## JMJ COLLEGE FOR WOMEN(A), TENALI. Course Outcomes 2022-23

The College offers undergraduate programs inscience,Commerce and Humanities. The different programmes offered are

1. BA -Spl.Tel, Spl.Eng &Spl.Eco.

2. B.Com (Gen) &B.Com(Comp)

3. B.Sc – MPC , CBZ , H.Sc , MPCs & MSCs

The college has clearly stated learning outcomes of the Programs and Courses. The Program Outcomes of courses have aims to beachieved. Some of the Programme Outcomes of courses collectively are as follow:

• The approach is envisioned to provide a focused, outcome-based syllabus at the

Undergraduate level with an agenda to structure the teaching-learning experiences in a more student-centric manner.

• These wide range of undergraduate courses are designed to satisfy individual objectives and interests.

- The Under-Graduate Programmes will prepare the students for both, academics as well as employment.
- Each programme vividly elaborates its nature and promises the outcomes that are to

be accomplished by studying the courses. The programmes also state the attributes that it offers to inculcate at the graduation level.

• The graduate attributes encompass values related to well-being, emotional stability, critical thinking, social justice and also skills for employability. Our students became eligible for all competitive exams like SSC, , Insurance sector, Bank PO's, Media, MNC, NGO, and to prepare them for start-ups. In short, each programme prepares students for sustainability and life-long learning.

• Through these Programmes students developed soft skills, their vocabulary improves

and they also realised the importance and beauty of languages.

## **Display on Website:**

The POs/PSOs/CO's for all Degree courses aremade available at the following location on institution's website.

• Website: jmjcollege.ac.in

## Communication to the teachers:

- POs/PSOs and COs are developed in each programme of courses involving all the faculty of the programand are reviewed in the BOS meeting after thorough discussion.
- After approval from the respective BOS, these are approved by the Academic council of the Institution and are communicated back to faculty.
- Communication to the Students:

**First year Induction Programme**: Respective COs are presented at the beginning of each course allthrough the programme and explained to the students.

**Question papers of Continuous Assessment:** The questions of continuous assessment exams are setreflecting the COs of the particular course along with cognitive levels of learning.

Course learning outcomes are specific to a course of study within a given programme ofstudy. It describe what learners should know, be able to do and value as a result of

integrating knowledge, skills and attitudes learned throughout the course. According to thepreferences of individual students the elective courses offered by one student may bedifferent from the elective courses offered by another student of the same programme. Theachievement by students of course level learning outcomes leads to the attainment of theprogramme learning outcomes

SEMESTER	COURSE	COURSE NAME	COURS	E OUTCOMES
	CODE			
Ι	LSC3	Life Skill Course -		Understand the concept of Entrepreneurship, its
		Entrepreneurship	COI	applications and scope.
			CO2	Report for a start up and differentiate between
				financial, technical analysis and business

				feasibility
			CO3	Know various types of financial institutions that help
			CO4	the business at Central, State and Local Level         Understand Central and State Government         policies
				policies, Aware of various tax incentives, concessions
			CO5	Apply the knowledge for generating a broad idea
				for a starting an enterprise/start up
			CO6	Understand the content for preparing a Project
Ι	LSCI	Life Skill Course - Basic computer	COI	Demonstrate basic understanding of computer hardware and software.
		applications	CO2	Apply skills and concepts for basic use of a
				computer.
				Identify appropriate tool of MS office to prepare basic documents, charts, spreadsheets and presentations.
			CO3	Create personal, academic and business documents using MS office.
			CO4	Create spreadsheets, charts and presentations.
			CO5	Analyze data using charts and spread sheets.
I	SDCIA	Skill Development Course -Tourism	COI	Understand the basic tourism aspects
		Guidance	CO2	Comprehend the requirements, role and
				responsibilities of profession of a Tourist Guide
			CO3	Apply the knowledge acquired in managing different groups and guiding in a tour
			CO4	Explain basic values related to tourism and heritage
II	SDC22S	Skill Development		Identify various types of fruits and vegetables
п	5DC225	Course -Fruits And	COI	and explain their nutritive value.
		Vegetables	CO2	Understand the fragile nature of fruits and
		Preservation		vegetables and causes for their damage.
			CO3	Explain various methods of preservation for
			CO4	fresh fruits and vegetables.Get to know the value-added products made
				from fruits and vegetables.
II	SDC23S	Skill Development Course-	COI	Understand the pre-requisites for starting a Dairy farm
		DairyTechnology	CO2	Recognize different breeds of Cows & buffaloes           following safety precautions.
			CO3	Prepare and give recommended feed and water for livestock ,Maintain health of livestock along with productivity
			CO4	Vaccination of cattle, nutrients requirements Entrepreneurship i.e., Effectively market dairy products

CO5	Ensure safe and clean dairy farm and Standard safety measures to be taken in establishing am industry
CO6	Efficiently start and manage to establish or
	develop a Dairy Industry

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em and its application to rocket motion and the of impact parameter, scattering cross section. in fields.
rotational kinematic relations, the principle and of gyroscope and it applications and the nal motion of a freely rotating symmetric top.
and the general characteristics of central forces and ation of Kepler's laws to describe the motion of d satellite in circular orbit through the study of law ation.
Ind postulates of Special theory of relativity and its incess such as length contraction, time dilation, it mass and mass-energy equivalence.
phenomena of simple harmonic motionand the n between undamped, damped and forced as and the concepts of resonance and quality factor
ence to damped harmonic oscillator. t the formation of harmonics and overtones in a
string and acquire the knowledge on Ultrasonic
eir production and detection and their applications
xperiments on Rigidity modulus of certain
Surface tension of water, Coefficient of viscosity
I, Moment of inertia of some regular bodies by nethods and compare the experimental values with
rd values.
w to determine the acceleration due to gravity at a g Compound pendulum and Simple pendulum.
e difference between flat resonance and sharp
in case of volume resonator and sonometer hts respectively.
a laws of transverse vibrations in a stretched string
ometer and comment on the relation between
, length and tension of a stretched string under
d the phenomenon of interference of light and its in (i) Lloyd's single mirror due to division of
t and (ii) Thin films, Newton's rings and
n interferometer due to division of amplitude.
sh between Fresnel's diffraction and Fraunhoffer n and observe the diffraction patterns in the case of
and the diffraction grating.
the construction and working of zone plate and

				make the comparison of zone plate with convex long
			<u> </u>	make the comparison of zone plate with convex lens.
			CO4	Comprehend the basic principle of laser, the working of He-
				Ne laser and Ruby lasers and their applications in different
			005	fields.
			CO5	Explain about the different aberrations in lenses and discuss
				the methods of minimizing them.
			CO6	Understand the basic principles of fibre optic
				communication and explore the field of Holography and
				Nonlinear optics and their applications.
	Physics	Wave Optics	CO1	Gain hands-on experience of using various optical
	Practical			instruments like spectrometer, polarimeter and making finer
				measurements of wavelength of light using Newton Rings
				experiment, diffraction grating etc.
			CO2	Understand the principle of working of polarimeter and the
				measurement of specific rotatory power of sugar solution
			CO3	Know the techniques involved in measuring the resolving
				power of telescope and dispersive power of the material of
				the prism.
			CO4	Be familiar with the determination of refractive index of
				liquid by Boy's methodand the determination of thickness of
				a thin wire by wedge method
III	PHY193	Thermodynamics And	CO1	Identify the unique vocabulary associated with
		Optics		thermodynamics and Explain the basic concepts of
		1		thermodynamics like system, properties, equilibrium,
				pressure, specific volume, temperature, zeroth law of
				thermodynamics, temperature measurement and temperature
				scales.
			CO2	Distinguish between ideal gas and pure substance. Calculate
			001	thermodynamic properties using tables of thermodynamic
				properties .
			CO3	Understand the applications of diffraction and
			005	polarization, the applications of interference in design and
				working of interferometers.
			CO4	Gain knowledge on working of holography and their
			0.04	applications in various fields, Gain knowledge in optical fiber
				and their applications in communication.
				and their approacions in communication.
III	Practical	Thermodynamics And	CO1	To identify and formulate power production based on the
111	Tactical	-	COI	fundamentals laws of thermal Physics.
		Optics	CO2	
			CO2	To instill upon to envisage appropriate experiments related
				to heat.
			CO3	Analyze the intensity variation of light due to Polarization,
				interference and diffractionand Explain working principle of
				lasers.
117	DUX104	Thomas Jaman A. 1	<u>CO1</u>	Evenloin the concert of the median with the 1 Columbia
IV	PHY194	Thermodynamics And	CO1	Explain the concept of thermodynamic work. Calculate and
		Optics		compare work in case of a closed system executing different
			000	thermodynamic processes or different thermodynamic cycles
			CO2	Understand the properties of light like reflection, refraction,
				interference, diffraction etc
			CO3	Understand the applications of diffraction and
				polarization, the applications of interference in design and
				working of interferometers, the resolving power of different
				optical instruments.
			CO4	Understand the applications of the resolving power of
				different optical instruments.
IV	Practicals	Thermodynamics And	CO1	Perform some basic experiments in thermal Physics:
		Optics		determination of Stefan's constant, coefficient of thermal

