

SKR & SKR GOVT. COLLEGE FOR WOMEN, KADAPA. (AUTONOMOUS)



Reaccredited with 'B' Grade by NAAC

Y.S.R. Kadapa District – 516001, Andhra Pradesh, India.

Affiliated to Yogi Vemana University

2.6.1: Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students

ADDITIONAL INFORMATION

Outcome Based Education is the key to identify the gaps in Teaching-Learning-Evaluation Targets with predefined Programme Outcomes, Programme Specific Outcomes and Course Outcomes by computing CO PO Attainment and helpful in bridging gaps by practicing remedial measures. The institution implements Blooms Taxonomy in achieving excellence in teaching and imparting qualities, knowledge, skills, analysing ability and creativity to the learner. The structured POs, PSOs and COs of all Programmes are listed in the Table of contents. Program outcomes, program specific outcomes and course outcomes for all programs offered by the Institution are stated and displayed on website and communicated to teachers and students in the fallowing means:

- Uploading in college website https://skrgdcwakdp.edu.in// and giving access to teachers and students.
- Displaying in college notice board, department notice boards and student corner.

- Making available in digital handbook.
- Copies are made available in Library.
- Soft and Hard Copies are available at departments. The Program outcomes, program specific outcomes and course outcomes are apprised in Board of Studies, Academic Council and Governing Body meetings.



2.6.1: Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students

S.K.R & S.K.R. GOVERNMENT COLLEGE FOR WOMEN, KADAPA (AUTONOMOUS)

DEPARTMENT OF ZOOLOGY

COURSE OUTCOMES 2021-22

Sl No	Year	Course Code	Name of the course	Course Outcome code	Course Outcome
				CO1	Students would be able to understand the distinguishing characters of Non-chordate phyla.
1	2021 2022	1207	Animal diversity- Biology of Nonchordates	CO2	Students would be able to understand the evolution and history of Non-chordate phyla.
1	2021-2022	1307		CO3	Students would be able to classify various Non-chordate phyla.
				CO4	Students would be able to understand the life cycles and metamorphosis of insects
		2307	Animal diversity- Biology of Chordates	CO1	students would be able to understand unique –characters of various chordates
2	2021-2022			CO2	students would be able to understand different level of organization, evolutionary relationship of chordates.

				CO3	To identify the poisonous and non poisonous snakes
				CO4	To write down classification of Aves and Flight adaptations of birds
				CO1	students will be able describe cell cycles and its regulation.
3	2021-2022	2207	Cell biology, Genetics,	CO2	students will be able to explain the causes and role of extinction in evolution
3	2021-2022	3307	Molecular Bilogy & Evolution	CO3	students will be able to identify chromosomal mutations and in borne errors of metabolism
				CO4	students will be able to describe the differences between prokaryotic and Eukaryotic cells.
		4307	Animal Physiology, cellular metabolism & Embryology	CO1	students will be able to describe Environmental Pollution and its control measures
4	2021-2022			CO2	students will be able to understand the methods of wildlife conservation and endangered species.
4				CO3	students will be able to understand the metabolic functions of the body.
				CO4	students will be able to understand the fertilization & development of various animals.
				CO1	Students would be knowing the structure and functions of various immunoglobulins.
				CO2	Students will gain the knowledge of autoimmunity and immunodeficiency disorders.
5	2021-2022	S-V-4307	Immunology & Animal Biotechnology	CO3	Students would understand various genetic engineering methods used to develop new breeds of plants & animals which are helpful to humankind.
				CO4	students will be able to explain various techniques used in the separation of biomolecules.

				CO1	students will be able to use microbes and mammalian cells for the production of pharmaceutical products.
6	2021-2022	5313		CO2	students will be able to explain the concept of hybridoma technology and application of monoclonal antibodies.
6	2021-2022	3313	Animal Biotechnology	CO3	Students would understand various genetic engineering methods used to develop new breeds of plants & animals which are helpful to humankind.
				CO4	students will be able to explain various techniques used in the separation of biomolecules.
			4 Animal Husbandary	CO1	Student would be able to learn rating of cattle, poultry, that in turn helps them to start a small scale industry.
				CO2	Students will understand the role of nutrition in animal husbandry.
7	2021-2022	5314		CO3	Students will be able to explain the mechanisms and role of reproductive physiology in livestock production.
				CO4	Students will gain the knowledge of keeping of animals for food and fiber production and other purposes
		6313		CO1	Students would be knowing the structure and functions of various immunoglobulins.
8	2021-2022		Immunology	CO2	Students will gain the knowledge of autoimmunity and immunodeficiency disorders.
				CO3	Students would be knowing the structure and functions of various immune organs, immune system and their role in maintaining health

				CO4	Students would be knowing the causes and mechanism of various types of hypersensitivity.
				CO1	Students would be able to understand the culture techniques of freshwater & marine fishes & prawns.
9	2021-2022	6314A1	Dringinles of Aqueoulture	CO2	students will be able to describe fresh water, marine and estuarine fisheries.
9	2021-2022	0314A1	Principles of Aquaculture	CO3	students will be able to explain the Hatchery design and management.
				CO4	students will be able to describe the technique of Induced breeding.
		6314A2	Aquaculture Management	CO1	students will be able to Understand the structure and functions of aquatic ecosystems
	2021-2022			CO2	students will be able to Understand pond lay-out, construction and preparation.
10				CO3	students will be able to analyse harvesting and marketing strategies
				CO4	Students will learn various breeding and water quality monitoring techniques, pathogens and diseases and their treatments
				CO1	students will be able to Understand the concepts of fish handling and processing.
11	2021-2022	6314A3	Post harvest Technology	CO2	students will be able to analyse the quality assessment and post- harvest technology to manage live fish and fishery product.
				CO3	students will be able to Understand the handling and preserving the catch

				CO4	students will be able to Understand the biochemical changes in fishery products which are dried, fermented, smoked
			DEPA	RTMENT O	OF Physics
Sl No	Year	Course Code	Name of the course	Course Outcome code	Course Outcome
		PHY1302		CO1	To understanding the variable mass system and motion of Rocket
		PHY1302*P		CO2	To understanding the planetary motion and motion of Satellites
1	2021-2022		Mechanics, waves and Oscillations	CO3	To know the concept of ether and how the length and times changes
			Oscinations	CO4	To know the difference between undamping and Damping conditions
		PHY2302		CO1	To understanding the concept of interference and diffraction and their applications in daily life
		PHY2302*P		CO2	To know methods of production of plane, circularly and polarized light and their detection and the concept of optical activity
2	2021-2022		Wave Optics		To know the basic principle of laser, the working of He-Ne laser and Ruby lasers
				CO3	and their applications in different fields.
				CO4	To know the different aberrations in lenses and methods of minimizing them
		PHY3302		CO1	To understand the basic aspects of kinetic theory of gases, mean free path, the transport phenomenon in ideal gases
3	2021-2022	PHY3302*P	Thermodynamics &	CO2	To gain knowledge on the basic concepts of thermodynamics and its Laws
		Radiation Physics	Radiation Physics	CO3	To understand the concept of Thermodynamic potentials, the formulation of Maxwell's equations and its applications.
]	CO4	To know and study the various methods for liquifaction of Gases
4	2021-2022	PHY4302	Electricity, Magnetism &	CO1	To have command on calculation of Electrical properties
<u> </u>	ZUZ1-ZUZZ	PHY4302*P	Electronics	CO2	To know the generation of magnetic fields by electrical currents.

	1				To understand Maxwell's equations governing electromagnetic
				CO3	waves
]		To understand the working of semiconducting devices like diodes,
				CO4	Transistors, and digital circuits
		PHY4303		CO1	Understading the atomic and molecular vibrations of ions by the students
5	2021-2022	PHY4303*P	Modern Physics	CO2	To know the dual nature and uncertainity of particles
				CO3	To understanding the binding energy and mass defect of atoms
				CO4	To know the types of superconductors and its applications
		PHY5303	Electricity, Magnetism & Electronics	CO1	To have command on calculation of Electrical properties
		PHY5303*P		CO2	To know the generation of magnetic fields by electrical currents.
6	2021-2022				To understand Maxwell's equations governing electromagnetic
				CO3	waves
					To understand the working of semiconducting devices like diodes,
				CO4	Transistors, and digital circuits
		PHY5304	Modern Physics	CO1	Understading the atomic and molecular vibrations of ions by the students
		DIIVEZOAND	-	CO1	
7	2021-2022	PHY5304*P		CO2	To know the dual nature and uncertainity of particles
				CO3	To understanding the binding energy and mass defect of atoms
				CO4	To know the types of superconductors and its applications
		PHY6303	Analog & Digital		To know the construction and working of FET and its applications
		11110303	Electronics	CO1	in electronic device manufaring
		PHY6303*P			To understand the working of Operational Amplifier, to know the
8	2021-2022	11110303 1		CO2	OpAmp modes and measrement of OpAmp parameters
o	2021 2022				Should be able to do mathematical operations like addition,
				CO3	subtraction, intigration and differentiation using OpAmp
				GO.4	To understand the working of signal generatiors and memory
				CO4	devices like various FlipFlops
9	2021-2022	PHY6304A1	Electronic devices and circuits	CO1	To Construct and design of Networking theorems

		PHY6304A1 *P		CO2	To know the construction and designing of UJT and SCR
				CO3	To know how to design the powerr supplies using rectifiers and filters
				CO4	To know the working and applications of CRO and Photo devices
		PHY6304A2		CO1	To understand the concept of tokens, strings & control structures of programming in c.
10	2021-2022	PHY6304A2 *P	Computational Methods	CO2	To study and to implement the application of arrays, strings & application of algorithms programming
10	2021-2022		and Programming	CO3	To know about the concept of design & development of functions, expressions, linked and data structures
				CO4	To learn and able to compare alternative implementation of datastructures& programs written in c language.
	2021-2022	PHY6304A3	Electronic Instrumentation	CO1	How to design and construction of basic meters
11		PHY6304A3 *P		CO2	Knowing the difference between electronic and analog multimeters
				CO3	To analyse the purification of water by pH meter
				CO4	The understadning the Radio and Audio signals of different Signal generators
		I	DEPARTM	ENT OF HO	RTICULTURE
Sl No	Year	Course Code	Name of the course	Course Outcome code	Course Outcome
	2021-22		Francisco estada a f	CO1	Classify the horticulture plants based on soil and climate.
1			Fundamentals of Horticulture and Soil	CO2	Demonstrate the methods and types of tarining and purning.
	2021-2022	S 1308	Science and Soil	CO3	Explain about integrated nutrient management and demonstrate the skills of soil testing.

					Explain th basics of soil science and justify the role of soil as a
				CO4	medium for plant growth.
			_	CO1	Study of tools and implements in Horticulture.
			- Fundamentals of	CO2	Identification of various Horticulture crops
2		S 2308	Horticulture and Soil	CO3	Layout of different irrigation systems
	2021-2022		Science - Practical		Identification and management of nutritional disorders in important
	2021 2022				fruits,
				CO4	vegetables and flowers
				CO1	sexual and asexual propagation methods of plants
		S 3308			Justify the role of various propagation structures used to raise
		3 3306	Plant Propagation and	CO2	horticulture plants
3			Nursery Management	CO3	Implement different routine/regular activities in a nursery
	2021-2022				Understand the economics of a plant nursery and can maintain
	2021 2022			CO4	necessary records
					Methods of breaking dormancy in seeds, tubers, vegetative buds and
					other vegetative
			<u> </u>	CO1	propagules.
			Plant Propagation and		Media for propagation of plants in Nursery Beds , Pot and Mist
			Nursery Management -	CO2	chamber.
		S-IV-4308	Practical	CO3	Hardening of plants in the nursery.
	2021-2022				Preparation of plant growth regulators for seed germination and
4	2021 2022				vegetative
				CO4	propagation.
					Distinguish the growing of vegetables according to season and
				CO1	climate
			Basics of Vegetable		Understand and explain the special intercultural operations done in
			Science (Olericulture)	CO2	vegetable crops
5	2021-2022	S-V-4307		CO3	Study of morphology and taxonomy of different vegetable crops
				CO4	Study of different varieties of vegetable crops
6		S 2308		CO1	Demonstration of seed germination test for a vegetable seed.

			Basics of Vegetable	CO2	Demonstration of seed viability test.
			Science (Olericulture) -	CO3	Identification of major diseases and insect pests of vegetables
	2021-2022	S 3308	Practical	CO4	Fertilizer application for vegetable growing
7					Realize the value of fruits in terms of human nutrition and economy
/				CO1	of nation.
			Basics of Fruit Science		Acquire knowledge related to various cultivation practices for
			(Pomology)	CO2	different fruit crops
	2021-2022			CO3	Demonstrate the special intercultural operations done in fruit crops
	2021-2022			CO4	Explain about Integrated Orchard Management
		S-IV-4308			Manure and fertilizer application including biofertilizers in different
		3-1 V - 4 300		CO1	fruit crops
8				CO2	Use of growth regulators in fruit crops.
			Basics of Fruit Science		Methods of application, calculation of the required quantity of
			(Pomology) - Practical		manure and
				CO3	fertilizers based on the nutrient content.
	2021-2022				Identification and collection of important diseases in fruit crops and
				CO.4	Herbarium
				CO4	preparation.
9		S-V-4307		CO1	Develop a critical understanding of insect pests and plant disease
			Pests and Diseases of	COI	symptoms. Examine and identify the pests and diseases of ornamental crops
			Horticulture Plants and	CO2	and their management
			their Management	202	Justify the significance of Integrated Plant Disease Management for
			then munugement	CO3	horticultural crops.
10	2021-2022			CO4	Identify and classify various insect pests on horticulture plants
			D ID: C		Study of characteristics of insect pests, microbial pathogens,
			Pests and Diseases of		nematodes causing disease on different plants given in the theory
			Horticulture Plants and	CO1	syllabus.
	2021-2022		their Management - Practical		Identification of disease symptoms on different plants given in the
	2021-2022		1 ractical	CO2	theory syllabus

11				CO3	Observing and acquiring knowledge on pesticides, fungicides etc.,
				CO4	Acquaintance with methods of application of common fungicides
			DEPARTN	MENT OF EL	LECTRONICS
Sl No	Year	Course Code	Name of the course	Course Outcome	Course Outcome
51110	1 car	Course code	Traine of the course	code	Course outcome
		ELE S1305		CO1	To explain the basic concepts and laws of DC and AC electrical networks
1	2021-2022	ELE S1305*	CIRCUIT THEORY AND ELECTRONIC	CO2	To understand the construction, working and VI characteristics of electronic devices.
			DEVICES	CO3	To understand the concept of power supply.
				CO4	To solve them using mesh and nodal analysis techniques
	2021-2022	ELE S2305		CO1	To understand the number systems, Binary codes and Complements
2		ELE S2305*	DIGITAL	CO2	To understand the Boolean algebra and simplification of Boolean expressions
2			ELECTRONICS	CO3	To understands characteristics of memory and their classification.
				CO4	To understand the Boolean algebra and simplification of Boolean expressions.
		ELE S3305		CO1	To understand the concepts, working principles and key applications of linear integrated circuits.
		ELE S3305*	ANALOG CIRCUITS	CO2	To perform analysis of circuits based on linear integrated circuits
3	2021-2022		AND COMMUNICATION	CO3	To design circuits and systems for particular applications using linear integrated circuits.
				CO4	To analyse different parameters of analog communication techniques.
4	2021-2022	ELE S4305	MICROPROCESSOR	CO1	To understand basic architecture of 16 bit and 32 bit microprocessors.
4	2021-2022	ELE S4305*	SYSTEMS	CO2	To understand interfacing of 16 bit microprocessor with memory and peripheral chips involving system design.

