistry	CO3	The student will able to apply the concepts of concepts of materials used in engineering applications.
(i mac reary				CO4	The student will able to apply the concept of spectroscopy and stereochemistry in determination of molecular structure.
				COS	The student will able to apply the functional aspect of electrochemistry, batteries and corrosion.
	1 1 1 1 1			CO1	The student will able to apply the knowledge of water and fuel chemistry for industrial and domestic use.
Bachelor of Technology	Flora IC		Table 18 Mar	CO2	To determine impurities such as hardness and alkalinity present in water.
(First Year)	First/Second	BAS152/BAS252	Engineering Chemistry Lab		To determine iron concentration and percentage of available chlorine in water using titration methods.
	THE PARTY			CO3	To determine molecular properties such as surface tension, viscosity, pH of solution.
				CO4	To prepare industrially useful polymer resins like urea formaldehyde, phenol formaldehyde.
				CO1	Apply the concepts of KVL/KCL and network theorems in solving DC circuits.
achelor of Technology	100	100		CO2	Analyze the steady state behavior of single phase and three phase AC electrical circuits
(First Year)	Elist/Second	BEE101/BEE201	Fundamentals of Electrical Engineering	CO3	Identify the application areas of a single phase two winding transformer as well as an auto transformer and calculate their efficiency.
(riist read)	1-1311		and an animal anglish of the second	CO4	
11 - (M	17 8			004	Illustrate the working principles of induction motor, synchronous machine as well as DC machine and employ them in different area of applications.
11:3/10	181			CO5	Describe the components of low voltage electrical installations.
					Conduct experiments illustrating the application of KVL/KCL and network theorems to DC electrical circuits.

achelor of Technology	First/Second	BEE151/BEE251	Basic Electrical Engineering Lab	CO2	Demonstrate the behavior of AC circuits connected to single phase AC supply and measure power in single phase as well as three phase electrical circuits.
(First Year)	100000 SEGETOR		Dusic Electrical Engineering Cab	CO3	profile experiment mustrating on curve or magnetic materials.
				CO4	Calculate efficiency of a single phase transformer and DC machine.
			CO5	Perform experiments on speed measurement and reversal of direction of three phase induction motor and Identify the type of DC and AC machines based on their construction.	
			004	The serious sections	
Pachalas of Tasks at				CO1	Apply the concept of PN Junction diode in various diode based circuits.
Bachelor of Technology	First/Second	BEC101/BEC201	Fundamentals of Electronics Engineering	CO2	Understand the concepts of BJT, FET and MOSFET.
(First Year)	110000400000000000000000000000000000000		- sindamentals of Electronics Engineering	CO3	Apply the concepts of operational amplifier in various op-amp based circuits.
				CO4	Apply the concepts of number system and Boolean algebra.
				CO5	Understand the fundamentals of communication engineering.
Bachelor of Technology First/Secon	First/Second	BEC151/BEC251	Posio Florinairo Facilitati de la	CO1	Able to identify and understand the handling of lab equipment and processes like Active & Passive Components, PCB, electronics measuring devices and soldering techniques.
(First Year)	· may accord	DEC 13 1/BEC231	Basic Electronics Engineering Lab	CO2	Demonstrate the behaviour of various applications of PN junction diode and BJT.
				CO3	Use Op-Amp in various applications like addition and subtraction.
				CO4	Verify the truth table of various logic gates and utilize them for implementation of various Roolean functions
			CO1	To understand the fundamental of computer & C programming	
Bachelor of Technology	First/Second	BCS101/BCS201	Programming for Data - Data	CO2	To apply various control statements
(First Year)	,sq second	500101/500201	Programming for Problem Solving	CO3	To utilize the concept of functions
				CO4	To apply the concept of primitive & non primitive data types
				CO5	To make use of file handling and preprocessor
Bachelor of Technology			Programming for Problem Solving Lab	CO1	To apply different control statements
(First Year)	First/Second	BCS151/BCS/251		CO2	To apply the concepts of functions
· manual ·	EI 7			CO3	To apply the concepts of primitive and non primitive data types
				CO4	To apply the concepts of file handling
			Fundamentals of Mechanical Engineering	CO1	Explain the behaviour of deformable bodies.
Bachelor of Technology	First/Second	BME101/BME201		CO2	Illustrate the concepts of internal combustion engines and electric vehicles.
(First Year)	, may second	IL TO IT DIVILEZO I		CO3	Illustrate the concepts of refrigeration and air-conditioning.
				CO4	Illustrate fluid properties, conservation laws and hydraulic machinery.
				CO5	Explain error in measurement ,mechatronics and its functional elements.
5 1 1				CO1	The student will be able to understand the ecological perspective and value of the environment.
Bachelor of Technology	First/Second	BAS104/BAS204	Environment and France	CO2	The students will be able to understand the significance of various natural resources and its management
(First Year)			Environment and Ecology	CO3	The students will be able to understand different types of pollution and the controlling measures
				CO4	The students will be aware of current environmental issues.
				CO5	The students will be able to understand environmental laws.
0 1 1		BAS105/BAS205		CO1	To understand the usage of grammar
Bachelor of Technology	First/Second		Coff Chille	COZ	To enhance listening and speaking skills
(First Year)	, may accord		Soft Skills	CO3	To understand the proper usage of reading and writing skills
	2. T. 2.			CO4	To develop presentation and interaction skills
		-		CO5	To understand workplace stress and leadership skills
Bachelor of Technology	6			CO1	To Understand the role of kinesics and paralanguages in individual speaking
(First Year)	First/Second	BAS155/BAS255	English Language Lab	CO2	To enhance the confidence for public speaking with the help of various speaking activities
1.7-100229911-5745.50				CO3	To understad the basic rules of error free grammar in order to improve writing skills
				CO4	To understand comprehension skills based on Reading and Listening modules
Bachelor of Technology				CO1	Understand the drawing instruments and their uses with visual aspects and graphics standards of engineering decigo
(First Year)	First/Second	BCE151/BCE251	Engineering Graphics and Design Lab	002	Draw orthographic projections of points, lines, planes and solids.
LO LE LE LA LA TITA				CO3	Develop the surfaces of different sections.
	Control of the second			CO4	Draw Isometric Projection using Isometric scale.
Bachelor of Technology		CAST WAS CONTRACTED AND THE CONTRACT OF		CO1	Identify the engineering materials, tools, machines and measuring instruments.
(First Year)	First/Second	BWS151/BWS251	Mechanical Workshop Lab	CO2	Make use of lathe and CNC machine for simple turning operations.
1100	Xell	111 - X 1 1 A		CO3	Utilize fitting and carpentry tools for joints preparations.
	1-2-11			CO4	Choose the metal joining process for components manufacturing.