			1	conductivity Spacific hast of a liquid diffusation mating in
				conductivity, Specific heat of a liquid, diffraction grating in normal incidence and minimum deviation methods.
V	PHY5A	Electricity,Magnetism and Electronics.	CO1	Understand the Gauss law and its application to obtain electric field in different cases and formulate the relationship between electric displacement vector, electric polarization, Susceptibility, Permittivity and Dielectric constant.
			CO2	Distinguish between the magnetic effect of electric current and electromagnetic induction and apply the related laws in appropriate circumstances.
			CO3	Understand Biot and Savart's law and Ampere's circuital law to describe and explain the generation of magnetic fields by electrical currents
			CO4	Develop an understanding on the unification of electric and magnetic fields and Maxwell's equations governing electromagnetic waves.
			CO5	Phenomenon of resonance in LCR AC-circuits, sharpness of resonance,Qfactor,Power factor and the comparative study of series and parallel resonant circuits.
			CO6	Describe the operation of p-n junction diodes, zener diodes, light emitting diodes and transistors , Understand the operation of basic logic gates and universal gates and their truth tables
	Practical	Electricity,Magnetism and Electronics	CO1	Observe the resonance condition in LCR series and parallel circuit .
			CO2	Learn how a sonometer can be used to determine the frequency of AC-supply.
			CO3	Observe the variation of magnetic field along the axis of a circular coil carrying current using Stewart and Gee's apparatus.
			CO4	Understand the operation of PN junction diode, Zener diode and a transistor and their V-I characteristics. Construct the basic logic gates, half adder and full adder and verify their truth tables. Further, the student will understand how NAND and NOR gates can be used as universal building blocks.
	РНҮ5В	Modern Physics	CO1	Develop an understanding on the concepts of Atomic and Modern Physics, basic elementary quantum mechanics and nuclear physics.
			CO2	Develop critical understanding of concept of Matter waves and Uncertainty principle.
			CO3	Get familiarized with the principles of quantum mechanics and the formulation of Schrodinger wave equation and its applications.
			CO4	Examine the basic properties of nuclei, characteristics of Nuclear forces, salient features of Nuclear models and different nuclear radiation detectors. practical applications
			CO5	Classify Elementary particles based on their mass, charge, spin, half life and interaction.
			CO6	Get familiarized with the nano materials, their unique properties and applications. Increase the awareness and appreciation of superconductors and their applications.
	Practical	Modern Physics	CO1	Measure charge of an electron and e/m value of an electron by Thomson method.
			CO2	Determine the Energy gap of a semiconductor using

				thermistor and junction diode.
VI	PHY6GE1	Renewable Energy	CO1	To Understand the Need, importance and scope of non
Sem				conventional and alternate energy resources.
			CO2	To provide importance of Wind Energy
			CO3	To understand the role of ocean energy in the Energy
				Generation.
			CO4	To get the utilization of Biogas plants and geothermal
				energy
	Practical	Renewable Energy	CO1	To understand the concept of energy Conservation.
			CO2	To understand role significance of solar energy.
	PHY6CE1	Solar, thermal and	CO1	Conceptual knowledge associated with solar power plants.
		photo voltaic aspects.	CO2	Capability to integrate various options regarding solar power
				projects.
			CO3	Understand the nature of the solar energy resource
			CO4	Appreciate the mechanisms and the technologies of solar
				energy conversion including passive and active solar
				heating, concentrated solar thermal power generation and
				photovoltaics.
	Practical	Solar, thermal and photo voltaic aspects.	CO1	Understand the solar energy conversion and its storage.
			CO2	Understand the system design for a solar thermal and photovoltaic array.
				photovoltale array.
	PHY6CE2	Wind,Hydro and Ocean energies.	CO1	Define the kinetic energy of a unit mass of flowing fluid along with its corresponding power content.
			CO2	Explain the nature of lift and drag forces and define the lift and drag coefficients.
			CO3	Apply the concepts of lift and drag, including use of velocity vectors, to analyze a wind turbine blade. Include propelling forces and bending forces, and compare and
				contrast their magnitudes along the length of the blade.
			CO4	Define rotor solidity and use this concept to explain the development of modern wind turbines in terms of number of blades.
	Practical	Wind,Hydro and	CO1	Illustrate a few examples of drag-force rotors.Calculate the
		Ocean energies.		power coefficient for a flat-plate and anemometer-type wind turbines, and plot their respective value as a function of tip speed.
			CO2	Sketch a generic wind turbine power output as a function of wind speed and describe the types of power output regulation that are normally applied.
	PHY6CE3	Energy Storage	CO1	Understand need of energy storage systems
		devices	CO2	Acquire knowledge pertaining to various ways to store
				energy.
			CO3	Understand the working of hydrogen storage and fuel cell
				systems though research.
	Practical	Energy Storage	CO1	Understand the the differences between primary and
		devices		secondary batteries.
			CO2	Understand the working principles of different fuel cells.
	PHY6C	Applications of	CO1	Identify various components present in Electricity&
		Electricity &		Electronics Laboratory.
		Electronics	CO2	2. Acquire a critical knowledge of each component and its
				utility

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				Demonstrate skills of constructing simple electronic circuits
				consisting of basic circuit elements.
				Understand the need & Functionality of various DC & AC
				Power sources.
	Practical	Applications of	CO1	List out, identify and handle various equipment in Electrical
		Electricity &		& Electronics laboratory.
		Electronics	CO2	. Learn the procedures of designing simple electrical circuits
				. Demonstrate skills on the utility of different electrical
				components and devices.
	PHY7C	Electronic	CO1	Identify various facilities required to set up a basic
		Instrumentation		Instrumentation Laboratory.
			CO2	Acquire a critical knowledge of various Electrical
				Instruments used in the Laboratory.
				Demonstrate skills of using instruments like CRO, Function
				Generator, Multimeter etc. through hands on experience.
				Understand the Principle and operation of different display
				devices used in the display systems and different transducers
	Practical	Electronic	CO1	Learn the construction, operational principles of various
		Instrumentation		instruments.
			CO2	Perform some techniques related to Biomedical
				Instrumentation and measurement of Certain physiological
				parameters like body temperature, B.P. and sugar levels etc.
				Demonstrate skills on handling, Maintenance & trouble
				shooting of different instruments used in the Labs.
		PaperI:Differential	CO1	Solve linear differential equations
	MAT 201	Equations		
I Sem			CO2	Convert non exact homogeneous equations to exact
				differential equations by using integrating factors
			CO3	Know the methods of finding solutions of differential
				equations of the first order but not of the first degree.
			CO4	Solve higher-order linear differential equations, both
				homogeneous and non homogeneous, with constant
				coefficients.
			CO5	Understand the concept and apply appropriate methods for
				solving differential equations
			CO1	Get the knowledge of planes
II Sem	MAT 202	Mathematics, Paper	CO2	Basic idea of lines, sphere and cones.
		II:ThreeDimensional	CO3	Understand the properties of planes, lines, spheres and
		Analytical Solid		cones.
		Geometry	CO4	Express the problems geometrically and then to get the
				solution.
			CO5	Understand the applications of Solid Geometry in various
				fields
		Mathematics, Paper –	CO1	Acquire the basic knowledge and structure of groups,
		III:Abstract Algebra		subgroups and cyclic groups.
		C C	CO2	Get the significance of the notation of a normal subgroups
			CO3	Get the behavior of permutations and operations on them.
III Sem	MAT 193		CO4	Study the Homomorphisms and Isomorphisms in Groups
				with applications.
			CO5	Understand the applications of Group Theory in various
				fields
		Mathematics, Paper –	C01	Get clear idea about the real numbers and real valued
		IV:Real Analysis	001	functions
IV	MAT 194		CO2	Obtain the skills of analyzing the concepts and applying
SEM				appropriate methods
				for testing convergence of a sequence/ series.
			CO3	Test the continuity and differentiability and Riemann
		1	200	and containing and anterontiating and Riemann