					To understand techniques for faster execution of instructions and
				CO3	improve speed of operation
				CO4	To understand RISC based microprocessors.
		ELE S4306		CO1	To understand basic architecture of 16 bit and 32 bit microprocessors.
5	2021-2022	ELE S4306*	MICRO CONTROLLER AND INTERFACING	CO2	To understand interfacing of 16 bit microprocessor with memory and peripheral chips involving system design.
			AND INTERFACING	CO3	To understand techniques for faster execution of instructions and improve speed of operation
				CO4	To understand RISC based microprocessors.
		ELE S5309 *		CO1	To provides a thorough introduction to the basic principles and techniques used in analog and digital communications.
		ELE S5309 *	ANALOG AND	CO2	The course will introduce analog and digital modulation techniques.
6	2021-2022		DIGITAL COMMUNICATIONS	CO3	Communication receiver and transmitter design, baseband and band pass communication techniques
				CO4	To understand line coding techniques, noise analysis, and multiplexing techniques
		ELE S5310		CO1	To understand basic architecture of 16 bit and 32 bit microprocessors.
7	2021-2022	ELE S5310*	MICROPROCESSOR	CO2	To understand interfacing of 16 bit microprocessor with memory and peripheral chips involving system design.
			SYSTEMS	CO3	To understand techniques for faster execution of instructions and improve speed of operation
				CO4	To understand RISC based microprocessors.
		ELE S6309		CO1	To understand the concepts of microcontroller based system
8	2021-2022	ELE S6309*	MICRO CONTROLLER	CO2	To enable design and programming of microcontroller based system.
			AND INTERFACING	CO3	To know about the interfacing Circuits.
]	CO4	To write the ALP programs using microcontroller
9	2021-2022	ELE S6305A1	EMBEDDED SYSTEM	CO1	To understand the concepts of microcontroller based system

		ELE S6305A1*		CO2	To know about the interfacing Circuits
				CO3	To write the ALP programs using microcontroller
				CO4	To know the design of embedded processor
		ELE S6305A2		CO1	To introduce students to monitor, analyze and control any physical system
10	2021-2022	ELE S6305A2*	ELECTRONIC INSTRUMENTATION	CO2	To Measurement of impedance using bridges
			INSTRUMENTATION	CO3	To Study of absolute is merely confirmed within laboratories
				CO4	To understand students how different types of meters work and their construction
		ELE S6305A3		CO1	To introduces analytical techniques to evaluate the performance of electrical requirements
11	2021-2022	ELE S6305A3*	CONSUMER	CO2	To understand the concept of identification of block and tracing the system
		ELECTRONICS	CO3	To Study of PA systems for various situations of Assembly and Disassembly of system using Toolkit	
				CO4	To analyse different parameters of Home/office dital devices & their techniques.
			DEPARTMEN	T OF COME	PUTER SCIENCE
Sl No	Year	Course Code	Name of the course	Course Outcome code	Course Outcome
	2021-2022			CO1	The students would be able to understand the evolution and functionality of a Digital Computer
				CO2	The students can apply logical skills to analyse a given problem
1		S1311	Problem Solving in C	CO3	The students are able develop an algorithm for solving a given problem.
				CO4	They can understand 'C' language constructs like Iterative statements, Array processing, Pointers, etc.

				CO5	The students could be able to apply 'C' language constructs to the algorithms towrite a 'C' language program.
	2021-2022			CO1	The students are able to demonstrate basic understanding of computer hardware and software
				CO2	The students could apply skills and concepts for basic use of a computer.
2		LSC 102	Basic Computer Applications	CO3	The students can identify appropriate tool of MS office to prepare basic documents, charts, spreadsheets and presentations
				CO4	The students are create personal, academic and business documents using MS office.
				CO5	The students could create spreadsheets, charts and presentations.
				CO6	The students can analyze data using charts and spread sheets.
	2021-2022		Data Structures using C	CO1	The students are able to understand available Data Structures for data storage and processin
				CO2	The students are able to comprehend data Structure and their real- time applications - Stack, Queue, Linked List, Trees and Graphs
				CO3	Choose a suitable Data Structures for an application
3		S2311		CO4	The students are able to develop ability to implement different Sorting and Search methods
				CO5	The students can have knowledge on Data Structures basic operations like insert, delete, search,update and traversal
				CO6	The students could implement the applications of algorithms for sorting.
	2021-2022			CO1	The student can understand the literature of social networks and their properties
		1	Information and	CO2	The students can able to explain different network topologies
4		LSC 202	Communication Technology	CO3	The students will develop skills to use various social networking sites
				CO4	The students will know how to use online forums and come to know how to use google docs, spreadsheets etc.

	2021-2022		Data Dana Managanana	CO1	The students are able to design and model of data in database.
				CO2	They can store, retrieve data in database
5		S3311	DataBase Management Systems	CO3	They have a high-level understanding of major DBMS components and their function
				CO4	The students are able to be able to write SQL commands to create tables and indexes query data in a relational DBMS
	2021-2022			CO1	The Students Understand the concept and underlying principles of Object-Oriented Programming
6		S-IV4311	Object Oriented	CO2	The students are able to Create and use interfaces in java.
0		3-174311	Programming using Java	CO3	The students can Create and use packages Stream Class
				CO4	The students are able to implement Multi threading, exception handling in Java.
	2021-2022	S-V4311	Operating Systems	CO1	The students are able to know Computer system resources and the role of operating system in resource management with algorithms
7				CO2	The students Understand Operating System Architectural design and its services.
7				CO3	They gain knowledge of various types of operating systems including Unix and Android.
				CO4	The students understand various process management concepts including scheduling,
	2021-2022			CO1	The students are able to design and model of data in database.
				CO2	They can store, retrieve data in database
8		5321	Database Management Systems	CO3	They have a high-level understanding of major DBMS components and their function
				CO4	The students are able to be able to write SQL commands to create tables and indexes, insert/update/delete data, and query data in a relational DBMS
9	2021-2022	5322	Software Engineering	CO1	The student gains ability to gather and specify requirements of the software projects

					ability to work in a team as well as independently on software projects
				CO2	The students can understand ability to analyze software requirements.
				CO3	They are able to able to differentiate different testing methodologies
				CO4	They can able to understand and apply the basic project management practices.
	2021-2022			CO1	The students are able to understand the web architecture and web services.
10		6321	Web Technologies	CO2	They can practice latest web technologies by conducting experiments.
				CO3	They can design interactive web pages using html and style sheets.
		٦		CO4	The students study basics of java script and xml
	2021-2022		Foundations of Data Science	CO1	The students learn the basics of R programming
				CO2	The students could document and transfer the results and effectively communicate the findings using visualization techniques
11		6322 A1		CO3	The student learn to apply hypotheses and data into actionable predictions.
				CO4	The students can be able to apply fundamental algorithmic ideas to process data
	2021-2022			CO1	The students can learn tips and tricks for big data use cases and solutions.
12		6322 A2	Die Dete teelmele en	CO2	The students could able to apply hadoop ecosystem components
12		0322 A2	Big Data technology	CO3	The students can learn to build and maintain reliable, scalable, distributed systems with apache hadoop.
				CO4	The student learns about HIVE and HBase
13	2021-2022	6322 43	Computing for Data	CO1	The students are able to learn the big data in technology perspective
13		6322 A3	Analytics	CO2	They are able to understand the statistical procedures most often used by practicing engineers

				CO3	They can understand the statistical procedure and design graphs.
				CO4	The students can understand Forecasting methods and apply for business applications.
	2021-2022			CO1	The students are able to Design and develop software solutions for contemporary business environments by employing appropriate problem solving strategies.
14		CO12021C	Information Technology	CO2	The students could configure and administer database servers to support contemporary business environments.
				CO3	The students can comprehend and resolve common desktop and network issues
	2021-2022			CO1	The students are able to explain how to create an e-commerce website from scratch, using PHP and the Bootstrap framework
15		CO2202-2C	E-Commerce & Web Designing	CO2	The students could be able to display featured products correctly on a web page, using the bootstrap system.
				CO3	The students can explain how product detail modals are programmed to be dynamic.
	2021-2022		Programming with C and C++	CO1	The students can understand tokens and control structures in C and C++.
16		G02202.2G		CO2	The students are able to understand arrays and strings and implement them.
10		- CO3202-3C		CO3	They understand the right way of using functions, pointers, structures and unions in C and C++.
				CO4	The students used to develop and test programs written in C and C++.
	2021-2022	- C-4202-4E		CO1	The Students Understand the concept and underlying principles of Object-Oriented Programming
17			Object Oriented	CO2	The students are able to Create and use interfaces in java.
1 /		C-4202-4E	Programming with Java	CO3	The students can Create and use packages Stream Class
				CO4	The students are able to implement Multi threading, exception handling in Java.

			Datahasa Managamant	CO1	The students are able to design and model of data in database.
				CO2	They can store, retrieve data in database
18		C-4202-4F	Database Management Systems	CO3	They have a high-level understanding of major DBMS components and their function
				CO4	The students are able to be able to write SQL commands to create tables and indexes query data in a relational DBMS
	2021-2022			CO1	The students are able to design and model of data in database.
				CO2	They can store, retrieve data in database
19		5211	Database Management Systems	CO3	They have a high-level understanding of major DBMS components and their function
				CO4	The students are able to be able to write SQL commands to create tables and indexes, insert/update/delete data, and query data in a relational DBMS
	2021-2022	5212	Web Technologies	CO1	The students are able to understand the web architecture and web services.
20				CO2	They can practice latest web technologies by conducting experiments.
				CO3	They can design interactive web pages using html and style sheets.
				CO4	The students study basics of java script and xml
	2021-2022			CO1	The students can understand concept of ecommerce and its type be familiarized with technologies for ecommerce
20				CO2	They are able to understand different types of online payment systems.
20		6211	E-Commerce	CO3	They could explain the process that should be followed in building an E-commerce presence.
]		CO4	They can describe the major types of E-commerce.
				CO5	The students can understand selling and marketing online
21	2021-2022	6212	Php and My-Sql	CO1	The students are able to understand the hypertext preprocessor and web services

				CO2	The students can practice latest php processors and tools by conducting experiments.
				CO3	They can study the framework and building blocks of my sql integrated development environment
				CO4	The students can list the major elements of the PHP & MySQL
	2021-2022			CO1	The students can learn about Basics of Computers
			Commutan	CO2	The students are able to learn about basics of HardwareComponents
22		CO1105	Computer Fundamentals&Office	CO3	The students could learn about basics of Operating SystemSoftware
22		01103	Tools	CO4	The students can learn about basics of Application SystemSoftware
				CO5	The students are able to practice handful exercises on Documentation, Spreadsheet, Presentation
	2021-2022			CO1	The students can analyze a given problem and develop an algorithm to solve the problem.
				CO2	The students can learn understand tokens and control structures inC.
23		A2105	Programming in C	CO3	The students can understand arrays and strings and implement them.
				CO4	The students are able to understand the right way of using
					functions, pointers, structures and unions in C
				CO5	They could develop and test programs written in C.
	2021-2022			CO1	The students are able to design and model of data in database.
			DATA BASE	CO2	They can store, retrieve data in database
24		CO3105	MANAGEMENT	CO3	They have a high-level understanding of major DBMS components and their function
			SYSTEMS	CO4	The students are able to be able to write SQL commands to create tables and indexes, insert/update/delete data, and query data in a relational DBMS
25	2021-2022	- A IV//105	Object Oriented	CO1	The Students Understand the concept and underlying principles of Object-Oriented Programming
25		A-IV4105	Programming using Java	CO2	The students are able to Create and use interfaces in java.
				CO3	The students can Create and use packages and applets.

				CO4	The students are able to implement Multi threading, exception handling in Java.
				CO1	The students are able to learn about Basic tags in Html and CSS
				CO2	The students are able to learn about the Building Blocks of php,functions.
26		A-V4105	Web Designing	CO3	The students are able to learn about working with Forms, Sessions, Cookies.
				CO4	The students are able to learn about Interacting with MySQL using PHP
	2021-2022			CO1	The students are able to design and model of data in database.
				CO2	They can store, retrieve data in database
26		5109	Database Management Systems	CO3	They have a high-level understanding of major DBMS components and their function
				CO4	The students are able to be able to write SQL commands to create tables and indexes, insert/update/delete data, and query data in a relational DBMS
	2021-2022			CO1	The students can understand concept of ecommerce and its type be familiarized with technologies for ecommerce
27		5110	E-Commerce	CO2	They are able to understand different types of online payment systems.
				CO3	They could explain the process that should be followed in building an E-commerce presence.
				CO4	They can describe the major types of E-commerce.
	2021-2022			CO1	The students are able to understand the web architecture and web services.
28		6109	Web Technologies	CO2	They can practice latest web technologies by conducting experiments.
				CO3	They can design interactive web pages using html and style sheets.
				CO4	The students study basics of java script and xml

	2021-2022		Multimedia Systems	CO1	They are able to develop understanding of technical aspect of multimedia systems
29		6110 A1		CO2	They can understand various file formats for audio, video and text media.
			j	CO3	They could develop various multimedia systems applicable in real time.
				CO4	They are able to design interactive multimedia software
	2021-2022			CO1	The students able to gain knowledge on Desktop publishing
20		C110 A2	Desktop Publishing	CO2	The students can understand Corel draw
30		6110 A2	Technologies	CO3	The students learn the basics of photoshop
				CO4	The students study about PageMaker
	2021-2022		Cloud Computing	CO1	They can analyze the core issues of cloud computing such as security, privacy, and interoperability.
31		6110 A3		CO2	The students can identify problems, and explain, analyze, and evaluate various cloud computing solutions.
				CO3	The students are able to analyze the components of open stack & google cloud platform and understand mobile cloud computing
				CO4	They can learn the Concept of Cloud Infrastructure Model.
			DEPARTM	ENT OF MA	ATHEMATICS
			COURS	E OUTCOM	ES 2021-22
Sl No	Year	Course Code	Name of the course	Course Outcome code	Course Outcome
1	2021-2022	1301	1 SEMESTER, PAPER - I(B.Sc), DIFFERENTIAL	CO1	THE MAIN AIM OF THE COURSE ISTO INTRODUCES THE STUDENTS TO THE TECHNIQUIES OF SOLVING VARIOUS PROBLEMS. DISSTINGISH BETWEEN LINEAR, NON LINEAR, PARTIAL
			EQUATIONS	CO2	AND ORDINARY DIFFERENTIAL EQUATIONS

				CO3	SOLVE BASIC APPLICATION PROBLEMS DESCRIBED BY SECOND ORDER LINEAR DIFFERENTIAL EQUATIONS WITH CONSTANT CO-EFFICIENTS.
					STUDENTS SHOULD BE ABLE TO RECOGNISE
					DIFFERENTIAL EQUATIONS THAT CAN BE SOLVED BY
					EACH OF THE THREE METHODS- DIRECT INTEGRATION,
					SEPARATION OF VARIABLES AND INTEGRATING FACTOR
					METHOD AND USE THE APPROPRIATE METHOD TO
				CO4	SOLVE THEM.
				CO1	MEASURE ANGLESUSING A PROTRACTOR
					USE GEOMETRICAL RESULTS TO DETERMINE UNKNOWN
2	2021-2022	2301	II SEMESTER - PAPER	CO2	ANGLES.
	2021-2022	2301	II SOLID GEOMETRY	CO3	RECOGNISE LINE AND ROTATIONAL SYMMETRIES
					FIND THE AREAS OF TRINGLES ,CIRCLES AND SHAPES
				CO4	BASED ON THIS
					STUDENTS WILL HAVE A WORKING KNOWLEDGE MANY
		3301			CONCEPTS SUCH AS DEFINITION OF A GROUP, ORDER OF
				CO1	ELEMENT
					SUBGROUPS, NORMAL SUBGROUPS, CYCLIC SUBGROUPS,
			III SEMESTER- PAPER		PERMUTATION GROUPS, HOMOMORPHISM AND
3	2021-2022		III ABSTRACT	CO2	ISOMORPHISM
			ALGEBRA		STUDENTS WILL BE ABLE TO DEFINE ALGEBRAIC
				G0.2	STRUCTURES WILL BE ABLE TO CONSTRUCT SUB
				CO3	STRUCTURES
				GO 4	STUDENTS WILL BE ABLE TO DEVELOP NEW
				CO4	STRUCTURES BASED ON GIVEN STRUCTURES
					DESCRIBE FUNDAMENTAL PROPERTIES OF THE REAL
	2021 2022	C IV 4201	IV SEMESTER PAPER	CO1	NUMBERS THAT LEAD TO THE FORMAL DEVELOPMENT
4	2021-2022	S IV-4301	IV REAL ANALYSIS	CO1	OF REAL ANALYSIS.
				CO2	COMPREHEND RIOROUS ARGUEMENTS DEVELOPING THE
				CO2	THEORY UNDER PINNING REAL ANALYSIS.

					CONSTRUCT RIGOROUS MATHEMATICAL PROOFS OF
				CO3	BASIC RESULTS IN REAL ANALYSIS.
					THIS COURSE IS DESIGNED TO PROVIDE FUNDAMENTAL
					CONCEPTS OF ANALYSIS, INCLUDING CLASSCIAL
					THEOREY OF FUNCTIONS OF A REAL VARIABLE,
					DIFFERENTIATION AND INTEGRATION OF REAL
				CO4	FUNCTIONS
					STUDENTS WILL SOLVE SYSTEMS OF LINEAR
					EQUATIONS USING MULTIPLE METHODS INCLUDING
				CO1	GAUSSIAN ELIMINATION AND MATRIX INVERSION
			IV SEMESTER PAPER		CARRY OUT MATRIX OPERATIONS INCLUDING INVERSES
5	2021-2022	S V-4301	V LINEAR ALGEBRA	CO2	AND DETERMINANTS
			V LINEAR ALGEBRA		DETERMINE WHETHER A VECTOR CAN BE WRITTEN AS A
			_	CO3	LINEAR COMBINATION OF SET OF OTHER VECTORS
					DETERMINE IF A SET OF VECTORS ARE LINEARLY
				CO4	INDEPENDENT OR LINEARLY DEPENDENT
		5301			KNOW THE FUNDAMENTAL CONCEPTS IN RING THEORY
					SUCH AS THE CONEPTS OF IDEALS, QUOTIENT RINGS,
				CO1	INTEGRAL DOMAINS AND FIELDS
			V CEMECTED DADED		LEARN IN DETAIL ABOUT POLYNOMIAL RINGS,
6	2021-2022		V SEMESTER PAPER V RING THEROY AND		FUNDAMENTAL PROPERTIES OF FINITE FIELD
0	2021-2022		VECTOR CALCULUS	CO2	EXTENSIONS AND CLASSIFICATION OF FINITE FIELDS
			VECTOR CALCULUS		UNDERSTAND THE CONCEPTS OF VECTOR SPACES,
					SUBSPACES, BASES, DIMENSIONS AND THEIR
				CO3	PROPERTIES
				CO4	RELATE MATRICES AND LINEAR TRANSFORMATIONS
					CALCULATE THE LAPLACE TRANSFORM OF STANDARD
			V SEMESTER PAPER		FUNCTIONS BOTH FROM THE DEFN AND BY USING
7	2021-2022	5302	VI LAPLACE	CO1	TABLE.
/	2021-2022	3302	TRANSFORM		SELECT AND USE THE APPROPRIATE SHIFT THEOREMS.IN
			TRANSFORM		FINDING LAPLACE AND INVERSE LAPLACE
				CO2	TRANSFORMS.

					to solve initial-value problems for linear differential equations with
				CO3	constant coefficients.
					Apply the Convolution Theorem to obtain inverse Laplace
				CO4	transforms.
					PROVIDE AN AXIAMATIC DESCRIPTION OF AN ABSTRACT
				CO1	VECTOR SPACE.
			VI SEMESTER PAPER	CO2	DETERMINE A BASIS AND DIMENSION OF A F.D.S
8	2021-2022	6301	VII- LINEAR		DETERMINE WHETHER A VECTOR CAN BE WRITTEN AS A
			ALGEBRA-I	CO3	LINEAR COMBINATION OF SET OF OTHER VECTORS
					DETERMINE IF A SET OF VECTORS ARE LINEARLY
				CO4	INDEPENDENT OR LINEARLY DEPENDENT
					CALCULATE THE F.T OF ELEMENTARY FUNCTIONS FROM
		6301-A1	VI SEMESTER CLUSTER ELECTIVE A1 INTEGRAL TRANSFORMS	CO1	THE DEFINITION
	2021-2022				RECOGNISE EVEN AND ODD FUNCTIONS AND USE THE
				CO2	RESULTING SIMPLICATIONS FOR F.SAND TRANSFORMS.
9					Students will gain a range of techniques employing the Laplace and
					Fourier Transforms in the solution of ordinary and partial
				CO3	differential equations
					They will also have an appreciation of generalized functions, their
				CO4	calculus and applications.
					APPLY NUMERICAL METHODS TO OBTAIN APPROXIMATE
				CO1	SOLUTIONS TO MATHEMATICAL PROBLEMS.
			MICEMECTED		ANALYSE AND EVALUATE THE ACCURACY OF COMMON
			VI SEMESTER CLUSTER ELECTIVE -	CO2	NUMERICAL METHODS.
10	2021-2022	6301-A2	A2 NUMERICAL		Understanding the theoretical and practical aspects of the use of
			ANALYSIS	CO3	numerical methods
			ANALISIS		Implementing numerical methods for a variety of multidisciplinary
					applications. Establishing the limitations, advantages, and
				CO4	disadvantages of numerical methods
11	2021-2022	6301-A3		CO1	DO ELEMENTARY MATRICS OPERATIONS.

			VI SEMESTER CLUSTER ELECTIVE VIII A3 LINEAR ALGEBRA II	CO2 CO3 CO4 URSE OUTO	EXPRESS THE SYSTEM OF LINEAR EQUATIONS IN MATRIX FORM. Relate MATRICES AND LINEAR TRANSFORMATIONS, compute eigen values and eigen vectors of linear trasformations. Learn properties of inner product spaces and determine orthogonality in inner product spaces.
				2019-22 Bat	
Sl No	Year	Course Code	Name of the Course	Course Outcome code	Course Outcome
	2021-2022	STA S1304	Descriptive Statistics and Probability	CO1	Students would be able to learn about primary secondary data, Measures of central tendency,
				CO2	Students would be able to learn about measures of dispersion, importance of moments, Skewness and kurtosis
1				CO3	Students would be able to learn the basic concepts of probability, definitions of probability, Conditional Probability
				CO4	Students would be able to learn Addition and multiplication theorems, Boole's inequality and Baye's theorems
				CO5	Students would be able to learn about discrete distributions continuous distributions, probability mass function and probability density function and distribution function and its properties
	I	T	I	1	
2	2021-2022	-2022 STA S2304	Mathematical Expectations & Probability distributions	CO1	Students would be able to learn about Mathematical Expectation and its properties, Addition and multiplication theorems, Generating functions, Chebyshev's and Cauchy Schwartz inequalities and Central limit theorem
				CO2	Students would be able to learn about discrete distributions like Bernoulli, Binomial, M.G.F, C.F, C.G.F, P.G.F,

				CO3	Students would be able to learn about continuous distributions like Rectangular, Normal, Exponential, Gamma Beta and Cauchy and their properties and applications.
				CO4	Students would be able to learn about continuous distributions like Rectangular, Exponential, Gamma Beta and Cauchy and their properties and applications.
				CO5	Normal DistributionDefinition, Importance, Properties, M.G.F Interrelation Between Normal and Binomial, Normal and Poisson distribution. Cauchy distribution
	3 2021-2022 STA S330		Statisitcal Methods and Sampling Distributions	CO1	Students would be able to know the principle of least squares, fitting of straight-line, second degree parabola, power curves and the theory of attributes, and its various measures.
		STA S3304		CO2	Students would be able to learn about the topics Correlation and and their properties and the relationship between two variables and interpretation
3				CO3	Students would be able to learn about the topic Regression lines their properties and the relationship between two variables and interpretation
				CO4	Students would be able to learn about the topics Notations, Order of Class frequencies, Association of Attributes, Relationship between association and colligation of attributes,
				CO5	Students would be able to learn about Sampling Concepts and using t, F, and Chi-Square distributions with applications
4	2021-2022	STA S4304	Statisitcal Inference	CO1	Students would be able to learn about Estimation of Parameter, Criteria of a good estimator, Statement of Neuman's factorization theorem. Properties of MLE's. Binomial, Poisson and Normal Population parameters estimate by MLE method. Confidence intervels of the Parametes pf normal Population

				CO5	analysis and comparison of the efficiencies of these designs Students would be able to know about Analysis of Variance technique and design of experiments and principles of experimentation Students would be able to learn the importance of SQC in industry.
		STA S5307	Sampling Theory & Design of Experiments	CO4	Students would be able to learn about Completely Randomised design, Randomised block design, Latin square design their
5	2021-2022			CO3	Students must be able to know about Simple random sampling, Stratified random sampling, systematic sampling techniques, their advantages and disadvantages
				CO2	Students must be able to know about Simple random sampling, Stratified random sampling, systematic sampling techniques, their advantages and disadvantages
				CO1	Students would be able to know about Principal steps in sample surveys- census vs sampling, sampling and non- sampling errors, advantages of sampling over census and limitations of sampling
				CO5	Students would be able to learn about Non parametric tests, their advantages and disadvantages, One sample and two sample tests
				CO4	Students would be able to learn about small sample tests like chi- square, t and F, test for goodness of fit and goodness of fit for independence of attributes.
				CO3	Students would be able to learn about Large sample tests like proportions, standard deviations and correlation coefficients.
				CO2	Students would be able to learn about Concepts of Hypothesis, Null and alternative Hypothesis, critical region. two types of erros, level of significance and powe of test. one tail and two tailed tests and problem solving skills.

				CO2	Students would be able to learn Shewhart control charts, and its applications
				CO3	Students would be able to learn Acceptance sampling plans
				CO4	Students would be able to learn Single and Double sampling plans for attributes and derivatives of their OC and ASN functions. Design of single and double sampling plans for attributes
				CO5	Students would be able to know the concept of reliability and the role of Exponential distribution and its memory less property. Students would be able to estimate reliability function and to understand the concept of system reliability.
		STA 6307	Economic Statistics	CO1	Students would be able to know Tie Series and its components with Illustrations, Determination of seasonal indices by sample averages methods, ratio to moving average, ratio to trend and link relative methods
				CO2	Students would be able to know Growth curves
7	2021-2022			CO3	Students would be able to know Index Numbers
,	2021-2022			CO4	Students would be able to know the functions and organization of CSO and NSSO, National income and its computation, and difficulties in estimation of national income.
				CO5	Students would be able to know about the definition, uses of vital statistics and its sources, Various mortality and fertility rates, Life tables-its construction and uses.
		STA 6308 A1	OR and Applications of Linear Programming Problems	CO1	Students would be able to Learn Basics of Operation Research and Linear Programming
8	2021-2022			CO2	Students would be able to know understand the Simplex algorithm and solvation of problems,, Artificial Variable Technique, and Concept of degeneracy

				CO3	Students must be able to understand the concept of duality, primal dual relationship and dual simplex method.
				CO4	Students would be able to learn about the Definition of Transportation problem, obtaining feasible solution by North-west, Matrix minimum and Vogel's approximation methods, Obtaining Optimal solution through MODI method and stepping stone methods and the concepts of degeneracy and resolving it Assignment problem and finding optimal solution by Hungarian method
				CO5	Students would be able to know the formulation and description of and also to learn about the problem of sequencing and finding optimal solution through Johnson's algorithm method.
		STA 6308 A2	Numerical Methods	CO1	Students would be able to know Forward, Backward, Shift, Central, Mean difference operator, fundamental theorem on finite difference operator,
9	2021-2022			CO2	Students would be able to know Interpolation with Equal intervals
				CO3	Students would be able to know Interpolation with Ubequal intervals
				CO4	Students would be able to know Numerical Differentiations
				CO5	Students would be able to know Numerical Integration
				CO1	Students would be able to learn about Basic Econometrics
				CO1	Students would be able to learn about Basic Econometrics Students would be able to learn Models and Estimations
				CO2	Students would be able to learn Problems in Ordinary Least Square
10	2021-2022	STA 6308 A3	Econometric Methods	CO3	Estimator Estimator
10	2021-2022			CO4	Students would be able to learn Regression with Qualitative Independent Variables
				CO5	Students would be able to learn Regression with Qualitative dependent variables

			DEPARTM	MENT OF N	MICROBIOLOGY
			COUR	SE OUTCO	OMES 2021-22
S.No.	Year	Course Code	Name of the Course	Course outcomes code	
.1.	2021-22	1310	Introduction to Microbiology and Microbial Diversity	CO1	Understand the contributions of eminent scientists in the development of microbiology.
				CO2	Explain the methods of sterilization and process of different staining techniques of various bacteria.
				CO3	Analyze the determination of specific nutrients by bacteria and Understand basic principles and different kinds of microscopy.
				CO4	Understand the ultra structure of bacterial cell.
2	2021-22	2310	Microbial Biochemistry & Metabolism	CO1	Discuss nutrients uptake of microbes, aerobic, anaerobic respiration and Photosynthesis.
				CO2	Understand the enzyme as biocatalyst, its classification and mechanism of action.
				CO3	Discuss modes of energy yielding metabolism, microbial fermentation and its significance.
				CO4	Describe structures, functions and classification of carbohydrates, proteins, amino acids, lipids, nucleic acids.
3	2021-22	S 3310	Medical Microbiology and Immunology	CO1	Understand the protective role of the immune system of the host and basic components
				CO2	Explain the principles and applications of antigens- antibody reactions
				CO3	Understand the normal micro flora of human body, and diseases caused by bacteria, viruses and other microorganisms.
				CO4	Describe the general principles of Diagnostic microbiology

4	2021-22	S-IV4310	INDUSTRIAL MICROBIOLOGY	CO1	Knowledge about industrially important microorganisms
				CO2	Explain the different enzymes used in industries
				CO3	Explain the principles of fermenter design and types of fermentation processes
				CO4	Understand the basic structure and types of bioreactors.
5	2021-22	S-V4310	Molecular Biology and Microbial Genetics	CO1	Understand the structural organization of genetic material and concept of Genetic code.
				CO2	Describe various types of RNA and their functions
				CO3	Discuss mutation, its types and related effects like loss of function and gain of functions etc
6	2021-22	5319	Environmental and Agricultural microbiology	CO1	Understand the role of microbes in different environments
				CO2	Describe processes involved in purification of sewage and potable water
				CO3	Understand the plant growth promoting microorganisms and Nitrogen fixation
				CO4	understand the principles and casual agents of Bateria, fungi and viruses.
7	2021-22	5320	Microbial diagnosis in health clinics	CO1	Determine mode of entry, infection, symptoms, Laboratory diagnosis and treatment for Bacterial, fungal, Protozoan infections
					Understand the procedures for specimen collection and isolation of
				CO2	pathogens.
					Discuss about the characters, pathogenicity, and lab diagnosis of
				CO3	bacterial
				CO4	Determine antibiotic resistance by Bacteria.
8	2021-22	6319	Food and industrial Microbiology	CO1	Knowledge about food preservation and spoilage.

					Explain the different methods of food preservation and types of
				CO2	spoilage in foods.
					Explain the principles of fermenter design and types of fermentation
				CO3	processes
			DEPART	MENT OF SI	PECIAL URDU
			COUR	RSE OUTCOM	MES 2021-22
				Course	
	Year	Course Code	Name of the Course	Outcome	Course Outcome
				code	
			URDU PROSE		
1	2021-2022	A1104	Afsanavi Adab aur		Students would be able to understand the introduce Urdu Fiction.
			Drama	CO1	
					Students would be able to understand about the Urdu Drama and
				CO2	Krishn Chandr.
				G. 6	Students would be able to learner well aware of the Short Stories of
				CO3	the Afsana Nigaar.
				GO.4	Students would be able to understand the student got the interest in
			TIPPII PROGES	CO4	Urdu Fiction.
2	2021-2022	A2104	URDU PROSE Ghair	GO1	students would be able to understand the Ghair Afsanavi Nasr.
			Afsanavi Adab	CO1	
				COS	students would be able to understand and distinguish between
				CO2	Safarnama, Khaka and Inshaiya.
				CO2	The student will have good knowledge and will develop the
				CO3	comprehension.
				CO4	The learner will able to develop the Literary Taste in students.
3	2021-2022	A3104	URDU POETRY		The Student will able to know about the literary expression of
	3			CO1	Classical Poetry.
				CO2	The student can learn about the Ghazal, Nazm, Qasida and Marsiya.
				CO3	The learner will aware of Mohsin Kakoorvi's Qasida Laamiyah
					The learner will be well aware of Mythological expressions in Urdu
				CO4	Poetry.