				integration of a function
			CO4	Know the geometrical interpretation of mean value
			001	theorems.
		Mathematics, Paper –	CO1	Get clear idea about the real numbers and real valued
	MAT 5A	V:	001	functions
V SEM		Ring Theory and	CO2	Obtain the skills of analyzing the concepts and applying
		Vector Calculus	001	appropriate methods
				for testing convergence of a sequence/ series.
			CO3	Test the continuity and differentiability and Riemann
				integration of a function
			CO4	Know the geometrical interpretation of mean value
				theorems.
		Mathematics, Paper –	CO1	Get clear idea about the real numbers and real valued
		V:		functions
		Linear Algebra	CO2	Obtain the skills of analyzing the concepts and applying
	MAT 5B			appropriate methods
				for testing convergence of a sequence/ series.
			CO3	Test the continuity and differentiability and Riemann
				integration of a function
			CO4	Know the geometrical interpretation of mean value
				theorems.
		Mathematics, Paper –	CO1	Get clear idea about the real numbers and real valued
		VII:		functions
		Numerical Analysis	CO2	Obtain the skills of analyzing the concepts and applying
				appropriate methods
				for testing convergence of a sequence/ series.
VISE	MAT		CO3	Test the continuity and differentiability and Riemann
Μ	6GE1			integration of a function
			CO4	Know the geometrical interpretation of mean value
				theorems.
		Mathematics, Paper –	CO1	Get clear idea about the real numbers and real valued
	MAT	VIII (A):		functions
	$6CE_1$	A <sub>1</sub> : Integral	CO2	Obtain the skills of analyzing the concepts and applying
		Transforms		appropriate methods
				for testing convergence of a sequence/ series.
			CO3	Test the continuity and differentiability and Riemann
				integration of a function
			CO4	Know the geometrical interpretation of mean value
			<b>a</b> 6 1	theorems.
			CO1	Get clear idea about the real numbers and real valued
	MAT	Mathematics, Paper –		functions.
	$6CE_2$	VIII (B):A <sub>2</sub> :	CO2	Obtain the skills of analyzing the concepts and applying
		Advanced Numerical		appropriate methods
		Analysis	<u> </u>	for testing convergence of a sequence/ series.
			CO3	Test the continuity and differentiability and Riemann
			CO4	integration of a functionKnow the geometrical interpretation of mean value
			04	theorems.
			CO1	While working on their final year projects, students get a
	MAT	Mathematics, Paper –		more in-depth insight into real-world functional processes.
	$6CE_3$	VIII ( C ):A <sub>3</sub> : Project	CO2	Developing plans with relevant areas to achieve the
		Work		project's goals.
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			CO3	Break work down into tasks and determine handover
				procedures.
			CO4	Students able to apply their theoretical knowledge to
				practical use.
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ISEM         M101         ALGEBRA         COI         Understand the concept of Groups. Normal groups and Quotients groups and permutation Groups.           ISEM         M102         RelAL ANALYSIS-1         COI         Londerstand the concept of Groups. Normal groups and Quotient rings. Field of Quotients of an integral domain.           ISEM         M102         REAL ANALYSIS-1         COI         Understand the concepts of limit and continuity of Interious and discuss types of Discontinuities.           ISEM         M102         REAL ANALYSIS-1         COI         Understand the concepts of limit and continuity of Interious and discuss types of Discontinuities.           ISEM         M102         REAL ANALYSIS-1         COI         Understand the concepts of limit and continuity of Interious and discuss types of Discontinuities.           ISEM         M103         DIFFERENTIAL EQUATIONS         COI         Determine the Riemann-Stielijo-integrability of a bonded function and prove a stechtion of theorems concerning integration.           ISEM         M103         DIFFERENTIAL EQUATIONS         COI         Othain the solutions of second order homogeneous and homogeneous inaid differential equations with variable coefficients and understand the understand the function and homogeneous and anothonola existence independence and independence of solutions.           ISEM         M104         Toplogy         COI         Understand the concepts of nertic spaces, open aset. contanous functions and provis local and honola exisione inde				CO5	Students can demonstrate their practical competence.
Image: Second	ISEM	M101	AI GEBRA		
Image: Second system is a second system is second system	TOLINI	101101			
Image: Second				$CO^2$	
ISEM         M102         REAL ANALYSIS-1         COI 1         Decrementation of Rings, Ideals of Rings, and Mergan I domain           ISEM         M102         REAL ANALYSIS-1         COI 1         Understand the concepts of Timit and continuity of functions and discuss types of Discontinuity of nucleons and discuss types of Discontinuity of a continuity of a continuity of functions and discuss types of Discontinuity of a continuity of a context of the con					
Image: Second				CO3	
Image: Second					
ISEM         M102         REAL ANALYSIS-1         COI         Understand the concepts of limit and continuity of functions and discuss types of Discontinuities.           ISEM         M102         REAL ANALYSIS-1         COI         Cold incroduced to the study of another equally important concept namely differentiation that is essential in the study of velocity and acceleration of continuous paths.           CO2         Get introduced to the study of another equally important concept namely differentiation that is essential in the study of velocity and acceleration of continuous paths.           CO3         Determine the Riemann-Stieljesintegrability of a bonded function and prove a selection of theorems concerning integration.           CO4         Recognize the difference between point wise and uniform convergence of sequences of functions and illustrate the effect of uniform convergence on the limit function with respect to containity, differentiability, and integrability           ISEM         M103         DIFFERENTIAL EQUATIONS         COI         Obtime solutions of second order homogeneous and nonhomogeneous and nonhomogeneous and independence of solutions.           CO2         learn how to solve homogeneous and independence of solutions.         CO3         Understand the concepts of metric spaces, open sets, closed sets and continuous functions on metric spaces.           CO3         Understand the hasic concepts of metric spaces, open sets, closed sets and continuous functions on metric spaces.           TsEM         M104         Toplogy         CO1         Understand t				CO4	
TSEM       M102       REAL ANALYSIS-1       CO1       Understand the concepts of limit and continuity of functions and discuss types of Discontinuities.         CO2       Get introduced to the study of another equally important concept namely differentiation that is essential in the study of velocity and acceleration of continuous paths.       CO3       Determine the Riemann-Stieligesintegrability of a bonded function and prove a selection of theorems concerning integration.         CO4       Recognize the difference between point wise and uniform convergence of functions and illustrate the effect of uniform convergence of the limit function with respect to continuity, differentiability, and integrability         ISEM       M103       DIFFERENTIAL EQUATIONS       CO1       Obtain the solutions of second order homogeneous and nonhomogeneous differential equations with variable coefficients and homogeneous ind nonhomogeneous differential equations with variable coefficients.         CO2       learn how to solve homogeneous and nonhomogeneous differential equations with variable coefficients.         CO3       Understand the concepts of successive approximations, The Lipschitz condition and prove local and Nonlocal existence theorems.         CO4       Understand the basic encepts of successive approximations, and apprediate the encept of topology and prove a selection of the ensure of deependence and independence of a spaces, continuous and product topological spaces, continuous and product topological spaces, continuous and prove topological spaces, continuous and apprediate the encept of spaces and prove a selection of the ensure of deependence and ilustrate the concept of the separation axioms					
Image: Second	I SEM	M102	REAL ANALYSIS-I	CO1	
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Image: Second				CO2	Get introduced to the study of another equally important
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MI03         DIFFERENTIAL         CO4         Recognize the difference between point wise and uniform convergence of sequences of functions and illustrate the effect of uniform convergence on the limit function with respect to continuity, differentiability, and integrability           I SEM         MI03         DIFFERENTIAL         CO1         Obtain the solutions of second order homogeneous and nonhomogeneous linear differential equations with constant coefficients and understand the utility of Wronskian, linear independence and independence of solutions.           CO2         learn how to solve homogeneous and nonhomogeneous differential equations with variable coefficients and homogenious equation with analytic co-efficients.           CO3         learn how to solve homogeneous and nonhomogeneous differential equations with variable coefficients.           CO4         Understand the concepts regular singular points and solve the Euler equation and the Bassel equation.           CO4         Understand the concepts of successive approximations. The Lipschitz condition and prove local and Nonlocal existence theorems.           TSEM         M104         Toplogy         CO1         Understand the basic concepts of metric spaces, open sets, closed sets and continuous functions and prove local and Nonlocal existence theorems.           TSEM         M104         Toplogy         CO1         Understand the basic concepts of metric spaces. (CO2           CO4         Enfer and illustrate the concept of pological spaces, continuous functions and prove local and Nonlocal existence theorem.         CO1				CO3	
N103         DIPPERENTIAL EQUATIONS         CO4         Recognize the difference between point wise and uniform convergence of sequences of functions and illustrate the effect of uniform convergence on the limit function with respect to continuity, differentiability, and integrability           TSEM         M103         DIPPERENTIAL EQUATIONS         CO1         Obtain the solutions of second order homogeneous and nonhomogeneous linear differential equations with constant coefficients and understand the utility of Wronskian, linear independence and independence of solutions.           CO2         learn how to solve homogeneous and nonhomogeneous differential equations with variable coefficients and homogenious equation with analytic coefficients.           CO3         Understand the concepts regular singular points and solve the Euler equation and the Bessel equation.           CO4         Understand the concepts of successive approximations, The Lipschitz condition and prove local and Nonlocal existence theorems.           TSEM         M104         Toplogy         CO1         Understand the basic concepts of metric spaces, continuous functions on metric spaces.           CO2         Define and illustrate the concepts of the separation axioms and appreciate the beauty of deep mathematical results like Urysohn's lemma, Urysohn imbedding theorem and understand the dynamics of the proof techniques.           M105         Advanced Discrete Mathematics         CO1         Formulat statements from common language to formal logic, apply truth tables and the rules of propositional and predicate cackulus.         CO2         Understand the co					function and prove a selection of theorems concerning
MI03         DIFFERENTIAL EQUATIONS         CO1         Obtain the solutions of second order homogeneous and nonhomogeneous linear differentiability, and integrability           I SEM         M103         DIFFERENTIAL EQUATIONS         CO1         Obtain the solutions of second order homogeneous and nonhomogeneous linear differential equations with constant coefficients and understand the utility of Wronskian, linear independence and independence of solutions.           C02         learn how to solve homogeneous and nonhomogeneous differential equations with variable coefficients and homogenious equation with analytic coefficients.           C03         Understand the concepts regular singular points and solve the Euler equation and the Bessel equation.           C04         Understand the concepts of metric spaces, open sets, closed sets and continuous functions on metric spaces, continuous functions and prove local and Nonlocal existence theorems.           Toplogy         CO1         CO1         Understand the basic concepts of metric spaces, continuous functions and product topologies, CO2         Define and illustrate the concept of topology and prove a selection of theorems concerning Topological spaces, continuous functions and product topologies.           C03         Advanced Discrete Mathematics         CO1         Co1         Define and illustrate the concepts of a space           C04         Iderstand the dynamics of the proof techniques. CO3         Characterize compact spaces using the Heine-Borel theorem.           I SEM         M105         Advanced Discrete Mathematics					integration.
MI03         DIFFERENTIAL EQUATIONS         CO1         Obtain the solutions of second order homogeneous and nonhomogeneous linear differential equations with constant coefficients and understand the utility of Wronskian, linear independence and independence of solutions.           C02         learn how to solve homogeneous and nonhomogeneous independence and independence of solutions.           C03         Understand the utility of Wronskian, linear independence and independence of solutions.           C04         Understand the concepts regular signal points and solve the Euler equation with analytic co-efficients.           C04         Understand the concepts of successive approximations, The Lipschitz condition and prove local and Nonlocal existence theorems.           1 SEM         M104         Toplogy         C01         Understand the basic concepts of metric spaces, ontinuous functions and prove local and Nonlocal existence theorems.           1 SEM         M104         Toplogy         C02         Define and illustrate the concept of topology and prove a selection of theorems concerning Topological spaces, continuous functions and product topologies.           C03         Characterize compact spaces using the Heine-Borel theorem.           TSEM         M105         Advanced Discrete Mathematics         C01         Understand the oncept of topology and prove a selection of theorems concerning Topological spaces, continuous functions and product topologies.           C03         Characterize compact spaces using the Heine-Borel theorem.         C04				CO4	Recognize the difference between point wise and uniform
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EQUATIONS         nonhomogeneous linear differential equations with constant coefficients and understand the utility of Wronskian, linear independence and independence of solutions.           CO2         learn how to solve homogeneous and nonhomogeneous differential equations with variable coefficients and homogenious equation with variable coefficients.           CO3         Understand the concepts regular singular points and solve the Euler equation and the Bessel equation.           CO4         Understand the concepts regular singular points and solve the Euler equation and the Bessel equation.           TSEM         M104           Toplogy         CO1         Understand the basic concepts of metric spaces, open sets, closed sets and continuous functions on metric spaces.           CO2         Define and illustrate the concept of toplogical spaces, continuous functions and product topologies.         CO3           CO3         Characterize compact spaces using the Heinee-Borel theorem.         Define and illustrate the concepts of the separation axioms and appreciate the beauty of deep mathematical results like Urysohn's lemma, Urysohn imbedding theorem and understand the dynamics of the proof techniques.           ISEM         M105         Advanced Discreter Mathematics         CO1         Formulat statements from common language to formal logic, apply trut tables and the rules of propositional and predicate calculus.           CO3         Defarstand the concept of finite machines and study their applications like minimization, and realization.           CO3         be familiar wit					
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CO4Understand the concept of Boolean polynomials, ideals, filters and calculate the minimal forms of Boolean					<b>-</b>
filters and calculate the minimal forms of Boolean				CO4	
polynomials. Demonstrate switching circuits and					
					polynomials. Demonstrate switching circuits and
applications of switching circuits.					
M201 Galois Theory Derive and apply Gauss Lemma, and Eisenstein criterion for		M201	Galois Theory		Derive and apply Gauss Lemma, and Eisenstein criterion for