4	2021-2022	A-IV4104	TAREEKH-E-ADAB URDU	CO1	The student has the knowledge of History of Urdu Language and Literature.
				CO2	The student well known of different stages of development of Urdu.
				CO3	The learner has detailed knowledge of Dakhni Era of Urdu Literature.
				CO4	The student aware of Dabistan-e-Lucknow and Delhi
	2021-2022	A-V4104	Adabi Tanqeed	CO1	To impart the awareness of Literary Criticsm
5				CO2	To impart the critical study of Urdu Literature
				CO3	To educate the Adabi Tanqeed and importance of Literary Criticism
				CO4	To bring the awareness on Tazkitati Tanqeed
6	2021-2022	5107	TAREEKH-E-ADAB URDU	CO1	The student has the knowledge of History of Urdu Language and Literature.
				CO2	The student well known of different stages of development of Urdu.
				CO3	The learner has detailed knowledge of Dakhni Era of Urdu Literature.
				CO4	The student aware of Dabistan-e-Lucknow and Delhi
7	2021-2022	5108	Tanqeed aur Balaghat(Fanna Tankhid Nigari)	CO1	The learner has the awareness of Literary Criticism.
				CO2	The student can know about the critical study of Urdu Literature in detail.
				CO3	The learner can know the Adabi Tanqeed and importance of Literary Criticism.
				CO4	The student has the good knowledge on Dabistan-e-Tanqeed.
8	2021-2022	6107	Urdu Sharee ki Khadeem Asnaf	CO1	Students would be knowing the structure and Writing tecnics of Urdu Poery.
				CO2	Students will gain the knowledge of Marciya.
				CO3	Students would be knowing the structure and writing tecnics of Qasida
				CO4	Students would be knowing structure and tecnics of masnayi and Rubayi

9	2021-2022	6108-A1	Afsanavi Adab	CO1	students will be able to Understand the structure and tecnich of afsanavi adab
				CO2	students will be able to Understand the Novel tecnics.
				CO3	students will be able to understand Dastan Tecnichs
				CO4	Students will learn various types of afsanvi adab drama, short story
10	2021-2022	6108-A2	Gair Afsanavi Adab	CO1	students will be able to Understand the structure and tecnich of Gair afsanavi adab
				CO2	students will be able to Understand the Savana Umri tecnics.
				CO3	students will be able to understand Khutut nigari Tecnichs
				CO4	Students will learn various types of gair afsanvi adab Safar nama, Majmoon nigari
11	2021-2022	6108-A3	Special Study of Moulana Azad.	CO1	students will be able to Understand about Azad life.
				CO2	students will be able to under stand the azad life achivements
				CO3	students will be able to Understand the Azad education policy
				CO4	students will be able to Understand the Azad political thougts
	DEPARTM ENT OF GENRAL URDU				
	COURSE OUTCOME S 2021-22				
	Year	Course Code	Name of the Course	Course Outcome code	Course Outcome
1	2021-2022	LU104	Urdu Poerty	CO1	Students are able to learn about Ghazals and new and old Urdu poets. Then Nazam
				CO2	Student capable of understanding Urdu Ghazal & Nazam's fundamental ideas

				CO3	Student who can read, comprehend, and appreciate Urdu poetry
				CO4	Increasing communication abilities
2	2021-2022	LU204	Lluda Do ctura		Learn about the contributions made by Urdu's classical and modern
2	2021-2022	LU204	Urdu Poetry	CO1	poets.
					Bear in mind the fundamentals of Urdu, including Masnavi,
				CO2	Marseva, Qasida, and Rubiyee.
					To generate curiosity and understanding of Indian heritage and
				CO3	culture
				CO4	Developing your literary research skills.
3	2021-2022	LU304	URDU Prose	CO1	To provide fundamental and necessary knowledge of Urdu fiction
				CO2	To teach the kids communication, literacy, and writing skills
					To generate curiosity and understanding of Indian heritage and
				CO3	culture
				CO4	Provided information on traditional Indian social customs .
			DEPART	MENT OF C	COMMERCE
			COURS	E OUTCOM	ES -2021-22
				Course	
Sl No	Year	Course Code	Name of the Course	Outcome	Course Outcome
				code	
			Fundamentals of		1.At the end of the course, the student will able to Identify
1	2021-2022	C1201-1A	Accounting		transactions and events that need to be recorded in the books of
			recounting	CO1	accounts.
	2021-2022				2. Equip with the knowledge of accounting process and preparation
	2021 2022			CO2	of final accounts of sole trader.
	2021-2022				3. Develop the skill of recording financial transactions and
				CO3	preparation of reports in accordance with GAAP.
	2021-2022			GO 4	4. Analyze the difference between cash book and pass book in terms
				CO4	of balance and make reconciliation.
	2021-2022			005	5.Critically examine the balance sheets of a sole trader for different
				CO5	accounting periods

	2021-2022			CO6	6.Design new accounting formulas & Principles for business organisations.
2	2021-2022	C1201-1B	BUSINESS ORGANISATION AND MANAGEMENT	CO1	1. At the end of the course, the student will be able to Understand different forms of business organizations.
	2021-2022			CO2	2. Comprehend the nature of Joint Stock Company and formalities to promote a Company.
	2021-2022			CO3	3. Describe the Social Responsibility of Business towards the society.
	2021-2022			CO4	4. Critically examine the various organizations of the business firms and judge the best among them.
	2021-2022			CO5	5. Design and plan to register a business firm. Prepare different documents to register a company at his own.
	2021-2022			CO6	6. Articulate new models of business organizations.
3	2021-2022	C1201-1C	Business Environment	CO1	1. At the end of the course, the student will able to; Understand the concept of business environment.
	2021-2022			CO2	2. Define Internal and External elements affecting business environment.
	2021-2022			CO3	3. Explain the economic trends and its effect on Government policies.
	2021-2022			CO4	4. Critically examine the recent developments in economic and business policies of the Government.
	2021-2022			CO5	5. Evaluate and judge the best business policies in Indian business environment.
	2021-2022			CO6	6. Develop the new ideas for creating good business environment.
4	2021-2022	C2201-2A	Financial Accounting	CO 1	1. At the end of the course the student will able to; Understand the concept of consignment and learn the accounting treatment of the various aspects of consignment.
	2021-2022			CO 2	2. Understand the concept of consignment and learn the accounting treatment of the various aspects of consignment.

	2021-2022			CO 3	3. Analyze the accounting process and preparation of accounts in consignment and joint venture.
	2021-2022			CO 4	4. Distinguish Joint Venture and Partnership and to learn the methods of maintaining records under Joint Venture.
	2021-2022			CO 5	5. Determine the useful life and value of the depreciable assets and maintenance of Reserves in business entities.
	2021-2022			CO 6	6. Design an accounting system for different models of businesses at his own using the principles of existing accounting system.
5	2021-2022	C2201-2B	Business Economics	CO 1	1. At the end of the course, the student will able to; Describe the nature of economics in dealing with the issues of scarcity of resources.
	2021-2022			CO 2	2. Analyze supply and demand analysis and its impact on consumer behaviour.
	2021-2022			CO 3	3. Evaluate the factors, such as production and costs affecting firms behaviour.
	2021-2022			CO 4	4. Recognize market failure and the role of government in dealing with those failures.
	2021-2022			CO 5	5. Use economic analysis to evaluate controversial issues and policies.
	2021-2022			CO 6	6. Apply economic models for managerial problems, identify their relationships, and formulate the decision making tools to be applied for business.
6	2021-2022	C2201-2C	BANKING THEORY & PRACTICE	CO 1	1. At the end of the course, the student will able to; Understand the basic concepts of banks and functions of commercial banks.
	2021-2022			CO 2	2. Demonstrate an awareness of law and practice in a banking context.
	2021-2022			CO 3	3. Engage in critical analysis of the practice of banking law.
	2021-2022			CO 4	4. Organize information as it relates to the regulation of banking products and services.
	2021-2022			CO 5	5. Critically examine the current scenario of Indian Banking system.

	2021-2022			CO 6	6. Formulate the procedure for better service to the customers from various banking innovations.
7	2021-2022	C1202-1A	Fundamentals of Accounting	CO1	1.At the end of the course, the student will able to Identify transactions and events that need to be recorded in the books of accounts.
	2021-2022			CO2	2. Equip with the knowledge of accounting process and preparation of final accounts of sole trader.
	2021-2022			CO3	3. Develop the skill of recording financial transactions and preparation of reports in accordance with GAAP.
	2021-2022			CO4	4. Analyze the difference between cash book and pass book in terms of balance and make reconciliation.
	2021-2022			CO5	5.Critically examine the balance sheets of a sole trader for different accounting periods
	2021-2022			CO6	6.Design new accounting formulas & principles for business organisations.
8	2021-2022	C1202-1B	BUSINESS ORGANISATION AND MANAGEMENT	CO1	1. At the end of the course, the student will be able to Understand different forms of business organizations.
	2021-2022			CO2	2. Comprehend the nature of Joint Stock Company and formalities to promote a Company.
	2021-2022			CO3	3. Describe the Social Responsibility of Business towards the society.
	2021-2022			CO4	4. Critically examine the various organizations of the business firms and judge the best among them.
	2021-2022			CO5	5. Design and plan to register a business firm. Prepare different documents to register a company at his own.
	2021-2022			CO6	6. Articulate new models of business organizations.
9	2021-2022	C2202-2A	Financial Accounting	CO 1	1. At the end of the course the student will able to; Understand the concept of consignment and learn the accounting treatment of the various aspects of consignment.
	2021-2022			CO 2	2. Understand the concept of consignment and learn the accounting treatment of the various aspects of consignment.

	2021-2022			CO 3	3. Analyze the accounting process and preparation of accounts in consignment and joint venture.
	2021-2022			CO 4	4. Distinguish Joint Venture and Partnership and to learn the methods of maintaining records under Joint Venture.
	2021-2022			CO 5	5. Determine the useful life and value of the depreciable assets and maintenance of Reserves in business entities.
	2021-2022			CO 6	6. Design an accounting system for different models of businesses at his own using the principles of existing accounting system.
10	2021-2022	C2202-2B	Business Economics	CO 1	1. At the end of the course, the student will able to; Describe the nature of economics in dealing with the issues of scarcity of resources.
	2021-2022			CO 2	2. Analyze supply and demand analysis and its impact on consumer behaviour.
	2021-2022			CO 3	3. Evaluate the factors, such as production and costs affecting firmsbehaviour.
	2021-2022			CO 4	4. Recognize market failure and the role of government in dealing with those failures.
	2021-2022			CO 5	5. Use economic analysis to evaluate controversial issues and policies.
	2021-2022			CO 6	6. Apply economic models for managerial problems, identify their relationships, and formulate the decision making tools to be applied for business.
11	2021-2022	C3201-3A	Advanced Accounting	CO1	the student will able to Understand the concept of Non-profit organisations and its accounting process
	2021-2022			CO2	Comprehend the concept of single-entry system and preparation of statement of affairs
	2021-2022			CO3	Familiarize with the legal formalities at the time of dissolution of thefirm
	2021-2022			CO4	Prepare financial statements for partnership firm on dissolution of thefirm.
	2021-2022			CO5	Employ critical thinking skills to understand the difference between the dissolution of the firm and dissolution ofpartnership

12	2021-2022	C3202-3B	BUSINESS STATISTICS	CO1	Ø Understand the importance of Statistics in reallife
	2021-2022			CO2	Formulate complete, concise, and correct mathematical proofs
	2021-2022			CO3	Frame problems using multiple mathematical and statistical tools, measuring relationships by using standardtechniques
	2021-2022			CO4	Build and assess data-basedmodels.
	2021-2022			CO5	Learn and apply the statistical tools in daylife.
13	2021-2022	C3203-3C	MARKETING	CO1	Develop an idea about marketing and marketingenvironment
	2021-2022			CO2	Understand the consumer behaviourand market segmentationprocess
	2021-2022			CO3	Comprehendthe product life cycle and product linedecisions
	2021-2022			CO4	Know the process of packaging and labeling to attract thecustomers.
	2021-2022			CO5	Formulate new marketing strategies for a specific newproduct
14	2021-2022	C4201-4A	Corporate Accounting	CO1	Understand the Accounting treatment of Share Capital and aware of process of book building.
	2021-2022			CO2	Demonstratetheprocedure for issue of bonus shares and buyback ofshares.
	2021-2022			CO3	Comprehend the important provisions of Companies Act, 2013 and prepare final accounts of a company with Adjustments.
	2021-2022			CO4	Comprehend the important provisions of Companies Act, 2013 and prepare final accounts of a company with Adjustments.
	2021-2022			CO5	Understand analysis of complex issues, formulation of well-reasoned arguments and reaching better conclusions.
	2021-2022			CO6	Communicate accounting policy choices with reference to relevant laws and accounting standards.
15	2021-2022	C4201-4B	COST AND MANAGEMENT A/C	CO1	Understand various costing methods and managementtechniques.
	2021-2022			CO2	Apply Cost and Management accounting methods for both manufacturing and service industry.
	2021-2022			CO3	Prepare cost sheet, quotations, and tenders to organization for differentworks

	2021-2022			CO4	Analyze cost-volume-profit techniques to determine optimal managerialdecisions.
	2021-2022			CO5	Compare and contrast the financial statements of firms and interpret theresults.
	2021-2022			CO6	Prepare analysis of various special decisions, using relevant managementtechniques.
16	2021-2022	C4201-4C	INCOME TAX	CO1	Acquire the complete knowledge of the tax evasion, tax avoidance and taxplanning.
	2021-2022			CO2	Understand the provisions and compute income tax for varioussources.
	2021-2022			CO3	Grasp amendments made from time to time in FinanceAct.
	2021-2022			CO4	Compute total income and define tax complicacies and structure
	2021-2022			CO5	Prepare and File IT returns of individual at hisown.
17	2021-2022	C4201-4D	BUSINESS LAWS	CO1	Understand the legal environment of business and laws ofbusiness.
	2021-2022			CO2	Highlight the security aspects in the present cyber-crimescenario.
	2021-2022			CO3	Apply basic legal knowledge to businesstransactions.
	2021-2022			CO4	Understand the various provisions of CompanyLaw.
	2021-2022			CO5	Engage critical thinking to predict outcomes and recommend appropriate action on issues relating to business associations and legalissues.
	2021-2022			CO6	Integrate concept of business law with foreigntrade.
18	2021-2022	C4201-4E	AUDITING	CO1	Understanding the meaning and necessity of audit in modernera
	2021-2022			CO2	Comprehend the role of auditor in avoiding the corporatefrauds
	2021-2022			CO3	Identify the steps involved in performing auditprocess
	2021-2022			CO4	Determine the appropriate audit report for a given auditsituation
	2021-2022			CO5	Apply auditing practices to different types of businessentities
	2021-2022			CO6	Plan an audit by considering concepts of evidence, risk andmateriality
19	2021-2022	C4201-4F	GOODS AND SERVICE TAX	CO1	Understand the basic principles underlying the Indirect TaxationStatutes.

	2021-2022			CO2	Examine the method of tax credit. Input and Output Tax credit and Cross Utilisation of Input TaxCredit.
	2021-2022			CO3	Identify and analyze the procedural aspects under different applicable statutes related to GST.
	2021-2022			CO4	Compute the assessable value of transactions related to goods and services for levy and determination of dutyliability.
	2021-2022			CO5	Develop various GST Returns and reports for business transactions in Tally.
20	2021-2022	C3202-3A	Advanced Accounting	CO1	the student will able to;Ø Understand the concept of Non-profit organisations and its accounting process
	2021-2022			CO2	Comprehend the concept of single-entry system and preparation of statement of affairs
	2021-2022			CO3	Familiarize with the legal formalities at the time of dissolution of thefirm
	2021-2022			CO4	Prepare financial statements for partnership firm on dissolution of thefirm.
	2021-2022			CO5	Employ critical thinking skills to understand the difference between the dissolution of the firm and dissolution ofpartnership
21	2021-2022	C3202-3B	BUSINESS STATISTICS	CO1	Understand the importance of Statistics in reallife
	2021-2022			CO2	Formulate complete, concise, and correct mathematical proofs
	2021-2022			CO3	Frame problems using multiple mathematical and statistical tools, measuring relationships by using standardtechniques
	2021-2022			CO4	Build and assess data-basedmodels.
	2021-2022			CO5	Learn and apply the statistical tools in daylife.
22	2021-2022	C4202-4A	Corporate Accounting	CO1	Understand the Accounting treatment of Share Capital and aware of process of book building.
	2021-2022			CO2	Demonstratetheprocedure for issue of bonus shares and buyback ofshares.
	2021-2022			CO3	Comprehend the important provisions of Companies Act, 2013 and prepare final accounts of a company withAdjustments.

	2021-2022			CO4	Comprehend the important provisions of Companies Act, 2013 and prepare final accounts of a company with Adjustments.
	2021-2022			CO5	Understand analysis of complex issues, formulation of well-reasoned arguments and reaching better conclusions.
	2021-2022			CO6	Communicate accounting policy choiceswith reference to relevant laws and accountingstandards.
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	2021-2022			CO2	Apply Cost and Management accounting methods for both manufacturing and service industry.
	2021-2022			CO3	Prepare cost sheet, quotations, and tenders to organization for differentworks
	2021-2022			CO4	Analyze cost-volume-profit techniques to determine optimal managerial decisions.
	2021-2022			CO5	Compare and contrast the financial statements of firms and interpret theresults.
	2021-2022			CO6	Prepare analysis of various special decisions, using relevant managementtechniques.
24	2021-2022	C4202-4C	INCOME TAX	CO1	Acquire the complete knowledge of the tax evasion, tax avoidance and taxplanning.
	2021-2022			CO2	Understand the provisions and compute income tax for varioussources.
	2021-2022			CO3	Grasp amendments made from time to time in FinanceAct.
	2021-2022			CO4	Compute total income and define tax complicacies and structure
	2021-2022			CO5	Prepare and File IT returns of individual at hisown.
25	2021-2022	C4202-4D	BUSINESS LAWS	CO1	Understand the legal environment of business and laws ofbusiness.
	2021-2022			CO2	Highlight the security aspects in the present cyber-crimescenario.
	2021-2022			CO3	Apply basic legal knowledge to businesstransactions.
	2021-2022			CO4	Understand the various provisions of CompanyLaw.

	2021-2022			CO5	Engage critical thinking to predict outcomes and recommend appropriate action on issues relating to business associations and legalissues.
	2021-2022			CO6	Integrate concept of business law with foreigntrade.
26	2021-2022	COMM5201	COST ACCOUNTING	CO1	Students can understand the concept of cost, cost accounting, financial accounting, management accounting, preparation of cost sheet, elements of cost, Material control techniques
	2021-2022			CO2	Know the concept of labour cost, control cost of labour, methods of calculating labour cost
	2021-2022			CO3	Know different methods of costing such as job costing, contract costing
	2021-2022			CO4	Know the concept of marginal costing, BEP, P/V ratio and their uses in business
27	2021-2022	COMM5202	ADVANCED ACCOUNTING - I	CO1	Students can understand the self-balancing systems in accounting and accounting process of Royalties
	2021-2022			CO2	Know the concept of insolvency and its accounting process
	2021-2022			CO3	Know the concept of Partnership, its deed, revaluation of assets and liabilities of firm at the time of admission of partner
	2021-2022			CO4	Know the revaluation of assets and liabilities at the time of Retirement and Death of Partner
28	2021-2022	COMM5203	COMMERCIAL GEOGRAPHY	CO1	Student can understand the International structure of the Earth, environment pollution, global warming, measures to protect the earth, India and its nature of land, agriculture in India
	2021-2022			CO2	Know the importance of forest, status of forests in India and relevant acts relating to forests
	2021-2022			CO3	Know different minerals and Mines available in India
	2021-2022			CO4	Know different water resources available in India, Rivers and their importantce in India
29	2021-2022	COMM5204	GOODS AND SERVICES TAX FUNDAMENTALS - I	CO1	Students can understand Overview of GST, Need for Tax Reforms, Process of introduction of GST, Principles and Models of GST, transactions covered under GST

	2021-2022			CO2	Know the subsumed under GST, Taxes and duties outside the purview of GST, taxation of services
	2021-2022			CO3	Know the Inter-State Goods and Services Tax, Interstate Transactions under GST
	2021-2022			CO4	Know the time of supply of Goods & Services, availability of credit in special circumstances
30	2021-2022	COMM5205	CENTRAL BANKING	CO1	Student can understand Evolution and functions of Central Bank, Reserve Bank of India
	2021-2022			CO2	Know the Monetary and Credit Policies of Reserve Bank of India, credit control measures of RBI
	2021-2022			CO3	Know the concept of Inflation and Price control mechanism of Reserve Bank of India, Exchange rate stability
	2021-2022			CO4	Know how the RBI supervise and Regulate the Banks that are operating in India
31	2021-2022	COMM5206	RURAL AND FARM CREDIT	CO1	Students can understand the objectives and significance of Rural Credit, its classification, Rural Credit Agencies for Agriculture and Rural Industries
	2021-2022			CO2	Know the scope and importance of farm credit, its principles, its problems
	2021-2022			CO3	Know various sources of Farm credit, lead bank scheme, role of commercial and rural banks, problems of recovery
	2021-2022			CO4	Know how to analyse the Farm credit, importance of 3 R's and 3C's in farm credit
32	2021-2022	COMM6201	GOODS AND SERVICES TAX FUNDAMENTALS - II	CO1	Students can understand the process of Registration and Filing of GST, various administrative officers of GST
	2021-2022			CO2	Know how the self-assessment can be done under GST
	2021-2022			CO3	Know how to Levy and Exemption of Tax under GST
	2021-2022			CO4	Know various types of Customs Duties and problems on Customs Duty Assessment
33	2021-2022	COMM6202	AUDITING	CO1	Students can understand meaning, objectives, types of Auditing

	2021-2022			CO2	Know how to plan Audit and prepare Audit Programme
	2021-2022			CO3	Know how vouching and Investigation can be done
	2021-2022			CO4	Know how company's audit can be done and report can be submitted
34	2021-2022	COMM6203	MANAGEMENT ACCOUNTING	CO1	Students can understand the concepts of Financial and Cost Accounting, techniques of Financial Statement Analysis, different types of Ratios that are useful for analysis of companies
	2021-2022			CO2	Know how Funds Flow Statement can be prepared
	2021-2022			CO3	Know How to prepare Cash Flow Statement
	2021-2022			CO4	Know how to use Standard Costing is used for control
35	2021-2022	COMM6204	ADVANCED ACCOUNTING - II	CO1	Students can understand how to write accounts under Hire Purchase, Instalment Purchase System and Branch System
	2021-2022			CO2	Know how to write accounts for internal reconstruction of company
	2021-2022			CO3	Know how to write accounts for Liquidation of companies
	2021-2022			CO4	Know how to write accounts for profits prior to incorporation of company
36	2021-2022	COMM6205	FINANCIAL SERVICES	CO1	Students can understand the role of financial services, especially Merchant Banking Services
	2021-2022			CO2	Know the concepts of Leasing and Hire-Purchasing and their process
	2021-2022			CO3	Know the importance of Credit Rating, various Institutions
	2021-2022			CO4	Know the concepts of Factoring and Forfeiting, Central Depository System
37	2021-2022	COMM6206	MARKETING OF FINANCIAL SERVICES	CO1	Students can understand the difference between Goods and Services and how to construct Service Environment
	2021-2022			CO2	Know how the pricing and Promotion can be done in Service Industry
	2021-2022			CO3	Know how to distribute services and how cost and revenue can be managed

	2021-2022			CO4	Know how to Market Services in Retail Market
38	2021-2022	COMM5207	COST ACCOUNTING	CO1	Students can understand the concept of cost, cost accounting, financial accounting, management accounting, preparation of cost sheet, elements of cost, Material control techniques
	2021-2022			CO2	Know the concept of labour cost, control cost of labour, methods of calculating labour cost
	2021-2022			CO3	Know different methods of costing such as job costing, contract costing
	2021-2022			CO4	Know the concept of marginal costing, BEP, P/V ratio and their uses in business
39	2021-2022	COMM5208	ADVANCED ACCOUNTING - I	CO1	Students can understand the self-balancing systems in accounting and accounting process of Royalties
	2021-2022			CO2	Know the concept of insolvency and its accounting process
	2021-2022			CO3	Know the concept of Partnership, its deed, revaluation of assets and liabilities of firm at the time of admission of partner
	2021-2022			CO4	Know the revaluation of assets and liabilities at the time of Retirement and Death of Partner
40	2021-2022	COMM5209	COMMERCIAL GEOGRAPHY	CO1	Student can understand the International structure of the Earth, environment pollution, global warming, measures to protect the earth, India and its nature of land, agriculture in India
	2021-2022			CO2	Know the importance of forest, status of forests in India and relevant acts relating to forests
	2021-2022			CO3	Know different minerals and Mines available in India
	2021-2022			CO4	Know different water resources available in India, Rivers and their importantce in India
41	2021-2022	COMM5210	GOODS AND SERVICES TAX FUNDAMENTALS - I	CO1	Students can understand Overview of GST, Need for Tax Reforms, Process of introduction of GST, Principles and Models of GST, transactions covered under GST
	2021-2022			CO2	Know the subsumed under GST, Taxes and duties outside the purview of GST, taxation of services

	2021-2022			CO3	Know the Inter-State Goods and Services Tax, Interstate Transactions under GST
	2021-2022			CO4	Know the time of supply of Goods & Services, availability of credit in special circumstances
42	2021-2022	COMM6207	GOODS AND SERVICES TAX FUNDAMENTALS - II	CO1	Students can understand the process of Registration and Filing of GST, various administrative officers of GST
	2021-2022			CO2	Know how the self-assessment can be done under GST
	2021-2022			CO3	Know how to Levy and Exemption of Tax under GST
	2021-2022			CO4	Know various types of Customs Duties and problems on Customs Duty Assessment
43	2021-2022	COMM6208	AUDITING	CO1	Students can understand meaning, objectives, types of Auditing
	2021-2022			CO2	Know how to plan Audit and prepare Audit Programme
	2021-2022			CO3	Know how vouching and Investigation can be done
	2021-2022			CO4	Know how company's audit can be done and report can be submitted
44	2021-2022	COMM6209	MANAGEMENT ACCOUNTING	CO1	Students can understand the concepts of Financial and Cost Accounting, techniques of Financial Statement Analysis, different types of Ratios that are useful for analysis of companies
	2021-2022			CO2	Know how Funds Flow Statement can be prepared
	2021-2022			CO3	Know How to prepare Cash Flow Statement
	2021-2022			CO4	Know how to use Standard Costing is used for control
45	2021-2022	COMM6210	ADVANCED ACCOUNTING - II	CO1	Students can understand how to write accounts under Hire Purchase, Instalment Purchase System and Branch System
	2021-2022			CO2	Know how to write accounts for internal reconstruction of company
	2021-2022			CO3	Know how to write accounts for Liquidation of companies
	2021-2022			CO4	Know how to write accounts for profits prior to incorporation of company

DEPARTMENT OF Bio-Technology

COURSE OUTCOMES 2021-22

Sl No	Year	Course Code	Name of the course	Course Outcome code	Course Outcome
	2021-22			CO1	To know the structure, types and forms of Nucleic acids
1	2021-22				To have knowledge on Biomolecules, their importance and
1	2021-22		Biomolecules &	CO2	Classification.
	2021-22	S 1308	Analytical Techniques		To get familiar with the concept, principle and instrumentation of
	2021 22	B 1300	1	CO3	chromatography, Electrophoresis and Spectrophotometry
	2021-22				students would be able to know about the concept of mean, median,
				CO4	mode and ANOVA
	2021-22				To know about various types and characteristics of bacteria and
	-			CO1	viruses.
	2021-22			G 0 4	To understand the concept, principle, working of SEM and TEM
			MicroBiology, Cell &	CO2	and also get hands on Training of compound microscope.
2	2021-22	S 2308	Molecular Biology	~~~	Gain knowledge on structure and functions of eukaryotic and
	2021 22			CO3	prokaryotic cells and cell division
	2021-22				To know about mechanism of transcription, translation and also
				CO4	enzymes and inhibitors involved in it
	2021-22				To gain knowledge on Immune system, types of immunity, primary
	2021 22			CO1	and secondary lymphoid organ.
	2021-22	S 3308			To explain cell mediated immunity, Monoclonal antibody
	2021 22	5 5500	Immunology and r DNA	CO2	production and Hypersensitivity.
3	2021-22		Technology		To know about the classification of restriction endonucleases and
	2021-22			CO3	enzymes used in molecular cloning
	2021-22				To get familiarize with the cloning vehicles, cDNA libraries and
	2021-22			CO4	applications of r DNA technology in agriculture & Medicine
	2021-22				To understand principles of plant and animal culture, media
	2021-22		Plant & Animal	CO1	preparation.
	2021-22		Biotechnology		To know about the varieties and methods in the production of
	2021-22			CO2	transgenic plants

	2021-22	S-IV-4308			To get familiar with the techniques involved in the animal culture
	2021 22	511 1500		CO3	and maintenance of cell lines
4	2021-22				To understand about the invitro fertilization and gene transfer
				CO4	methods in animals and Concept of IPR
	2021-22			CO1	To know about the ecosystems and types of biogeochemical cycles
	2021-22				To understand about the concept of Domestic waste water
	2021-22			CO2	treatment, Classification Of Waste water treatment
5	2021-22	S-V-4307	Environmental &		Understand principles underlying design of Fermenter,
3	2021-22	3- V-4307	Industrial Biotechnology	CO3	Fermentation Process and downstream processing.
					To have the knowledge on Fermentative production of biomolecules
	2021-22				like vitamin, antibiotics, ethanol and production of recombinant
				CO4	proteins and having therapeutic applications.
	2021-22				To understand principles of plant and animal culture, media
	2021-22			CO1	preparation.
	2021-22				To know about the varieties and methods in the production of
	2021-22	6315	Plant & Animal	CO2	transgenic plants
6	2021-22	0313	Biotechnology		To get familiar with the techniques involved in the animal culture
0	2021-22			CO3	and maintenance of cell lines
	2021-22				To understand about the invitro fertilization and gene transfer
	2021-22			CO4	methods in animals and Concept of IPR
	2021-22			CO1	To know about the ecosystems and types of biogeochemical cycles
	2021 22	1			To understand about the concept of Domestic waste water
	2021-22			CO2	treatment, Classification Of Waste water treatment
	2021 22	6316 A1	Environmental		To know about the concept and methods of bioremediation and
	2021-22	0310 A1	Biotechnology	CO3	biodegradation
]			To have knowledge on genetically modified compounds and the
7	2021-22				role of genetically engineered microbes in environment
				CO4	management
	2021-22	6316 A2	Industrial Distanbasis and		Develop skills associated with screening of Industrially Important
	2021-22	0310 A2	Industrial Biotechnology	CO1	Strains.

	2021-22				Understand principles underlying design of Fermenter,
	2021 22			CO2	Fermentation Process and downstream processing.
	2021-22				To have the knowledge on Fermentative production of biomolecules
	2021-22			CO3	like vitamin, antibiotics, ethanol
8	2021-22				To know about the production of recombinant proteins and having
0	2021-22			CO4	therapeutic applications.
	2021-22				To know about the basic principle about human genome project and
	2021-22			CO1	chromosome organization
	2021 22				To gain knowledge on gene therapy and infectious diseases caused
	2021-22	(216) 2	Madical Distantantana	CO2	by various organisms
	2021 22	6316A3	Medical Biotechnology		To know the concept of embryonic stem cell culture and molecular
	2021-22			CO3	diagnostics like PCR, ELISA and FISH
0	2021 22				To understand the concept of IPR, human cloning and prenatal sex
9	2021-22			CO4	determination
			DEPA	ARTMENT O	OF Botany
			COURS	E OUTCOM	ES 2021-22
				Course	
Sl No	Year	Course Code	Name of the course	Outcome	Course Outcome
				code	
			FUNDAMENTALS OF		
1	2021-2022	BOT S1306	MICROBES & NON -		Classify and compare Pteridophytes and Gymnosperms based on
			VASCULAR PLANTS	CO1	their morphology, anatomy, reproduction and life cycles.
	2021 2025				Justify evolutionary trends in tracheophytes to adapt for land
	2021-2022			CO2	habitat.
	2021 2022				Critically understand various taxonomical aids for identification of
	2021-2022			CO3	Angiosperms.
	2021-2022				Analyze the morphology of the most common Angiospermplantsof
	2021-2022			CO4	their localities and recognize their families.