			CO1	irreducibility of Polynomials
			CO2	Demonstrate Field extensions and characterization of finite
II SEM			002	normal extensions as splitting fields and study prime fields.
II OLIVI			CO3	Learn Fundamental theorem of Galois theory, fundamental
			005	theorem of Algebra and related results, appreciate genius in
				proving strong important theorems at early age.
			CO4	Understand cyclotomis polynomials, cyclic extensions,
			C04	
				Radical field extensions and Ruler & Compass
				constructions. Know the important applications of Galois
				Theory.
	M202	Real Analysis -II	CO1	Study the Stone – Weierstrass theorem and its applications.
	IVI202	Keal Allalysis -11	COI	Understand the properties of power series. Exponential,
				Trigonometric and Logarithmic functions.
			CO2	Compute derivatives and integrals of real valued and vector
II SEM			02	valued functions of several variables.
II SEIVI			CO3	Understand and apply the inverse function theorem, implicit
			COS	
				function theorem, derivatives of higher order and
			<u> </u>	differentiation of integrals.
	M202	Maagerra A. J	CO4	Understand the concept of integration of differential forms.
	M203	Measure And		Understand the concept of measure and properties of
		Integration	CO1	Lebesgue measure.
			CO2	Study the properties of Lebesgue integral and compare it
				with Riemann integral.
HCEM			602	To establish the derivative of the indefinite integral of an
II SEM			CO3	integrable function is equal to the integral a.e. To establish
				the equivalent condition an indefinite integral is absolutely
				continuous. Jenson inequality becomes a generalization of
				the inequality between the arithmetic and geometric mean
			GO (	To establishes several inequalities involving the $  .  $ p in the
			CO4	Lp spaces. To find a representation for bounded linear
	M204			functions.
	M204	Computer Oriented	CO1	Use different data types in a Computer program and Design
		Numerical Methods	COI	programs involving Decision structures, Loops and Functions.
			CO2	
			CO2	Apply various Mathematical operations and tasks, such as
				Interpolation of Polynomials.
II SEM			CO2	Ability to solve the Problems based on Numerical
			CO3	Integration.
				find Numerical solution of ordinary differential equations
	M205	Croph Theory	CO4	such as Runga-Kutta methods
	M205	Graph Theory	CO1	Understand the basic concepts of Graphs and Euler and Hamiltonian graphs and obtain a solution for Travelling
				Hamiltonian graphs and obtain a solution for Travelling
			000	salesman problems
			CO2	Study the properties of trees and able to find a minimal
II SEM			<u> </u>	spanning tree for a given weighted graph.
II SEM			CO3	Understand the purpose of introduction of concepts like cut-
				set, cut-vertex, Connectivity and separability.
				Understand the utility planar, dual graphs and vector spaces
	M201		CO4	of a graph.
III	M301	Rings And Modules	CO1	Understand the concepts of commutative ring theory and
SEM				special structures like Boolean algebras and Boolean rings.
				Know the relations between ring, Boolean algebra and
			<u> </u>	lattice.
			CO2	Classical isomorphism theorems and some properties of direct sum product of rings and modules
			CO3	direct sum, product of rings and modules.
				Understand the concept of Prime ideals, maximal ideals of commutative rings, Prime radical and Jacobson radical.
	1			commutative rings, r rine raulear and Jacobson raulear.

			CO4	Study the Wedderburn –Artin theorem and its applications
				and Prime ideal spaces.
			CO1	:Represent Complex numbers algebraically and
III	M302	COMPLEX		geometrically and understand Analytic functions, Cauchy-
SEM		ANALYSIS		Riemann equations and verify Complex functions for
				analycity.
			CO2	Evaluate Complex integrals by applying Cauchy integral
I				formula.
			CO3	Differentiate the Taylor's series and Laurent series.
I			CO4	Understand Residue theorem, the argument principle and
ı				Rouche's theorem, and Compute integrals using residues.
III	M303	Functional Analysis	CO1	Understand basic properties of finite dimensional normed
SEM				spaces.
			CO2	Analyse bounded linear functionals of finite dimensional
				normed spaces and apply them to linear and differential
				equations.
			CO3	Demonstrate the knowledge of continuous linear
				transformations and the Hahn-Banach theorem.
I			CO4	Describe uniform boundedness principle, open mapping
	2.600.4			theorem and closed graph theorem.
I	M304	Fuzzy Sets And Their	CO1	Understand the basic concepts of fuzzy sets, properties of $\alpha$ -
III		Applications	<u> </u>	cut sets and extension principle of fuzzy sets
III SEM			CO2	Describe fuzzy compliments, fuzzy intersections and fuzzy unions
SEIVI			<u> </u>	
			CO3 CO4	Understand the concept of fuzzy arithmetic.Determine the difference between crisp relations, fuzzy
			04	relations and understand the concepts of fuzzy compatibility
				relations and understand the concepts of fuzzy compatibility relations, fuzzy ordering relations and fuzzy morphisms.
	M305	Linear Programming	CO1	Formulate and solve a linear programming problem
	141305		CO1 CO2	Convert standard business problems into linear programming
			002	problems and can solve using simplex algorithm
III			CO3	Formulate and solve transportation problems
SEM			CO4	Formulate and solve the Assignment problem.
~-	M401	Non-Commutative	C04	Characterize primitive rings and completely reducible
		Rings	-	modules.
			CO2	Decide whether a given ring or module, or a class of rings or
l				modules, is Noetherianartinian/semisimple, by applying the
IV				characterizations discussed in the course.
SEM			CO3	Identify local rings, semi-perfect rings, Characterize
ĺ				Injective and Projective modules. Know the relations
ĺ				between different types of modules. endomorphisms of
				injective modules
ĺ			CO4	Understand the concepts of tensor products of modules,
				Hom and functors, exact sequences.
	M402	Partial Differential	CO1	Classify first order partial differential equations and their
IV		Equations		solutions and solve them using different methods
SEM			CO2	Classify second order partial differential equations and solve
				one dimensional wave equations using different analytic
				methods
ĺ			CO3	Solve Laplace equations using various analytical methods
				demonstrate uniqueness of solutions of certain kinds of these
				equations
			CO4	Compute solutions of heat equations using certain analytic
				methods and verify uniqueness of solutions of some types of
	34402		<u> </u>	these equations
	M403	Near Rings	CO1	Understand elementary and basic concepts of near-rings and its natural examples and homomorphisms and its ideal like
IV				its natural examples and homomorphisms and its ideal-like concepts.
1 V				concepts.

Image: Ward Section 2016         Numerical Methods         CO1         Concepts of prime ideal, nil ideal and nilpotent ideal of a near-ring.           IV         M404         Algebraic Coding         CO1         Understand the structure theory of near-rings and heir structures           IV         M404         Algebraic Coding         CO1         Understand the Effects of error correction and Detection and the concept of Maximum-Likelihood Decoding and Reliability of MLD.           SEM         Theory         CO2         Understand Generating Matrices and Encoding, Parity-Check Matrices, solving problems On linear codes.           CO3         Understand Cyclic codes.         CO3         Understand Cyclic codes.           IV         Selm         CO1         Understand Cyclic codes.         CO3           IV         Solve a linear programming problem son linear codes.         CO3         Solve a linear programming problems and game theory problems.           IV         Sem         CO1         Understand the subject of various numerical methods that are used to obtain approximate solutions           IV         MAT 6C         Numerical Methods         CO1         understand the subject of various numerical methods. II. Syllabus           VISEM         MAT 7C         Mathematical Special         CO2         GO3         Analyze and evaluate the accuracy of numerical methods. II. Syllabus           VISEM         MA	OFM			000	
Image: Product of the structure service of the structure theory of near-ring and apply it for a given near-ring.         Describe different types of primitive near-rings and due?           IV         M404         Algebraic Coding Theory         CO1         Understand the Efficus of error correction and Detection and the concept of Maximum-Likelihood Decoding and Reliability of MLD.           SEM         Theory         CO1         Understand the Efficus of error correction and Detection and the concept of Maximum-Likelihood Decoding and Reliability of MLD.           CO2         Understand Cenerating Matrices and Encoding. Parity-Check Matrices, solving problems On Inner codes.           VISEM         Operations Research         CO1         Solve the LPP using the two phase method.           CO2         Find the dual of an 1PP and solve the Problem.         CO2         Solve the LPP using the two phase method.           VISEM         MAT 6C         Numerical Methods         CO1         Solve integer programming problems and game theory problems.           VISEM         MAT 7C         Mathematical Special         CO1         Understand the subject of various numerical methods that are used to obtain approximate solutions.           VISEM         MAT 7C         Mathematical Special         CO1         Understand the Beta and Gamma functions. Inderstand the orthogonal properties of Hermite Polynomials and recurrence relations.           I         PO1/201         Political Science I- Introduction to Polynomia	SEM			CO2	Analyse ideal theory of near-rings and demonstrate the
Mathematical Special Science I- Introduction to Polarizal Science         Mathematical Special Special Science         Understand the structure theory of near-rings and apply it for a given near-ring Describe different types of primitive near-rings and their structures           W         M404         Algebraic Coding Theory         CO1         Understand the Effects of error correction and Detection and the concept of Maximum-Likelihood Decoding and Reliability of MLD.           VIDE         CO2         Understand Generating Matrices and Encoding, Parity- Check Matrices, solving problems On linear codes.           CO3         Understand Concenting Matrices and Source of information.           CO4         Understand Concenting Matrices and Source of information.           CO4         Understand Concenting Matrices and source of information.           CO3         Solve the ILPP using the two phase method.           CO3         Solve the ILPP and solve the Problem.           CO3         Solve the ILPP and solve the Problem.           CO4         Solve the ILPP and solve the Problem.           VISEM         MAT 6C           MAT 7C         Numerical Methods           Functions         CO1           Solve thermic equation and arrity functions. their propriets and reliation between these two functions, their propriets of Hermic Polynomials and recurrence relations.           I         POL201         Polirical Science I- Introduction to         CO1					
Number of the second					
M404         Algebraic Coding Theory         Describe different types of primitive near-rings and their structures           VI         M404         Algebraic Coding Theory         CO1         Understand the Effects of error correction and Detection and the concept of Maximum-Likelihood Decoding and Reliability of MLD.           SEM         M405         Operations Research         CO2         Understand Generating Matrices and Encoding, Parity- Check Matrices, solving problems On linear codes.           IV         M405         Operations Research         CO1         Solve the LPP using the two phase method.           IV         Sex         CO2         Find the dual of an LPP and solve the Problem.           IV         Seve integer programming problem using Revised Simplex Method         CO3         Solve a linear programming problem using Revised Simplex Method           VISEM         MAT 6C         Numerical Methods         CO3         Analyze and evaluate the accuracy of numerical methods II. Syltabus           MAT 7C         Mathematical Special Functions         CO3         Understand the subject of various numerical methods. II. Syltabus           I         PO1.201         Political Science I Introduction to Political Science         CO3         Solve a lensum functions, understand the orthogonal properties of Chebyshev polynomials and recurrence relations.           I         PO1.201         Political Science I Introduction to Political Science				~ ~ ~	
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Public RelationsCO2Explain various concepts of public relationCO3Discuss the concept and tools of Public RelationsCO4Formulate public relations strategiesCO5To evaluate the ethical aspects of PRIIPOL202Political Science II- Basic Organs of The GovernmentCO1To UnderstandOrigin and Evolution of ConstitutionCO2To Evaluate the B.D.Montesquieu's Theory of Separation of Powers			*		
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Basic Organs of The GovernmentCO2To Evaluate the B.D.Montesquieu's Theory of Separation of Powers	II		Dolitical Science II		1
Government Powers	11	FUL202			
			e		
10 Understandvarious forms of Governments- Unitary and				<u> </u>	
				005	10 Understandvarious forms of Governments- Unitary and

IISkill Development Course II- Social Work MethodsCO1Demonstrate Ethical and Professional Beha CO2Engage Diversity and Difference in Practice CO3CO3Assess the importance of Fieldwork in Soci Environmental JusticeCO4CO5Engage, assess, intervene, and evaluate with families, groups, organizations, and commute	cracy and Types Groups and vior e al Work.
IISkill Development Course II- Social Work MethodsCO1Demostrate Ethical and Professional Beha CO2CO3Assess the importance of Fieldwork in Soci Environmental JusticeCO4Advance Human Rights and Social, Econor Environmental Justice	Groups and vior e al Work.
IICO5Critically Evaluating the nature of Pressure Significance of Public OpinionIISkill Development Course II- Social Work MethodsCO1Demonstrate Ethical and Professional Beha CO2CO3Assess the importance of Fieldwork in Soci CO4CO3Assess the importance of Fieldwork in Soci Environmental JusticeCO5Engage, assess, intervene, and evaluate with	vior e al Work.
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II       Skill Development       CO1       Demonstrate Ethical and Professional Beha         Course II- Social       CO2       Engage Diversity and Difference in Practice         Work Methods       CO3       Assess the importance of Fieldwork in Soci         CO4       Advance Human Rights and Social, Econor         Environmental Justice       CO5       Engage, assess, intervene, and evaluate with	e al Work.
Course II- Social Work MethodsCO2Engage Diversity and Difference in Practice CO3CO3Assess the importance of Fieldwork in Soci CO4CO4Advance Human Rights and Social, Econor Environmental JusticeCO5Engage, assess, intervene, and evaluate with	e al Work.
Work Methods       CO3       Assess the importance of Fieldwork in Soci         CO4       Advance Human Rights and Social, Econor         Environmental Justice         CO5       Engage, assess, intervene, and evaluate with	al Work.
CO4       Advance Human Rights and Social, Econor         Environmental Justice         CO5       Engage, assess, intervene, and evaluate with	
Environmental JusticeCO5Engage, assess, intervene, and evaluate with	
families, groups, organizations, and commu	n individuals,
III         POL193         Political Science III-         CO1         To understand the philosophy of Indian con	
Indian Constitution CO2 To know the salient features of Indian const	
CO3 To Examine the Fundamental Rights and D	uties of Indian
citizens with a study of the	
significance and status of Directive Princip	
CO4 Critically analyzing the important institution	ns of the Indian
Union and State Union :	
CO5 Examining The Judiciary system in India: S and the High 4Court: composition and func	
Activism.	110118- Juurciai
IV     POL194     Political Science IV-     CO1     Evaluating the Electoral Process in India within the sector of th	ith focus on the
Indian Political Election Commission:	th focus on the
Process Composition, Functions and Role	
CO2 Critically evaluating the Indian Party system	n – its
development and looking at the	
ideology of dominant national parties.	
CO3 To Understand the National and Regional Pa	arties
Composition and Ideology	
CO4 Analyse the Centre-State Relations with foc	cus on the
Legislative, Administrative	
and Financial Relations.	
CO5 Investigating the challenges to National Inte	egration:
Terrorism, Regionalism	
N     POL 5 A     Political Science V     CO1     To Understand the most prominent Ancient 1	1' D-144-01
V         POL5A         Political Science V-         CO1         To Understand the most prominent Ancient I           Indian Bolitical         Thinkers like Manu Kautilua	ndian Politicai
Indian PoliticalThinkers like Manu, Kautilya,ThoughtCO2The paper shall elaborate the Indian Renaise	anna Dalitiaal
Thought     CO2     The paper shall elaborate the Indian Renaise       Thoughts     Thoughts	sance Pointical
CO3   The paper shall analyse Early Nationalism of	of Indian Political
thinking's	n mutan i Ontical
CO4     It shall also explore the ideas of M G Ranad	le Mahatma
Gandhi, Jawaharlal Nehru, B R Ambedkar.	ie, ivianatina
CO5To develop a comprehensive	of the basics of
Indian political thought.	
VI POL6GE1 Political Science VII- CO1 Explaining the nature, scope and evolution	of Public
Public Administration Administration; Private and Public Administ	
CO2 The paper shall deal with the primary admin	nistrative theories
such as Management Theory, Human Relat	ion Theory,
Scientific theory.	
CO3 The basic principles of organisation which	
students to develop a comprehensive unders	standing of the
subjects.	
CO4 The students will also learn about structure	of organisation
and their intricacies.	
CO5 The paper may explain the concepts and the	ories
onmotivation and leadership.	

VI	POL6C	E Governance	CO1	Acquaint student with the introduction to good governance and how it can be achieved by information and communication technology.
			CO2	Understand the growing needs of E-Governance, improving
			002	transparency in the system of governance
				Realize the issues and challenges of E-Governance.
	POL7C	Local Administration	CO1	Understand the existing context of Local Government
				Institutions in India and have knowledge on the need of
			<u> </u>	empowerment and autonomy of LGIs.
			CO2	Provide an overview on financial resources and constitutional provision
ISEM	ENG201	English-A Course in	CO1	Demonstrate the use of Vocabulary
		Communication and	CO2	Understanding of Writing Skills
		Soft Skills	CO3	Acquire ability to use Soft skills in Professional and daily
				life
			CO4	Use of Grammar effectively in writing and speaking
II SEM	ENG202	English- A Course in	CO5 CO1	Confidently use the tools of communication skills Use Reading skills effectively
	ENG202	Reading and Writing	CO1 CO2	Comprehend different text
		Skills	CO2	Use good writing strategies
			CO4	Build up a repository of active vocabulary
			CO5	Improve Writing skills independently for future needs
III		English- A Course in	CO1	Speak fluently in English
SEM		Conversational Skills	CO2	Participate confidently in social interaction
			CO3	Face any Professional discourse
			CO4	Demonstrate critical thinking
			CO5	Enhance Conversational skills by observing the Professional
				interviews
		English- An	CO1	Know the Features of Restoration age
III		Introduction to the	CO2	Identify the Features of Augustan Literature
SEM		Restoration and	CO3	Identify the Characteristics I Literature that reflected the
		Augustan Literature		changing friends in society
		(1660-1750)	CO4	Interpret in Literature of these periods Critically
IV		English- An	CO1	Relate the features of Romantic Period
SEM		Introduction to Romantic and	CO2	Observe the aspects of poetry
		Victorian Literature	CO3 CO4	Identify the contribution of Women as literary artistAnalyze the characteristics in Poetry and Drama
		(1757-1901)	C04	Compare and Evaluate of Literature of these periods
			005	critically
VSEM				
VSEIVI	ENG5A	An outline of 20 <sup>th</sup>	CO1	Understand the History of English Language
	ENG5A	An outline of 20 <sup>th</sup> century literature	CO1 CO2	Understand the History of English Language The Characteristics of Different ages
	ENG5A			
	ENG5A		CO2	The Characteristics of Different ages
	ENG5A		CO2 CO3 CO4	The Characteristics of Different ages Analyze how Language Changes Interpret the ways that led to the formation of Standard English
		century literature	CO2 CO3 CO4 CO5	The Characteristics of Different ages Analyze how Language Changes Interpret the ways that led to the formation of Standard English Analyze English across the world
VSEM	ENG5A ENG5B	century literature         English- Glimpses of	CO2 CO3 CO4 CO5 CO1	The Characteristics of Different agesAnalyze how Language ChangesInterpret the ways that led to the formation of StandardEnglishAnalyze English across the worldTo Understand different forms of Writings
VSEM		century literature	CO2 CO3 CO4 CO5 CO1 CO2	The Characteristics of Different ages Analyze how Language Changes Interpret the ways that led to the formation of Standard English Analyze English across the world To Understand different forms of Writings To Comprehend the Passages
VSEM		century literature         English- Glimpses of	CO2 CO3 CO4 CO5 CO1 CO2 CO3	The Characteristics of Different agesAnalyze how Language ChangesInterpret the ways that led to the formation of StandardEnglishAnalyze English across the worldTo Understand different forms of WritingsTo Comprehend the PassagesTo Understand the central idea of a passage
VSEM		century literature         English- Glimpses of	CO2 CO3 CO4 CO5 CO1 CO2 CO3 CO4	The Characteristics of Different ages Analyze how Language Changes Interpret the ways that led to the formation of Standard English Analyze English across the world To Understand different forms of Writings To Comprehend the Passages To Understand the central idea of a passage Elements of Poetry and devices to appreciate poetry
		century literature English- Glimpses of World Literature	CO2 CO3 CO4 CO5 CO1 CO2 CO3 CO4 CO5	The Characteristics of Different ages Analyze how Language Changes Interpret the ways that led to the formation of Standard English Analyze English across the world To Understand different forms of Writings To Comprehend the Passages To Understand the central idea of a passage Elements of Poetry and devices to appreciate poetry Critical Evaluation of the text
VSEM VI SEM		century literature         English- Glimpses of	CO2 CO3 CO4 CO5 CO1 CO2 CO3 CO4	The Characteristics of Different ages Analyze how Language Changes Interpret the ways that led to the formation of Standard English Analyze English across the world To Understand different forms of Writings To Comprehend the Passages To Understand the central idea of a passage Elements of Poetry and devices to appreciate poetry