	2021-2022			CO5	Evaluate the ecological, ethnic and economic value of different tracheophytes and summarize their goods and services for human welfare
2	2021-2022	BOT S1306*P	FUNDAMENTALS OF MICROBES & NON - VASCULAR PLANTS (P)	CO1	Demonstrate the techniques of section cutting, preparing slides, identifying of the material and drawing exact figures.
	2021-2022			CO2	Compare and contrast the morphological, anatomical and reproductive features of vascular plants.
	2021-2022			CO3	Identify the local angiosperms of the families prescribed to their genus and species level and prepare herbarium.
	2021-2022			CO4	Exhibit skills of preparing slides, identifying the given twigs in the lab and drawing figures of plant twigs, flowers and floral diagrams as they are.
	2021-2022			CO5	Prepare and preserve specimens of local wild plants using herbarium techniques.
3	2021-2022	BOT S2306	BASICS OF VASCULAR PLANTS & PHYTOGEOGRAPHY	CO1	Explain origin of life on the earth through scientific theories and understand the evolution of DNA and RNA
	2021-2022			CO2	Illustrate diversity among the viruses and prokaryotic organisms and can categorize them.
	2021-2022			CO3	Classify fungi, lichens, algae and bryophytes based on their structure, reproduction and life cycles.
	2021-2022			CO4	Analyze and ascertain the plant disease symptoms due to viruses, bacteria and fungi.
	2021-2022			CO5	Recall and explain the evolutionary trends among amphibians of plant kingdom for their shift to land habitat.
	2021-2022			CO6	Evaluate the ecological and economic value of Microbes, Thallophytes and Bryophytes.

4	2021-2022	BOT S2306*P	BASICS OF VASCULAR PLANTS & PHYTOGEOGRAPHY (P)	CO1	Demonstrate the techniques of use of lab equipment, preparing slides and identify the material and draw diagrams exactly as it appears.
	2021-2022			CO2	Observe and identify microbes and lower groups of plants on their own.
	2021-2022			CO3	Demonstrate the techniques of inoculation, preparation of media etc.
	2021-2022			CO4	Identify the material in the permanent slides etc.
5	2021-2022	BOT S3306	ANATOMY AND EMBRYOLOGY OF ANGIOSPERMS, PLANT ECOLOGY AND BIODIVERSITY	CO1	Understand on the organization of tissues and tissue systems in plants.
	2021-2022			CO2	Illustrate and interpret various aspects of embryology
	2021-2022			CO3	Discuss the basic concepts of plant ecology, and evaluate the effects of environmental and biotic factors on plant communities.
	2021-2022			CO4	Appraise various qualitative and quantitative parameters to study the population and community ecology.
	2021-2022			CO5	Correlate the importance of biodiversity and consequences due to its loss
	2021-2022			CO6	Enlist the endemic/endangered flora and fauna from two biodiversity hot spots in India and assess strategies for their conservation.
6	2021-2022	BOT S3306*	ANATOMY AND EMBRYOLOGY OF ANGIOSPERMS, PLANT ECOLOGY AND BIODIVERSITY (P)	CO1	Get familiarized with techniques of section making, staining and microscopic studyof vegetative, anatomical and reproductive structure of plants.

	2021-2022			CO2	Observe externally and under microscope, identify and draw exact
				CO2	diagrams of thematerial in the lab
	2021 2022				Demonstrate application of methods in plant ecology and
	2021-2022			G 0 0	conservation of biodiversity and qualitative and quantitative aspects
				CO3	related to populations and communities of plants.
7	2021-2022	BOT	PLANT PHYSIOLOGY		Comprehend the importance of water in plant life and mechanisms
,	2021 2022	SIV4306	AND METABOLISM	CO1	for transport ofwater and solutes in plants.
	2021-2022				Evaluate the role of minerals in plant nutrition and their deficiency
	2021-2022			CO2	symptoms.
	2021-2022			CO3	Interpret the role of enzymes in plant metabolism.
	2021-2022				Critically understand the light reactions and carbon assimilation
	2021-2022			CO4	processes responsible for synthesis of food in plants.
	2021 2022				Analyze the biochemical reactions in relation to Nitrogen and lipid
	2021-2022			CO5	metabolisms.
	2021 2022				Evaluate the physiological factors that regulate growth and
	2021-2022			CO6	development in plants.
	2021 2022				Examine the role of light on flowering and explain physiology of
	2021-2022			CO7	plants under stress conditions.
			PLANT PHYSIOLOGY		Conduct lab and field experiments pertaining to Plant Physiology,
8	2021-2022	BOT	AND METABOLISM		that is, biophysical and biochemical processes using related
O	2021 2022	SIV4306*	(P)	CO1	glassware, equipment, chemicals and plant material.
			(1)	201	Estimate the quantities and qualitative expressions using
	2021-2022			CO2	experimental results and calculations
				CO2	Demonstrate the factors responsible for growth and development in
	2021-2022			CO3	
			CELI	COS	plants.
0	2021 2022	DOT 01/4206	CELL		Distinguish prokaryotic and eukaryotic cells and design the model
9	2021-2022	BOT SV4306	,	GO1	of a cell.
			& PLANT BREEDING	CO1	
	2021-2022				Explain the organization of a eukaryotic chromosome and the
				CO2	structure of geneticmaterial.
1	2021-2022				Demonstrate techniques to observe the cell and its components
	2021 2022			CO3	under amicroscope

	2021-2022			CO4	Discuss the basics of Mendelian genetics, its variations and interpret inheritance of traits in living beings.
	2021-2022			CO5	Elucidate the role of extra-chromosomal genetic material for inheritance of characters.
	2021-2022			CO6	Evaluate the structure, function and regulation of genetic material.
	2021-2022			CO7	Understand the application of principles and modern techniques inplant breeding.
	2021-2022			CO8	Explain the procedures of selection and hybridization for improvement of crops.
10	2021-2022	BOT SV4306*	CELL BIOLOGY,GENETICS & PLANT BREEDING (P)	CO1	Show the understanding of techniques of demonstrating Mitosis and Meiosis in the laboratory and identify different stages of cell division.
	2021-2022			CO2	Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models
	2021-2022			CO3	Solve the problems related to crosses and gene interactions.
	2021-2022			CO4	Demonstrate plant breeding techniques such as emasculation and bagging
11	2021-2022	BOT 5311	CELL BIOLOGY,GENETICS & PLANT BREEDING	CO1	Understand the basic components of cell, key role of cell division during cell cycle
	2021-2022			CO2	Realize the cell as a structural and functional unit of life, understand basic components of a cell & explain its organelle functions
	2021-2022			CO3	Understand the Chromosomes and its genetical components structure and mechanism
	2021-2022			CO4	Explain about inheritance and behaviour of chromosomes through study of genetics
	2021-2022			CO5	Describe Plant Breeding techniques and produce new crop varieties superior to existing types in agriculture and horticulture.
12	2021-2022	BOT 5311*P	CELL BIOLOGY,GENETICS	CO1	Understand the structure of cell organelles through photomicrographs

			& PLANT BREEDING (P)		
	2021-2022			CO2	Describe the various stages of mitosis using cytological preparation of Onion root tips. Understand the DNA packing in chromosome through micrographs
	2021-2022			CO3	Solving numerical problems using Mendel" Laws of inheritance
	2021-2022			CO4	Explain Hybridization techniques – emasculation, bagging and understand artificial cross pollination.
	2021-2022			CO5	Estimation of DNA by diphenylamine method through Calorimetry
13	2021-2022	BOT 5312	PLANT ECOLOGY & PHYTOGEOGRAPHY	CO1	Explain various Ecosystems & relationships between Organisms and environment.
	2021-2022			CO2	Describe the Various Eco systems and Plant distribution.
	2021-2022			CO3	Discuss Phytogeography, the major plant communities of the world and differentVegetational belts of the earth with characteristic climatic Conditions of the area.
	2021-2022			CO4	Identify Phyto geographical Regions of India, Plant Biodiversity and its importance using additional OE resources available in the internet using modern ICT tools.
	2021-2022			CO5	Elaborate plant population and community Ecology
14	2021-2022	BOT 5312*P	PLANT ECOLOGY & PHYTOGEOGRAPHY (P)	CO1	Understand the Ecosystem: Types, structure and functions of ecosystem (pond ecosystem). Determine minimal quadrat size and understand herbaceous vegetation in the college campus by species area curve method
	2021-2022			CO2	Discuss productivity of ecosystem-Primary, Secondary and Net productivity
	2021-2022			CO3	Understand Plant succession-Hydrosere and Xerosere
	2021-2022			CO4	Identify the hotspots, phyto geographical regions and distribution of endemic plants in the map of India.
	2021-2022			CO5	Explain Biodiversity, causes and conservation (In-situ and ex-situ methods) and various methods in Seed banks using additional OE resources available in the internet using modern ICT tools.

15	2021-2022	BOT 6311	PLANT TISSUE CULTURE & ITS BIOTECHNOLOGICAL APPLICATIONS	CO1	Understand the Plant Tissue Culture Research, Principles, Totipotency, Callus Culture, Meristem Culture, Organ Culture, Differentiation and Dedifferentiations.
	2021-2022			CO2	Discus about Cryo preservation, embryo culture, production of secondary metabolites, applications of Tissue Culture.
	2021-2022			CO3	Discus about restriction endonuclease, cloning vectors, genecloning.
	2021-2022			CO4	Discuss about methods of gene transfer and selection of transgenics
	2021-2022			CO5	Discuss about the applications of plant genetic engineering
16	2021-2022	BOT 6311*P	PLANT TISSUE CULTURE & ITS BIOTECHNOLOGICAL APPLICATIONS (P)	CO1	Know about establishment of tissue culture Instrumentation lab for performing Plant Tissue Culture.
	2021-2022			CO2	Understand different sterilization methods for Preparation of mother plants for collection and inoculation of explants
	2021-2022			CO3	Understand different types of cultures and preparation of nutrient media
	2021-2022			CO4	Understand the importance of tissue culture for production of phytochemical medicinal compounds
	2021-2022			CO5	Understand the genetic engineering mechanism and application for the production of GM plants
17	2021-2022	BOT 6312A1	BIOLOGICAL INSTRUMENTATION	CO1	understand the principles of optics, components of a light microscope and Electron Microscope and its applications in observation of slides
	2021-2022			CO2	Understand and differentiate working principle, instrumentation and applications of various bio-analytical instruments for Ph meter, Spectrophotometry, Chromatography
	2021-2022			CO3	Understand how to estimate and establish the values recorded through instruments
	2021-2022			CO4	Can establish research ethical values and presentation skills

	2021-2022			CO5	Understand the advancement in biological instruments and application of biological techniques used in modern research
17	2021-2022	BOT 6312A1*P	BIOLOGICAL INSTRUMENTYATION (P)	CO1	Knowledge on different instruments used to conduct various Biological Experiments
	2021-2022			CO2	Understand the Compound microscopy and apply measurements of small objects through micrometry
	2021-2022			CO3	understand the different type of solutions and its preparation methods for analysing the samples
	2021-2022			CO4	Understand and apply the of usage of instruments for qualitative and quantitative analysis through chromatography and spectrophotometry
	2021-2022			CO5	Understand the Ph value and analyze the ph values with different samples.
18	2021-2022	BOT 6312A2	MUSHROOM CULTIVATION	CO1	knowledge of different types of edible Mushrooms and poisonous mushrooms
	2021-2022			CO2	Understand the Spawn production technology and apply laboratory techniques to the capture, culture, and fruiting of many types of mushrooms in the home kitchen lab.
	2021-2022			CO3	Understand and apply Post harvesting techniques for preservation and export of Mushrooms.
	2021-2022			CO4	Understand the nutrition value of mushrooms and able to prepare value added Culinary products out of Mushrooms
	2021-2022			CO5	Can establish small scale industry of Mushroom cultivation and become an Enterpreneur.
19	2021-2022	BOT 6312A2*P	MUSHROOM CULTIVATION (P)	CO1	Able to identify and differentiate edible and poisonous Mushrooms through morphology.
	2021-2022			CO2	Understand the media preparation for mother spawn and commercial spawn production
	2021-2022			CO3	Understand how to utilize the plant waste material as Compost
	2021-2022			CO4	Understand the importance of sterilization procedure and apply for maitainance of mushroom cultivation

	2021-2022			CO5	Able to identify Climatic requirements for Mushroom cultivation and know the methods of harvesting, grading, packing and storing of Mushrooms
20	2021-2022	BOT 6312A3	PROJECT WORK/INTERNSHIP	CO1	Understand the different types or formats of scientific communications
	2021-2022			CO2	Understand the need for Plagiarism and reasearch ethics in conduct of research program
	2021-2022			CO3	Learn how to collect, read and manage research information
	2021-2022			CO4	Understand how to Plan experiments, conduct and observe results for Designing a project proposal
	2021-2022			CO5	Understand how to Write and publish results effectively
			Department of English		
			Course Outcomes 2021- 22		
S. No.	Course Code	Course Title	Semester	СО	Course Outcomes
1	LE101 (Gen Eng)	A Course in Communicati on and Soft Skills	Ι	CO1	Students will learn to be an effective listener in both personal and professional life
				CO2	Students will be able to speak effectively with proper pronunciation and good vocabulary
				CO3	Students will understand the techniques of writing
				CO4	Students will acquire soft skills usage in professional and daily life
2	LE201 (Gen Eng)	A Course in Reading and Writing Skills	II	CO1	Students will be able to use reading skills effectively and analyse what is being read
				CO2	Students will be able to comprehend and interpret different types of texts
				CO3	Students will be able to use good writing strategies

				CO4	Students will be able to write well for any purpose independently
3	LE301 (Gen Eng)	A course in conversationa l skills	III	CO1	Students could learn how to overcome mother tongue influence on English and to know the etiquette and manners
				CO2	Students will learn about how to manage falures in their life.
				CO3	Students will be able to acquire skills of asking and giving information.
				CO4	Students will acquire conversational skills its usage in professional and daily life.
4	A1106 (Adv Eng)	Language and Literature I	I	CO1	To introduce forms of poetry, Brief Survey of English Language, word formation
				CO2	To introduce forms of poetry, Brief Survey of English Language, word formation
				CO3	Students will be able to learn the importance of social service
				CO4	Students could develop positive attitude in life
5	A2106 (Adv Eng)	Language and Literature II	II	CO1	To introduce Semantics, Drama, epic
				CO2	To gain knowledge about the different literay forms like Allegory, Masque, Metaphor, etc.
				CO3	To gain knowledge on the work of Shakespeare
				CO4	To gain knowledge on the work of Milton to make the students wiser
6	AE3106 (Adv Eng)	An Introduction to English Language and Literature III	III	CO1	To introduce Literacy forms and Terms, Mock, epic poems and classic prose selection

				CO2	Enables the students to know the difference between epic and Mock epic, and to know the evince of classic prose
				CO3	To know stature of classical epics and understand the triviality of the incidents
				CO4	To enable the students to read more books and get good education
7	AE4106 (Adv Eng)	An Introduction to English Language and Literature IV	IV	CO1	To Introduce History of English Language, classical fiction and Romanticism, Non-fiction
				CO2	Students are enabled to enlighten by reading the works of Francis Bacon's works
				CO3	To develop the concept of Aestheticism and to give awareness about temporary pleasure
				CO4	To emphasize the difference between appearance and reality
8	AE5111 (Adv Eng)	Paper I - An Outline of Twentieth Century Literature	V	CO1	To introduce the literary forms and terms
				CO2	To enable the students to know about different structures of twentieth century literature
				CO3	To compare the relation between Politics and English Language
				CO4	To develop the moral values through the play
9	AE5112 (Adv Eng)	Paper II - Glimpses of World Literature	V	CO1	To introduce Glimpses of world literature.
				CO2	To enable the students to have a bird's view of the world Literature
				CO3	To understand the concept of Racism

				CO4	To analyse the theme of Crime and Punishment
10	AE6111 (Adv Eng)	General Paper - Study of Literary Criticism	VI	CO1	To introduce the literary movements and concepts
				CO2	To understand the comments of different literary critics
				CO3	To evaluate the difference between poetry concepts and tragedy
				CO4	To enable the students to understand the concept of Romantic Movement in England
11	AE 6112A1 (Adv Eng)	Cluster Paper I - American Literature	VI	CO1	Students will be able to know the different works of American Literature
				CO2	Students could learn about the greatness of Lincoln
				CO3	To understand the value of family relationship
				CO4	To anlyse the concept of self-reliance
12	AE6112A2 (Adv Eng)	Cluster Paper II - Indian Literature	VI	CO1	Students could learn about the works of Indian Literature
				CO2	Students will be able to acquire patriotism
				CO3	To know the issues of class and communities from the play of Final Solutions
				CO4	Students will be able to learn about the Indian immigrant experience
13	AE6112A3 (Adv Eng)	Cluster Paper III - British Literature	VI	CO1	Students could learn about the Reniasance period works
				CO2	Students will learn about the agony of loss due to tragic flaws
				CO3	To develop the Aestheticism by observing nature
				CO4	Students will learn how to impart kindness, sympathy and genenorosity
<u>'</u>			DEP	ARTMENT (OF HINDI

			COURS	E OUTCOM	ES 2021-22
Sl No	Year	Course Code	Name of the Course	Course Outcome code	Course Outcome
1	2021-2022	LH103	Gadhya sandesh	CO-1	students would be able to understand the hindi sahithya
				CO-2	students would be able to understand qualities of friendship
				CO-3	studets able to understand the greatness of honesty
				CO-4	students able to understand the deshbhakthi
2	2021-2022	LH203	Gadhya sandesh	CO-1	Here students able to understand the greatness of india
				CO-2	students able to undetstsnd the awereness of HIV-AIDS
				CO-3	students to able to understand the poverty in india
				CO-4	students to able to understand the grammar of hindi
3	2021-2022	LH303	kavyadeep	CO-1	Students able to understand th moral poems kabeerdas
				CO-2	Students able to understand the hindi litereture
				CO-3	students able to undersatnd the hindi sahithya ka ithihas
				CO-4	students able to understand translation of HINDI functional hindi
		S.I	K.R & S.K.R. GOVERNME	NT COLLEC	GE FOR WOMEN (A): KADAPA
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			COURS	E OUTCOM	ES 2021-22
Sl No	Year	Course Code	Name of the course	Course Outcome code	Course Outcome
1	2021-2022	LT101	ప్రాచీన తెలుగు కవిత్వం	CO1	ప్రాచీన తెలుగు సాహిత్యం యొక్క ప్రాచీనతను, విశిష్టతను గుర్తిస్తారు . తెలుగు సాహిత్యంలో ఆది కవి నన్నయ్య కాలం నుంచి భాషా సంస్కృతులులను , ఇతిహాసాలును ఆనాటి రాజనీతి లాంటి విషయాలు పట్ల పరిజ్ఞానం సంపాదించ గలరు

				CO2	శివకవుల కాలంనాటి మత పరిస్థితులను భాషా విశేషాలును గ్రహిస్తారు.తెలుగు నుడికారం ,సా
				CO3	తిక్కన భారతం నాటి సంస్కృతి, ధార్మిక పరిస్థితులును , తిక్కన కవితా శిల్పాన్ని,నాటకీయతను అవగాహన చేసుకో గలరు
				CO4	ఎ(రన సూక్తి వెచ్చితి,
					ఆంగ్ల భాష్మప్రభావం కారణం గా తెలుగు లో వచ్చిన ఆధునిక
				CO1	సాహిత్యాన్ని, దాని విశిష్టతను గుర్తిస్తారు
			\		సమకాలీన ఆధునిక సాహిత్య ప్రక్రియ అయిన వచన కవిత్యం
2	2021-2022	LT201	ఆధునిక తెలుగు	CO2	కథ,నవల, నాటకం,విమర్శల పై అవగాహన పొందుతారు
			సాహిత్యం		భావ కవిత్వం అభ్యుదయ కవిత్వం లక్ష్మాన్ని గురించి జ్ఞానాన్ని
				CO3	పొందుతారు
				CO4	కథా సాహిత్యం ద్వారా సామాజిక చైతన్యాన్ని పొందుతారు
		LT301	సృజనాత్మకత రచన		తెలుగు సాహిత్య అభ్యాసం ద్వారా నేర్చుకున్న నైపుణ్యాలును
				CO1	సృజనాత్మకత నైపుణ్యాలు గా మార్చుకోగలరు
					విద్యార్థులు భాషా తత్వాన్ని భాష యొక్క ఆవస్యకతను భాషా
3	2021-2022			CO2	నైపుణ్యాలు ను మెరుగు పరుచుకోగలరు
3	2021-2022				సృజనాత్మకత రంగం, ప్రసార మాధ్యమాల్లో ఉపాధి అవకాశాలు
				CO3	అందిపుచ్చుకొని ఆనందించ గలరు
					వ్యాస రచన మెళకువలు నేర్చుకుని ఉత్తమ వ్యాస రచనలు
				CO4	చేయగలరు
			Di	EPARTMEN	T OF POLITICAL SCIENCE
			1	1	E OUTCOMES 2021-22
g Mc	I I I I I I I I I I I I I I I I I I I		THE LE	Course	
<u>S.NO</u>	YEAR	YEAR	YEAR	Outcome Code	Course Outcomes

1	2021-22	POL A 1103	Introduction to Political Science	CO1	Analysing what is Political Science and explaining the approaches to the Study of Political Science - Normative, Behavioral, Post Behavioral, Marxist approaches.
				CO2	Assessing the theories of State(Origin, Nature, Functions): Devine, Force, Social contract, Historical and Evolutionary theories.
				CO3	Explaining the concept of State Sovereignty: Monistic and Pluralistic Theories. Analysing the changing concept of Sovereignty in the context of Globalisation.
				CO4	Understanding basic concepts of Liberty, Equality, Rights, Law and Justice.
2	2021-2022	POL A 2103	Basic Organs of the Government	CO1	Understanding the Origin and Evolution of the concept of Constitutionalism and classification of Constitutions
				CO2	Acquaint themselves with different theories of origin of State. The legislature: Rajya Sabha, Lok Sabha, Speaker, Committee System, State Legislature.
				CO3	Understand and analyses organs and forms of Governments along with a deep insight into the various agents involved in the political process.
				CO4	Apply the knowledge to analyse and evaluate the existing systems.
3	2021-2022	POL 3103	Indian Government & Politics	CO1	To know about the evolution of Indian Constitution with a focus on the role of the Constituent assembly and examining the essence of the preamble.
				CO2	Examining the fundamental rights and duties of Indian Citizens with a study of the significance and status of directive principles.
				CO3	Assessing the nature of Indian Federalism with focus on Union-State relations.
				CO4	Critically analysing the important institutions of the Indian union: the Executive: President; Prime minister, Council of Ministers;
4	2021-2022	POL 4103	Indian Political Process	CO1	Critically analysing the important Judicial institutions: Supreme court and the High courts: composition and functions-judicial activism.

					Critically evaluating the Indian party system-its development and looking at ideology of dominant national parties. Evaluating the
					electoral process in India with focus on the election commission:
				CO2	composition, functions and role.
					Critically analysing the important institutions of the State
				CO3	Governments: Governor, Chief Minister and Council of Ministers.
					Evaluating the role of various forces on Indian politics and National
					integrity: Religion; language; caste; tribe; Regionalism; Business;
				CO4	working class and peasants.
5	2021-2022	POL 5105	Indian Political Thought		Tracing the evolution of Indian Political thought from ancient India
	2021-2022	1 OL 3103	maian i onticai i nought	CO1	to Modern India.
				CO2	Analysing the Nationalist Thought of Raja Ram Mohan Roy.
					Discussing the roots of communalism- Savarkar and Hindu
				CO3	Nationalism and Jinnah and the two nation theory.
					Describing the movements against caste and Untouchability,
				CO4	Ambedkar's views on Social justice and the depressed classes.
6	2021-2022	POL 5106	Western Political		To have an idea on Western Political philosophy and to know the
U	2021-2022	1 OL 3100	Thought	CO1	ideas of various thinkers like Plato and Aristotle.
					Evaluating the Renaissance; Political thought of reformation and
				CO2	Machiavelli.
					To have an idea on modern political thought propounded by
				CO3	Hobbes, Locke, Rousseaue.
					To have an idea on theory of Bentham's utilitarianism and JS Mills
					views on liberty, representative governments and Karl Marx's view
				CO4	on communalism.
7	2021-2022	POL 6105	Principles of Public		Explaining the nature, scope, importance and evolution of public
	2021 2022	1020103	Administration	CO1	administration; private and public administrations.
					To have more knowledge on administrative planning, leadership
				CO2	and supervision.
					To be able to understand line, staff agencies and various principles
				CO3	of Organization.

				CO4	To know about Public Administration in context of Globalisation, Privatization and Liberalisation.
8	2021-2022	POL 6106A1	INTERNATIONAL RELATIONS	CO1	To know about the meaning ,nature and scope of International Relations
			1.01.12	CO2	To have more knowlede on Idealism, Classical Realism and Neo-Realism
				CO3	To be able to understand the Impact of the Ist & IInd World Wars
				CO4	To be able to understand the role of UNO in the protection of International Peace
9	2021-2022	POL 6106A2	iNDIAN fOREIGN POLICY	CO1	To have an idea on evolution of Indian Foreign Policy
				CO2	To be able to understand the role of India in the Non-Alignment Movement
				CO3	To know about the Indias Relation with USA & China
				CO4	To have an idea on Indias role in SAARC
10	2021-2022	POL 6106A3	CONTEMPORARY GLOBAL ISSUES	CO1	Students will get awareness about Globalization
				CO2	To have more knowledge about World Bank, IMF & World Trade Organisation
				CO3	To be able to understand the role of Nation State in the context of Globalization
			DEP	PARTMENT	OF TTM
			COURS	SE OUTCOM	IES 2021-22
Sl No	Year	Course Code	Name of the Course	Course Outcome code	Course Outcome
1	2021-2022	A1107	Basics of Tourism	CO1	Students would be able to understand the tourism basics ,it's nature,scope.
				CO2	Students would be able to understand about the history of tourism, it's developments.
				CO3	Students will be able to learn its various types,.

				CO4	Students would be able to understand the tourism and learn about its growth.
2	2021-2022	A2107	Principles and Practices of Tourism	CO1	students would be able to understand that the tourism principles to approach the study of tourism.
				CO2	students would be able to understand and practice the tourism principles that helps their skills as guide.
				CO3	The student will have good knowledge in tourism
				CO4	The learner will able to get the benefits of tourism.
3	2021-2022	A3107	Tourism Products	CO1	The Student will able to know about the products that traveller had to take away while he is travelling.
				CO2	The student can learn that the needs of the tourist.
				CO3	The learner will aware of concept, types and characteristics of tourism products
				CO4	students would be able to understand Definition, scope and contents of geography of tourism
4	2021-2022	A-IV4107	Cultural Tourism in Andhra Pradesh	CO1	Students could gain knowledge of different cultures
				CO2	students could learn about Buddhist culture
				CO3	To introduce pre history and proto history
				CO4	students will understand the communication skills
		A-V 4107	Guiding and Interpretation Skills for Tourism	CO1	students would be able to understand Guides and escorts
				CO2	students would be able to learn types of tour guides
				CO3	Explain the responsibilities of tour guides
				CO4	students will be able to understand Guest relationship management
5	2021-2022	5113	Guiding and Interpretation Skills for Tourism	CO1	students would be able to understand Guides and escorts
				CO2	students would be able to learn types of tour guides

				CO3	Explain the responsibilities of tour guides
				CO4	students will be able to understand Guest relationship management
6	2021-2022	5114	Travel Agency and Tour Operation Business	CO1	To introduce Travel agency and tour operation business
				CO2	students will be able to learn structure of travel agency
				CO3	Explaining the difference between travel agent and tour operator
				CO4	students could gain knowledge of different cultures
7	2021-2022	6113	Tourism Marketing and hospitality Management	CO1	students would be able to understand the Marketing and Hospitality
				DEPARTN	MENT OF CHEMISTRY
				COURSE	OUTCOMES 2021-22
S.NO	COURSE CODE	COURSE TITLE		COURSE OUT COMES	
1	1303	In Organic and Organic chemistry		CO1	Understand physical and chemical properties of various elements in the periodic table.
		j	SEM - I MPC,BMC,BIOTECH,B	CO2	Understand the synthesis of different compounds from organo metallic chemistry.
			ZC(EM/TM)	CO3	Understand the structure and reactions of various organic intermediates.
				CO4	Gain Knowledge on different types of organic reactions.
2	1303P	Simple Salt Analysis	SEM - I MPC,BMC,BIOTECH,B ZC (EM/TM)	CO1	Apply basis analytical techniques to detect the anions and cations present in the given salt sample
3	2303	Physical and general chemistry	SEM - II MPC,BMC,BIOTECH,B ZC (EM/TM)	CO1	Develop basic Knowledge on solids, Liquids and gases.

				CO2	Gain Knowledge on seperation techniques of solutions
				CO3	Know the different types of configurations of organic molecules by learning stereo chemistry.
				CO4	Gain knowledge about different types of colloidal systems like emulsion, gels.
4	2303P	Analysis of mixture salt	SEM - I		Apply basis analytical techniques to detect the anions and cations
			MPC,BMC,BIOTECH,B ZC(EM/TM)		present in the given salt mixture
				CO1	
5	3303	Inorganic and Organic Chemistry	CO1	Gain basic knowledge on d - block & f - block elements.	
			SEM - III MPC,BMC,BIOTECH,B ZC(EM/TM)	CO2	Attain knowledge on halogen compounds
				CO3	Understand the importance of hydroxyl compounds in day to day life
				CO4	Develop basic knowledge of carbonyl compounds and carboxylic acid derivatives.
6	3303P	Titrimetric analysis and organic functional group reactions	SEM - III MPC,BMC,BIOTECH,B ZC(EM/TM)	CO1	Acquire knowledge about the identification of functional groups in organic compounds
				CO2	Understand the concept of Quantitative estimation
7	4303	Spectroscopy & Physical chemistry	SEM - IV MPC,BMC,BIOTECH,B ZC(EM/TM)	CO1	Find out Unsaturation in organic compounds

				CO2	Know the functional group and entire structutre on unknown organic compounds Acquire knowledge on estimation of colored ions quantitatively
				CO4	Understand the concept of different phases and electrochemical reactions
8	4303P	Physcal Chemistry and IR Spectral analysis	Chemistry and IR Spectral SEM - IV	CO1	Attain knowledge on critical solution temperature of Phenol - Water system
			ZC(EM/TM)	CO2	Aplly conductometric titrations to different acid - base mixture
				CO3	Acquire basic knowledge of IR Spectroscopy with the help of spectra
9	5305 Physical organic	-	SEM - V MPC,BMC,BIOTECH,B	CO1	Understand the theories and applications of coordination complexes
			ZC(EM/TM)	CO2	Gain the knowledge on the reactivity of Nitrogen compounds
				CO3	Attain basic knowledge on thermodynamics.
				CO4	Relate laws of thermo dynamics to day to day activities
10	5305P	Practical paer V Organic chemistry	SEM - V MPC,BMC,BIOTECH,B ZC(EM/TM)		Gain the knowledge about the identification of functional group in organic compounds and preparation of their coooreponding derivatives.
				CO1	derivatives.
11	5306	Inorganic Organic and		CO1	Gain knowledge on biological importance of essential elements.

		Physical chemistry	ZC(EM/TM)			
				CO2	Acquire knowledge on photo physical and photo chemical reactions and thier applications.	
				CO3	Understand the concept of hetero cyclic compounds and their importance.	
				CO4	Understand the importance of essential amino acids and proteins.	
12	5306P	Practical paer VI Physical chemistry	SEM - V	CO1	Determine and compare the viscosity of different organic compounds.	
	MPC,BMC,BIOTECH,B ZC(EM/TM)	CO2	Determine and compare the surface tension of differnt organic compounds			
				CO3	Determine the order of reaction with the help of chemical kinetics	
13	al chemistry	CO1	Understand the importance of environment and its resources			
			SEM - VI MPC,BMC,BIOTECH,B ZC(EM/TM)	CO2	Attain knowlegde on different types of pollution and thier controlling measures.	
				CO3	understand the effects of toxic chemicals and their remedies.	
				CO4	Develop awareness of eco system abd bio diversities of the nature.	
14	Paper VII P	Practical paer VI A	SEM - VI	CO1	Gain knowledge abiut the estimation of alkalinity of water	
			MPC,BMC,BIOTECH,B ZC(EM/TM)	CO2	Gain knowledge abiut the estimation of hardness of water	
15	Cluster A1	Fuel chemistry and batteries	SEM - VI MPC,BMC,BIOTECH,B	CO1	Attain knowledge on working principle of different types of batteries.	
			ZC(EM/TM)	CO2	Understand the applications of lubricants in day to day life.	
·				CO3	Gain the knowledge on the products obtained from petroleum.	