				English
			CO4	Realize the importance of Grimm's law and verner's law
			CO5	Significance of the great Vowel Shift and the 1 <sup>st</sup> Consonant
			000	Shift.
VI		English- Indian	CO1	To understand the rise of Translation studies
SEM		Writing in English	CO2	To trace the changes in dramatic form
~		/Translation	CO3	To Study the contribution of Rabindranath Tagore, Raja Rao
		/	005	and R.K. Narayana
			CO4	Glimpses of the Indian Writing in English
			CO5	To understand the development of Short story of the 20 <sup>th</sup>
				Century
	ENG6C	Writing For The	CO1	Write with confidence
VI		Media		Differentiate between various types of media writing
SEM				Gather and synthesize information from authentic sources
				Deliver presentations on the literary works
	ENG7C	Creative Writing and	CO1	To Understand and define the art of Creative Writing
		Literary Appreciation		Identify different literary genres
				Demonstrate the creative writing skills
				. Review the published works of others
1				
1	TEL 201	Telugu 1	CO1	Inculcate qualities of leadership through the lessons of polity
			CO1	Evaluin the character of Delveho
			CO2	Explain the character of Daksha
			CO3	Explain how the empoloyees behave ethically
			CO4	Says how one should develop valourand bravery
2		Talaan 2	CO5	Explain these lfesteem of Srinivas and Padmavathi
2	TEL202	Telugu 2	CO1	Understood the contemporary issues through literacy moments in the modern literature
			CO2	
				Realize the message of the changes in the emergence of Story writing
			CO3	Proved how the social empourment can be sought
			005	through The process off ictionery novels
			CO4	Learn tab out the plays different folkarts
			C05	Know the rationality behind qualitie so facritics in the
			005	Modules literature
3	TEL193	Telugu 3	CO1	Inculcate the qualities of honesty like trust
5		i ciugu s	001	worthynessThrough the story of emperor Bali
			CO2	Inculcate the intimacy of nalludu
			CO3	Realize the Importance of love and effection towords friends
				And parents through the story narrated by Gowthama to
				Nandana
			CO4	Explain the Humanization in Tilak
			CO5	Sri Revolutionary poetry
			CO6	Preach how the selfishness of the people kill the Humanity
				Through the play varudu
4		Leader ship	CO1	Recognize the different theories of leadership and define
				function and management
				Summarise the behavioural concepts and apply personality
			CO2	development concepts in the attitude formation and change
			CO3	Understand the interpersonal behavior in leadership and
				evaluate taransactional analysis
			CO4	Understand the group dynamics and conclude how to resolve
				conflicts in the management
			CO5	Analyse team build in gandmanagement and construct team
				Building activities

3	TEL193S	Special Telugu –	CO1	Narrate the poetry is their translation writing pocess
5	TEL1755	paper		The couplet style of writing is Siva kavulu
		puper	CO2	The couplet style of writing is sive kavelu
			CO2	The Potana and Srinadha translation narraate
			CO4	Tell about the prabhandas
4	TEL194S	Special Telugu –	C04	Explain about the Gurajada, sri Krishnasastri, Jashuva
4	ILLI946	paper- I	COI	modern poetry briefly
			CO2	About the Novel of Kandukuri, Unnava, Viswanadha
			02	,kodavatiganti kesava Reddy in a nutshell
			CO3	Explain about the play tirupathi, dharma varam, vedam in a
			005	netshell
			CO4	Explain about the the Short story of
				Sripada,chalam,maduranthakam,potlapalli in a netshall
5	TEL5B	Spl telugu	CO1	Explain the paragraphs of the Guesture treaty
5	TLLSD	Spi telugu	CO2	Tell the Alankaras in poetic beauty
			CO2	Explain the poetry approach
			C04	The beauty of yathubasha
			CO4 CO5	The beauty of prasabasha
6	TEL6CE1	Spl Telugu	CO3	Explain the types communication
0	TELUCET	spi i ciugu	CO1 CO2	Tell the reporter Qualifications ,Responsibilities
			CO2 CO3	
			CO3	Explain the types of news features Classification of emerging developments in journals
6	TEL6CE2	Special Taluau	C04 C01	Types of joints
0	IELOCE2	Special Telugu – paper- I	CO1 CO2	Explain the phrases' gender, text inflection
		paper- I	CO2 CO3	Sentence definition differences
			CO3	
				Types of verbs
			CO5 CO1	Slandered language requirement
			COI	Appreciating the penance performed by Arjuna, Lord Shiva
1SEM	TEL201S	Special Taluan		presided over the Pasupatastra, Perseverance is the key to
ISENI	1EL2015	Special Telugu – paper- I	CO2	success.
		paper- I	02	Appreciating the devotion of Bejjamahadevi, Lord Shiva bestowed salvation
				bestowed salvation
			CO3	Forget the help given by Nadeejanghu and kill the Brahmin
			005	who should never do harm to those who have done good
				who should never do harm to those who have done good
			CO4	Prahlad's devotional life is ideal for everyone
			0	
			CO5	Everyone must have sensual restraint, as a nobleman
			005	Everyone must have sensual restraint, as a nooleman
				Rayaprolu exhorted that we should not forget Mother India
			CO1	who informs our India of progress
II SEM	TEL202S	Special Telegu –paper	001	
	1222020	-2	CO2	The Vemana poet spoke of morality
		_	002	The vehicle poet spoke of moranky
			CO3	Informing students of the message Joshua sent with the bat
			005	informing students of the message soshud sent with the out
			CO4	Explaining the Humanitarian Perspective to Students in Sri
				SriBhikshuvarshiyasiKadika
				······································
			CO5	Explaining to students about the experience Tilak had on the
				night of the elixir
V	TEL5A	Special Telegu –V	CO1	Types of dialects Explaining dialect differences
SEM		paper		
			CO2	Explain the Summary Telugu-Telugu-Andhra Pradesh
				antiquity, spread
I	I	1	i	1

			CO3	Explaining the position and linguistic features of Telugu in
				Dravidian languages
			CO4	Informing about the semantics of the Telugu language
			CO5	Foreign Languages in Telugu - Types of Homogeneous Languages, Explaining Foreign Languages
			CO1	Poetic Definition A description of poetic adjectives, poetic
VI SEM	TEL6GE1	Special Telegu –VII Paper elective		variations, and poetic reasons
		Literary Criticism	CO2	The characteristics of the best critic, the differences of criticism are the characteristics of the critic
			CO3	About the importance of Navrasa Explaining
			CO4	Novel and Drama, Narrative Features and Importance
			CO5	Article features, and description of the importance of fine arts
			CO6	Translation morphology, translation definition Description about
			CO1	Inform about the types of translation and the features of the translation
	TEL6CE3	Special Telegu –	CO2	Telling about translation issues, and benefits
		Telugu Translation	CO3	Telugu as the official language, the importance of the work being done in the state administration
			CO4	Official Language Association Duties, Rights, Responsibilities Description about
	+		+	Introduction-definition ,importance, process classifications
		Human values&	CO1	of value education explain briefly
1SEM	LSC2	professional ethics – life skill course	CO2	Harmony in the family –understanding values in human relationships about Explaining
		me skin eourse	CO3	professional ethics in education briefly Explaining.
	SDC2	Performing arts -	CO1	Managing the dream and revealing its nature
II SEM	SDC24A	skill development course		Willinging the dream and revealing his nature
	TEL6C	Telugu	CO1	To know the Grammar
VI SEM		Bhashaswarupam		To understand telugu Grammar
	TEL7C	Telugu Rachanareethulu	CO1	Informing about drama and theater Sentence definition differences
I-	BOT-201	Fundamentals of	CO1	Explain origin of life on the earth.
Semest		Microbes And Non	CO2	Illustrate diversity among the viruses and prokaryotic
er		Vascular Plants		organisms and can categorize – them.
			CO3	Classify fungi, lichens, algae and bryophytes based on their
				structure, reproduction and – life cycles.
			CO4	Analyze and ascertain the plant disease symptoms due to
			CO5	viruses, bacteria and fungi Recall and explain the evolutionary trends among
				Recall and explain the evolutionary trends among
			CO6	<ul><li>amphibians of plant kingdom for their shift to land habitat</li><li>Evaluate the ecological and economic value of microbes,</li></ul>
				thallophytes and bryophytes.
I-	BOT-201P	Fundamentals of	CO1	Demonstrate the techniques of use of lab equipment,
Semest		Microbes And Non		preparing slides and identify the material and draw diagrams
Deffiest	<u> </u>	Microbes / martish		proparing sinces and identify the indicate and draw diagrams

er		Vascular Plants-		exactly as it appears.
CI		Practicals	CO2	Observe and identify microbes and lower groups of plants on
		1 Tuotiouis		their own.
			CO3	Demonstrate the techniques of inoculation, preparation of
				media etc.
			CO4	Identify the material in the permanent slides etc
II-	BOT-202	Basics of Vascular	C01	Classify and compare Pteridophytes and Gymnosperms
Semest	DO1 202	plants and		based on their morphology, anatomy, reproduction and life
er		Phytogeography(Pteri		cycles.
01		dophytes,	CO2	Justifyevolutionary trends in tracheophytes to adapt for land
		Gymnosperms,	001	habitat.
		Taxonomy of	CO3	Explain the process of fossilization and compare the
		Angiosperms and		characteristics of extinct and $\neg$ extant plants.
		Phytogeography)	CO4	Critically understand various taxonomical aids for
				identification of Angiosperms
			CO5	Analyze the morphology of the most common Angiosperm
				plants of their localities – and recognize their families
			CO6	Evaluate the ecological, ethnic and economic value of
				different tracheophytes and – summarize their goods and
				services for human welfare.
			CO7	Locate different phytogeographical regions of the world and
			007	India and can analyze¬ their floristic wealth.
				india and can analyze + then noristic weath.
II-	BOT-202P	Basics of Vascular	CO1	Demonstrate the techniques of section cutting, preparing
Semest	201 2021	plants and	001	slides, identifying of the materialand drawing exact figures.
er		Phytogeography(Pteri	CO2	Compare and contrast the morphological, anatomical and
-		dophytes,		reproductive features of vascular plants.
		Gymnosperms,	CO3	Identify the local angiosperms of the families prescribed to
		Taxonomy of		their genus and species level and prepare herbarium.
		Angiosperms and	CO4	Exhibit skills of preparing slides, identifying the given twigs
		Phytogeography)-		in the lab and drawing figures of plant twigs, flowers and
		Practicals		floral diagrams as they are.
			CO5	Prepare and preserve specimens of local wild plants using
				herbarium techniques.
III-	BOT-193	Plant Taxonomy and	CO1	Understand external and internal structure of plants
Semest		Embryology	CO2	Aware various plant families and its economic importance
er			CO3	Get knowledge on structure and development plant embryo
III-	BOT-193	Plant Taxonomy and	CO1	Plant anatomy and embryology are much awaited subject to
Semest		Embryology-		study the internal structures and structure & function of
er		Practicals		reproductive organs in plants.
			CO2	Students will be able to utilize embryological studies in
				various aspects like analysis of evolutionary trends,
				circumscription and delimitation of taxa and making a
				decision on systematic positions.
			CO3	Understand morphological and reproductive characters
				different plant families.
IV-	BOT-194	Plant Physiology and	CO1	Comprehend the importance of water in plant life and
Semest		Metabolism		mechanisms for transport of water and solutes in plants.
er			CO2	Evaluate the role of minerals in plant nutrition and their
				deficiency symptoms.
			CO3	Interpret the role of enzymes in plant metabolism.
			CO4	Critically understand the light reactions and carbon
			1	assimilation processes responsible for synthesis of food in
				plants.
			CO5	