				CO4	Uunderstand the composition and properties of fuels.
16	Cluster A1 Practicals	Practical paer VIII A1	SEM - VI MPC,BMC,BIOTECH,B ZC(EM/TM)		Attain the knowledge to synthesize the organic compounds.
				CO1	
17	Cluster A2	Inorganic materils of indusrial importance	SEM VI	CO1	Accquire knowledge of manufacture of steel and cement in various commercial industries.
			SEM - VI MPC,BMC,BIOTECH,B ZC(EM/TM)	CO2	Attain knowledge on manufacture of various types of glass which are used in the daily life.
				CO3	Understand how to use different notrogen, Phosphorous and potash fertilizers in agriculture.
				CO4	Know the basic composition of surface coatings like paints, enemels, pigments, dyes and metallic coatings.
18	Cluster - A2 P	Practical paer VIII A2	SEM - VI MPC,BMC,BIOTECH,B ZC(EM/TM)		Attain to knowledge synthesize the organic compounds and analyse the extra elements in organic compounds.
				CO1	
19	Cluster A3	Analysis of applied industrialpro ducts	SEM - VI	CO1	Develop the knowledge on the analysis of soaps, pains cement and glass.
			MPC,BMC,BIOTECH,B ZC(EM/TM)	CO2	Compare and understand the analysis of different oils and industrial solvents.
				CO3	acuire basic knowledge on fertilizers an polysaccharides
				CO4	To estimate the amount of gas present in fuels and stmosphere.

20	Cluster A3P	VIII A - 3 Practical: Project Work	SEM - VI MPC,BMC,BIOTECH,B ZC(EM/TM)		Accquire research knowledge on various chemistry projects.
				Co1	
				Course Outcome 2021-2022	
Sl.No.	Subject Code	Subject Name/ Title of the Paper	Code	Course Outcome	
1	1101	Paper –I: History and Culture of India. (from Earliest times to 7th Century AD)	CO1	Identify and define the India's Culture, sources, and influence of Geographi cal factors on Indian History.	
			CO2	Identify, describe, and compare/c	

1	1	ı	
			ontrast the
			first
			advanced
			civilizatio
			ns in the
			world—.
			Indus
			Civilizatio
			n
			Identify
			and
			describe
			the
			emergence
			of the
			earliest
			civilizatio
		CO3	ns in
			India: the
			Harappan
			and Aryan
			societies
			on the
			Indian
			subcontine
			nt
			Identify
			and
		CO4	describe
			the
			emergence
			of new

				philosophi
				es—
				Budhism
				and
				Jainism
				Explain
				and
				identify
			CO1	the rise
			COI	and fall of
				HarshaVar
				dhan
		Paper – II: History and Culture of India (from 7th Century to 1526 A.D.)	CO2	Analyze
				and describe
				the rise and fall of
2	2101			Chalukya,
2	2101			Chola
				Analyze
				and
				describe
			G02	the rise
			CO3	and fall of
				Ghazani,a
				nd Ghori
				Mahmmed
				Identify
			CO4	and
				describe
				the

	I	I	
			emergence
			of the
			Delhi
			sultanate,
			the Slave
			dynasty,
			Khilji's,Tu
			ghlaq,Say
			yads and
			Lodi
			dynasty.
			Identify
		CO1	and
			describe
			the rise
			and fall of
			Mughal
			dynasty
			Analyze
	Paper – III:		the She
			shah's
3101	Culture of India (1526 to 1857 A.D.)	CO2	administra
			tion, and
			Mughal
			Art and
			Architectu
			re
			Explain
			and
		CO3	identify
			the rise
			and fall of
	3101	India (1526	Paper – III: History and Culture of India (1526 CO2

1	l	I	l	M 41 2
				Maratha's
				including
				Sivaji''s
				administra
				tion,
				Evaluate
				consolidati
			CO4	on of
			C04	English
				Power in
				India.
				Analyse
			CO1	the British
				rule in
				India and
				its impact
			CO2	Analyse
		Paper – IV: History and Culture of India (1857 to 1950 A.D.)		social
				religious
				conscious
				ness in
4	4101			India
-	7101			Acquiring
				knowledge
		10 1750 A.D.)		about
				National
				Movement
			CO3	
				- Sipoy
				mutiny,
				The revolt
				also
				generated

			CO4	multiple meanings among the peoples of different nations which will be dealt along with the historiogra phy of the revolt Compariso n of Nationalist movement s- Moderates , Extremists , Militant groups, and - Gandhi an
		Paper –V:		Era. The
5	5101	Age of Rationalism and Humanism	CO1	students can obtain the knowledge
		(The World		of growth

1	between 15th	I	feudalism,
	& 18th		&
	Centuries)		Compariso n of
			Nationalist
			movement
			s in
			Germany
			and Italy
			Geographi
			cal
			influences,
		CO2	Nation
			States and
			Mercantili
			sm
			Identify
			the
			importanc
		CO3	e of
		(03	Industrial
			Revolutio
			n in
			human life
			Identify
			and
			Analyse
			the causes
		CO4	and results
			of two
			world
			wars

				&Acquirin g knowledge about United Nations Organizati ons
		Paper - VI:	CO1	The course aims at providing comprehe nsive understand ing of the Andhra history.
6	6101	History and Culture of Andhra Pradesh (14th Century to 1857)	CO2	It covers the introductio n of land and administra tive policies under the British rule in Andhra. It will trace the emergence

			CO3	of political ideas in Andhra. It focuses on freedom movement in India as well as Andhra.
			CO4	And also placed on analysis and explanatio n on formation of Andhra State Andhra Pradesh
8	7101	Paper - VII: History of Modern World(1871- 1945)	CO1	The students can obtain the knowledge of growth feudalism, & Compariso n of

1 1	1	1	
			Nationalist
			movement
			s in
			Germany
			and Italy
			Geographi
			cal
			influences,
		CO2	Nation
			States and
			Mercantili
			sm
			Identify
		CO3	the
			importanc e of
			Industrial
			n in
			human life
			Analyse
			and results
		CO4	of two
		CO4	world
			wars
			knowledge
			about
		CO4	Revolutio n in human life Identify and Analyse the causes and results of two world wars &Acquirin g knowledge about

9	8101 (C1)	Paper - VIII: (C 1) Popular Movements in Andhra Desha (1848 TO 1956 A.D.)	CO2	United Nations Organizati ons To enlighten the students on Renaissan ce in Andhra Desha To enlighten the students on Renaissan ce in Andhra Desha To enlighten the students on the role of Andhra people in National Movement
			CO3	It focuses on the formation of Andhra state-1953
			CO4	To enable the students on the

				political changes and formation of Andhra pradesh- 1956	
10	8101 (C2)	Paper - VIII: (C 2) Cultural Tourism in Andhra Pradesh	CO1	To enable the students with the geographi cal area, history, geology, antiquity and socio economica l and political conditions of region.	
		Traucsii	CO2	To create knowledge among the student communit y on how the pilgrim and tourism centers are	

				acting as the Centers for Cultural culminatio n of different cultures.
			CO3	To motivate the students towards innovative jobs like Guides etc.
			CO4	To enrich students Communi cation skill this is essentially required in the Globalizat ion period.
11	8101 (C3)	Paper - VIII: (C3) Contemporar	CO1	The course aims to provide comprehe

	y History of		nsive
	Andhra		History of
	Pradesh		the
	(1956-2014)		Andhra
	,		Pradesh
			To enable
			the
			students
			the
			projects,
		CO2	irrigation
		332	and
			agriculture
			area of
			Andhra
			Pradesh
			To bring
			out
			awareness
		CO3	on the
			current
			developme
			nt and
			changes in
			Andhra
			Pradesh
			To analyze
		CO4	the
			difficulties
			of the
			bifurcation
			OTHER PROPERTY.

				of Andhra Pradesh	
				DEDAE	
					RTMENT OF ECONOMICS SE OUTCOMES 2021-22
S.N.	Year	Course Code	Name of the Course	Course outcome code	Course outcome
1	2021-22	ECOA1102	Micro economic analysis	CO1	To gain knowledge on how households and business firms interact in various markets to tetermine price and qualntity of a good produced
				CO2	To understand the various types of markets and its functioning
				CO3	To understand the concept of production function
				CO4	To understand the Marginal productivity theory of distribution
2	2021-22	ECOA2102	Macro economic analysis	CO1	To analyse the difference between micro and macro economics and the concepts of National Income
				CO2	To understand the employment theories and how the theories applicable to developing countries
				CO3	To identify the various types of banks and its functions, how the banks create credit and what is the rate of interest
				CO4	To analyse the different stages of trade cycles and inflation, causes and inflation effect on the economy.
3	2021-22	ECO3102	National income, employment and money	CO1	To unduerstand the concepts of national income and the national income estimation methods
				CO2	To understand the classical theory of employment and JB Say Market law
				CO3	To illustrate the various concepts of employment, investment function, multiplier and accelerator
				CO4	To know the meaning and value of Money, classificatin of Money and the theories of Money.

4	2021-22	ECO4102	Banking and		To know about the trade cycles and its phases, meaning of inflation
	2021 22	2001102	International trade	CO1	and its types and causes and effect on the economy.
					To create awareness about the various banks and its functions and
				CO2	how the banks create money.
					To get the knowledge of share market and its profits, to know about
				CO3	the value and importance of Insurance.
					To learn the Macro economic policies, importance of international
				CO4	trade and Balance of Trade and Balance of Payments
5	2021-22	ECO5103	Contemporary Indian		To know the demographic featutes of India, to analyse the trends in
3	2021-22	EC03103	economy	CO1	National Income
					To get the knowledge of tax structrucure and reforms in tax, public
				CO2	debt its burden on economy, Globalization and its impact
					To understand the poverty and employment causes and eradication
				CO3	measures, objectives and achivements of planning in India.
					To know the importance of Agriculture and Industries and the
				CO4	cropping pattern and industrial products and credit
(2021 22	ECO5104	ECO5104 Quantitative Techniques		To learn the importance of Statistics and collection of data,
6	2021-22	EC05104		CO1	questionnaire, graphic presentation of data.
					To know the importance of Average and different types and
				CO2	properties of averages
					To understand the correlation and Regression analysis and the
				CO3	comparision between correlation and regression
				CO4	To know the value of Matrix and types of Matrices
7	2021-22	ECO6103	Entrepreneurship and small business development	CO1	To know the meaning of entrepreneurship, what are the characteristics and barriers to entrepreneurship.
			•		To know about the startup companies and the opportunities, to
					analyse the small scacle industies and its problems and registration
				CO2	process
					To know the role of support institutions and management of small
				CO3	business.

					To learn the preparation of project report and assessment of project
				CO4	feasinility.
8	2021-22	ECO6104A1	Industrial economics		To understand the industry and economic development, industrial
8	2021-22	ECO0104A1	industrial economics	CO1	classification.
					To analyse the public, private and joint sectors, the role of Multi
				CO2	national companies.
				CO3	To know about the industrial productivity and industrial sickness.
					To illustrate the industrial growth and pattern, indurstrial policy, to
				CO4	know the concept of globalization, privatisation and Disinvestment.
0	2021 22	ECO6104A2	Labouraconomica		To understand the labour problems and labour is a unique factor of
9	2021-22	ECO6104A2	Labour economics	CO1	production.
					To discribe the concept of labour market and its features, wage
				CO2	policy, minimum wage, collecting bargaining
					To know the concept of labour productivity and the causes of low
				CO3	productivity and measures to improve the productivity
					To understand the need and importance of State interventiion in
				CO4	labour matters, what are the labour welfare measures.
10	2021-22	ECO6104A	Indusstrial Management		To learn the functions of Management, Planning, organizing, levels
10	2021-22	ECO0104A	mdusstriai Management	CO1	of Management and the managirial skills.
					To know the forms of organization, partneship, and the concept and
				CO2	the characteristics of strategic management
				CO3	To understand the quality of Management, ISO 9001:2000
				CO4	To analyse the Project management, Cost benifit analysis.
		•		DEPART	MENT OF BIOCHEMISTRY
				COURS	SE OUTCOMES 2021-22
				course	
S NO	YEAR	Course code	Name of the course	outcome	Course outcomes
				code	
1	2021-22	S1309	Biomolecules	CO1	Understand the significance of Biomolecules

				CO2	Understand the chemistry and properties of water
					Describe the structures, classification, composition and significance
				CO3	of carbohydrates,amino acids,lipids
				CO4	Describe the functions and structure of biomembranes
2	2021-22	S2309	Analytical Techniques	CO1	Describe the various analytical techniques and their applications
					The students will understand the isolation ,purification and chemical
				CO2	characterization of compounds from plants and microbes
					Gain knowledge of uses of techniques in food industries, pharma
				CO3	industries ,clinical and microbiological lans
					Understand the applications and working principles of spectroscopic
				CO4	methods
			Enzymology,Bioenergeti		
3	2021-22	S3309	cs and Intermediary		understand the basics of enzymes and Bioenergetics
			metabolism	CO1	
				CO2	define the concepts of enthalpy,entropy and high energy compounds
				CO3	Describe the mechanism of enzyme action and factors affecting it
					explain metabolic pathways of carbohydrates metabolism,aminoacid
				CO4	,lipid,protein ,Nucleic acid metabolism
			Physiology, Nutritional		
4	2021-22	S-IV-4309	and Clinical		describes the process of digestion, absorption, transport of gases
			Biochemistry	CO1	
				CO2	explain signal transduction process of hormone mechanism
					describe the cells and organs of immune system, Types of
				CO3	immunoglobulins
					analyse the different clinical aspects of liver, heart and kidney
				CO4	diseases
			Microbiology,Immunolo		Identify the commercial applications of enzymes, transgenic
5	2021-22	S-V-4309	gy and Molecular		plants, immobilisation of enymes
			biology	CO1	
					Ability to understand downstream processing of enzymes, alochol
				CO2	production, solvent extraction

					understand the process of replication, transcription, translation and
				CO3	gene expression
				CO4	describe the technique s of r DNA technology, cloning strategies
6	2021-22	BIOC5317	Physiology, clinical biochemistry and Immunology	CO1	describes the process of digestion, absorption, transport of gases
				CO2	explain signal transduction process of hormone mechanism
				CO3	describe the cells and organs of immune system, Types of immunoglobulins
				CO4	analyse the different clinical aspects of liver, heart and kidney diseases
7	2021-22	BIOC5318	Basic Microbiology	CO1	Differentiate between gram positive and gram negative bacteria
				CO2	understand the structures of HIV,Polio,TMV ,mode of replication and infection
				CO3	explain the character istic features of algae and fungi
				CO4	understand the mode of reproduction and economic importance of Algae and fungi
8	2021-22	BIOC6317	Microbiology and Molecular biology	CO1	Identify the commercial applications of enzymes, transgenic plants, immobilisation of enymes
				CO2	Ability to understand downstream processing of enzymes, alochol production, solvent extraction
				CO3	understand the process of replication, transcription, translation and gene expression
				CO4	describe the technique s of r DNA technology, cloning strategies
9	2021-22	BIOC6318A	Nutritional Biochemistry	CO1	Understand the chemistry of carbohydrates, lipids and proteins
				CO2	define the RDA values for infants, children, lactating women, pregnant women, growing children
				CO3	Identify the role of water and fat soluble vitamins and deficiency disorders
				CO4	describe the role and requirements of mineral nutrition

10	2021-22	BIOC6318A	Clinical Biochemistry	CO1	understand the uses of Biochemical tests, sample analysis, reference values in clinical diagnosis of diseases
					explain the definitions of quality control and automation in clinical
				CO2	laboratory
					understand the importance of plasma enzymes in diagnosis of
				CO3	liver,hert and kidney disorders
					gain knowledge of different organ function test like Gastric function
				CO4	tests, liver function tests, pancreatic function tests
11	2021-22	BIOC6318A	Medical Microbiology		Analyse the different modes of bacterial infections, microbial and
11	2021-22	3	Wedical Wicholology	CO1	human interaction via skin, mouth, upper respiratory tract eye etc
				CO2	define endotoxins,enterotoxins,neurotoxins exotoxins
					understand person to person microbial diseases like air
				CO3	borne, waterborne and sexually transmitted disease
					explain rabies, malaria, tetanus and cholera diseases, mode of
				CO4	transmission, life cycle of malarial pathogen