V- Semest er         B0T-194P bar Plysiology and Metabolisn-Practical er         Plant Physiology and Metabolisn-Practical er         CO1         Conduct ba and field experiments pertaining to Plant physiology of plants under stress conditions           V- Semest er         B0T-54         Plant Physiology and Metabolisn-Practical er         CO2         Estimate the quantities and qualitative expressions using experimental results and calculations           V- Semest er         B0T-5A         Cell Biology, Genetics ond Plant Breeding         Distinguish prokaryotic and eakaryotic cells and design the model of a cell.           V- Semest er         B0T-5A         Cell Biology, Genetics ond Plant Breeding         CO2         Explain the organization of a eakaryotic cells and design the model of a cell.           V- Semest er         B0T-5A         Cell Biology, Genetics ond Plant Breeding- Practical         CO3         Distriguish prokaryotic and eakaryotic cells and design the model of a cell.           V- Semest er         B0T-5A         Cell Biology, Genetics and Plant Breeding- Practical         CO3         Eventorstot techniques to observe the cell and its components under a microscope           V- Semest er         B0T-5A         Cell Biology, Genetics and Plant Breeding- Practical         CO1         Eventorstot the structure, function and regulation of genetic macrial.           V- Semest er         B0T-5B         Plant Ecology and Plytogeography- Practical         CO1         Eventhe structure, function and hegunatic macrial.			1	<i></i>	
IV- Semest er         BOT-194P Hant Physiology and Metabolism-Practical er         CO1         Conduct bla and field experiments perfaining to Plant Physiology, that is, biophysical and biochemical processes using related glassware, equipment, chemical sand plant nuterial.           V- Semest er         BOT-5A         Cell Biology, Genetica and Plant Breeding er         CO2         Estimate the quantities and qualitative expressions using experimental results and calculations           V- Semest er         BOT-5A         Cell Biology, Genetica and Plant Breeding er         CO2         Explain the organization of a eukaryotic cells and design the model of a cell.           V- Semest er         BOT-5A         Cell Biology, Genetica and Plant Breeding er         CO2         Explain the organization of a eukaryotic cells and design the model of a cell.           V- Semest er         BOT-5AP         Cell Biology, Genetica and Plant Breeding Practical         CO2         Explain the organization of a eukaryotic cell and its components under a microscope components under a microscope component surfar a microscope component of comparistrating mitoris and Meiosis in the taboratory and identify different stages of cell division.           V- Paperi         BOT-5BP         Plant Ecology and form a model				CO6	Evaluate the physiological factors that regulate growth and
Iv- Semest, er         BOT-194P Hart Physiology and Metabolism-Princical without in the phane in the phane in the phane in the phane in the phane in the phane in the phane in the phane in the phane in the phane material.         Coll         Conduct lab and field experiments pertaining to Phane Physiology, that is, biophysical and biochemical processes using related glassware, equipment, chemicals and phane material.           V- Semest, er         BOT-5A         Cell Biology, Genetics and Plane Breeding er         Takinate the quantities and qualitative expressions using experiment results and calculations in the organization of a cultaryotic cells and design the development in plants.           V- Semest er         BOT-5AP         Cell Biology, Genetics and Plane Breeding er         Coll         Distinguish prokaryotic and eukaryotic cells and design the organization of a cell.           V- Semest er         BOT-5AP         Cell Biology, Genetics and Plane Breeding Hartical         Coll         Evaluate the structure of participes to observe the cell and its components under a microscope           V- Semest er         BOT-5AP         Cell Biology, Genetics and Plane Breeding Hartical         Coll         Evaluate the structure, function and regulation of genetic material           V- Semest er         BOT-5AP         Plane Ecology and Phytogeography Phytogeography Fractical         Coll         Evaluate the structure, function and hybridization for improvement of conps           V- Semest er         BOT-5BP         Plane Ecology and Phytogeography Phytogeographyte Fracicial         Coll         Identstru				~ ~ ~	
IV- senset er         BOT-194P         Plant Physiology and Metabolism-Practical         CO1         Conduct lab and field experiments pertaining to Plant material.           V- sensest er         BOT-5A         Cell Biology, Genetics and Plant Breeding.         CO2         Estimate the quantifies and qualitative expressions using experimental results and eakulations.           V- sensest er         BOT-5A         Cell Biology, Genetics and Plant Breeding.         CO1         Distinguish prokaryotic and eukaryotic cells and design the model of a cell.           V- sensest er         BOT-5A         Cell Biology, Genetics and Plant Breeding.         CO2         Estimative of genetic material           V- sensest er         Cell Biology, Genetics and Plant Breeding.         CO3         Demonstrate techniques to observe the cell and its components under a microscope           V- sensest er         BOT-5AP         Cell Biology, Genetics and Plant Breeding.         CO1         Fixaluate the structure, function and regulation of genetic material.           V- sensest er         BOT-5AP         Cell Biology and Plant Breeding.         CO2         Understand the application of principles and modern techniques in plant treeding.           V- sensest er         BOT-5AP         Plant Ecology and Phytogeography         CO3         Ecology and Phytogeography         CO3         Ecologian definition of reservers and perimeters of a cell from a model or picture and prepare models         CO3         Dermostrate plant				CO7	
Semest er         Metabolism-Practical er         Physiology, that is, biophysical and biochemical processes using related glassware, equipment, chemicals and plant material.           V- Semest er         B0T-5A         Cell Biology, Genetics and Plant Breeding         CO2         Extinate the quantities and qualitative expressions using experimental results and calculations           V- Semest er         B0T-5A         Cell Biology, Genetics and Plant Breeding         CO2         Explain the organization of a cukaryotic cells and design the model of a cell.           Paper)         Explain the organization of a cukaryotic chromosome and the structure of genetic material         Demonstrate techniques to observe the cell and its components under a microscope           V- Semest er         BOT-5AP         Cell Biology, Genetics and Plant Breeding- Practical         CO1         Evaluate the traft of chraiters           V- Semest er         BOT-5AP         Plant Ecology and Practical         CO2         Explain the procedures of selection and hybridization for improvement of crops           V- Semest er         BOT-5BP         Plant Ecology and Phytogography- Practical         CO1         Explain the procedures of selection and hybridization for improvement of crops           V- Semest er         BOT-5BP         Plant Ecology and Phytogography- Practical         CO1         Explain the procedures of selection and hybridization for improvement of crops           V- Paper)         BOT-5BP         Plant Ecology and Phytogogr					
er         Norman         Selection of principle section sec		BOT-194P		CO1	
V- series         B0T-5A F         Cell Biology, Genetics and Plant Breeding experimental results and calculations         CO3         Demonstrate the factors responsible for growth and development in plants.           V- senest er (V- Paper)         B0T-5A F         Cell Biology, Genetics and Plant Breeding (V- Paper)         CO1         Distinguish prokaryoic and eukaryotic cells and design the model of a cell.           V- senest         B0T-5AP         Cell Biology, Genetics and Plant Breeding (V- Paper)         CO1         Demonstrate the factors responsible for genetic material           V- senest         B0T-5AP         Cell Biology, Genetics and Plant Breeding (V- (V- (V- Paper)         CO2         Explain the organization of a enkaryotic chronosome and the structure of genetic material           V- senest         B0T-5AP         Cell Biology, Genetics and Plant Breeding (V- (V- (V- Paper)         CO2         Explain the procedures observe the cell and its components under a microscope (CO4         Evaluate the structure, function and regulation of genetic material.           V- senest         B0T-5BP         Plant Ecology and Phytogeography         CO1         Hordune dhearaters madel on picture models           V- senest         B0T-5BP         Plant Ecology and Phytogeography         CO1         Identify and explain with diagram the cellular parts of a cell from a model or picture models           V- senest         B0T- Paper)         Organic Farming and Phytogeography- Prarecical         CO1         Identif	Semest		Metabolism-Practical		
V- Semest er (V, Paper)         BOT-5A         Cell Biology, Genetic and Plant Breeding of Coll Demonstrate the factors responsible for growth and development in plants.           V- Semest er (V, Paper)         BOT-5A         Cell Biology, Genetic and Plant Breeding of Coll Distinguish prokaryotic and eukaryotic cells and design the model of a cell.           V- Semest er (V, Paper)         BOT-5AP         Cell Biology, Genetic and Plant Breeding         CO2         Explain the organization of a eukaryotic chromosone and the structure of genetic material CO3           V- Semest er (V, Paper)         BOT-5AP         Cell Biology, Genetic and Plant Breeding.         CO1         Discuss the basics of Medelian genetics, its variations and interpret inferinace of tratist in lying beings.           V- Semest er (V, Paper)         BOT-5AP         Cell Biology, Genetics and Plant Breeding.         CO1         Evaluate the structure, function and regulation of genetic material.           V- Semest er (V, V- Paper)         BOT-5B         Plant Ecology and Phytogeography (V- Paper)         CO1         Evaluate the structure, function and hyphridization for improvement of crops in the taboratory and identify different stages of cell division.           V- Semest er (V, V- Paper)         BOT-5BP         Plant Ecology and Phytogeography Phytogeography Phytogeography Practical         CO1         Learn about conservation of biodiversity.           V- Semest er (V, Paper)         BOT-5BP         Plant Ecology and Phytogeography Phytogeography Practical         CO1         Learn	er				
V- Semest er (V- Paper)         BOT-5A BOT-5AP         Cell Biology, Genetics and Plant Breeding er (V- Paper)         C01         Distinguish prokaryotic and cukaryotic cells and design the model of a cell.           V- Semest er (V- Paper)         ECH Biology, Genetics and Plant Breeding         C02         Explain the organization of a cukaryotic chromosome and the structure of genetic material           V- Semest er (V- Paper)         BOT-5AP         Cell Biology, Genetics and Plant Breeding- Pracical         CO1         Discuss the basics of Mendelian genetics, its variations and interpret inheritance of craisin in tiving beings           V- Semest er (V- Paper)         BOT-5AP         Cell Biology, Genetics and Plant Breeding- Pracical         CO1         Evaluate the structure, function and regulation of genetic inheritance of characters           V- semest er (V- Paper)         BOT-5AP         Cell Biology and Pracical         CO1         Evaluate the structure, function and regulation of genetic interchiques in plant breeding           V- semest er (V- (V- (V- (V- (V- V- Paper)         BOT-5B         Plant Ecology and Phytogeography         CO1         Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models           V- semest er (V- (V- (V- V- paper)         BOT-5BP         Plant Ecology and Phytogeography- Pracical         CO1         Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models           V- semest er (V- V- paper)         BOT-5BP					
V- Seriest er (V- Paper)         BOT-5A (V- paper)         Cell Biology, Genetics and Plant Breeding         COI         Distinguish prokaryotic and eukaryotic cells and design the model of a cell.           V- paper)         BOT-5AP         Cell Biology, Genetics and Plant Breeding         COI         Explain the organization of a eukaryotic cells and design the model of a cell.           V- Semest er (V- Paper)         BOT-5AP         Cell Biology, Genetics and Plant Breeding- Practical         Coll Biology Genetics and Plant Breeding- Practical         Coll Evaluate the structure of certra-chromosomal genetic material for inheritance of characters           V- Semest er (V- Paper)         BOT-5AP         Cell Biology Genetics and Plant Breeding- Practical         Coll Evaluate the structure, function and regulation of genetic material.           V- Semest er (V- Paper)         BOT-5AP         Plant Breeding- Practical         CO2         Understand the application of principles and modern techniques of selection and hybridization for improvement of crops           V- Semest er (V- Paper)         BOT-5BP         Plant Ecology and Phytogeography         CO1         Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models           V- Semest er (V- Paper)         BOT-5BP         Plant Ecology and Phytogeography- Practical         CO1         Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models           V- Semest er (V- Paper)         BOT- Semest er				CO2	
V- Semest er         BOT-5A         Cell Biology, Genetics and Plant Breeding- er         CO1         Distinguish prokaryotic and eukaryotic chromosome and the structure of genetic material           Paper)         Nor- Semest         Co2         Explain the organization of a eukaryotic chromosome and the structure of genetic material           Paper)         Nor- Paper         Co1         Discourstrate techniques to observe the cell and its components under a microscope           V- Semest         BOT-5AP         Cell Biology, Genetics and Plant Breeding- Practical         CO1         Evaluate the structure, function and regulation of genetic material.           V- (V- (V- (V- Paper)         BOT-5AP         Cell Biology, Genetics and Plant Breeding- Practical         CO1         Evaluate the structure, function and regulation of genetic material.           V- (V- (V- (V- Paper)         BOT-5B         Plant Breeding- Practical         CO2         Evaluate the structure, function and regulation of genetic material.           V- (V- (V- Paper)         BOT-5B         Plant Breeding- Practical         CO1         Understand the application of principles and modern techniques in plant breeding.           V- Semest er         BOT-5B         Plant Breeding- Phytogeography         CO1         Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models.           V- Paper)         BOT-5B         Plant Breeding- Phytogeography- Practical         CO1					
V- Semest er (V- Paper)         BOT-5A Paper)         Cell Biology, Genetics and Plant Breeding         CO1 Pant Breeding         Distinguish prokaryotic and eukaryotic cells and design the model of a cell.           V- Semest er         BOT-5AP         Cell Biology, Genetics and Plant Breeding- reaction         CO2         Explain the organization of a eukaryotic chromosome and the structure of genetic material interpret inheritance of traits in hving beings           V- Semest er         BOT-5AP         Cell Biology, Genetics and Plant Breeding- Practical         CO1         Evaluate the structure, function and regulation of genetic material.           V- Semest er         BOT-5AP         Cell Biology and Plant Breeding- Practical         CO2         Evaluate the structure, function and regulation of genetic material.           V- Semest er         BOT-5B         Plant Ecology and Plant Ecology and Platt Geology and CO2         CO1         Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models           V- Semest er         BOT- 5BP         Plant Eco				CO3	
Semest er (V- Paper)       and Plant Breeding (V- Paper)       model of a cell.       u       model of a cell.       u         V- Semest er (V- Paper)       BOT-SAP       Cell Biology. Genetics and Plant Breeding- Practical       CO1       Demonstrate techniques to observe the cell and its components under a microscope         V- Semest er (V- Paper)       BOT-SAP       Cell Biology. Genetics and Plant Breeding- Practical       CO1       Evaluate the structure of traits in living beings         V- Semest er (V- Paper)       BOT-SAP       Cell Biology. Genetics and Plant Breeding- Practical       CO1       Evaluate the structure, function and regulation of genetic material.         V- Semest er (V- Paper)       BOT-SB       Plant Ecology and Phytogeography er (V- Paper)       Plant Ecology and Phytogeography- Practical       CO1       Understand plant breeding techniques such as emasculation and hybridization for in inductor of the laboratory and identify different stages of cell division.         V- Semest er (VI- Paper)       Plant Ecology and Phytogeography- Practical       CO1       Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models         V- Semest er (VI- Paper)       BOT-SB       Plant Ecology and Phytogeography- Practical       CO1       Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models         V- Semest er (VI- Paper)       BOT- SB       Plant Ecology and Phytogeography- Practical       CO1					
er (V- Paper)       Paper)       CO2       Explain the organization of a eukaryotic chromosome and the structure of genetic material         Paper)       Paper)       CO3       Demonstrate techniques to observe the cell and its components under a microscope         V- Semest er (V- Paper)       BOT-5AP       Cell Biology, Genetics and Plant Breeding- Practical       CO1       Evaluate the role of extra-chromosomal genetic material for inheritance of characters         V- Paper)       BOT-5AP       Cell Biology, Genetics and Plant Breeding- Practical       CO1       Evaluate the structure, function and regulation of genetic material.         V- Paper)       BOT-5AP       Cell Biology, Genetics and Plant Breeding- Practical       CO1       Explain the procedures of selection and hybridization for improvement of crops         V- Paper)       BOT-5B       Plant Ecology and Phytogeography       CO1       Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models         (V- Paper)       BOT-5BP       Plant Ecology and Phytogeography- er       CO1       Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models         V- Semest er (VI- Paper)       BOT-5BP       Plant Ecology and Phytogeography- Practical       CO1       Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models         V- Semest er (VI- Paper)       BOT-5BP       Plant Ecology and Phytogeograp		BOT-5A	••	CO1	
(V- Paper)         Paper)         Paper)         it is structure of genetic material           (V- Paper)         Paper)         Port-5AP         Cell Biology, Genetics and Plant Breeding- Practical         CO1         Evaluate the structure, function and regulation of genetic material.           V- Semest er (V- Paper)         BOT-5AP         Cell Biology, Genetics and Plant Breeding- Practical         CO1         Evaluate the structure, function and regulation of genetic material.           V- Semest er (V- Paper)         BOT-5BP         Plant Ecology and Plytogeography         CO2         Understand the application of principles and modern techniques in plant breeding.           V- Semest er (V- Paper)         BOT-5BP         Plant Ecology and Phytogeography         CO1         Leastify and explain with diagram the cellular parts of a cell from a model or picture and prepare models           V- Semest er (VI- Paper)         BOT-5BP         Plant Ecology and Phytogeography         CO1         Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models           V- Semest er (VI- Paper)         BOT-5BP         Plant Ecology and Phytogeography         CO2         Soft the problems related to crosses and gene interactions.           V- Semest er (VI- Paper)         BOT-5BP         Plant Ecology and Phytogeography         CO2         Ecology and Phytogeography regions of India and Wegetation types in Andhra Pradesh.           V- Semest er (VI- Paper)	Semest		and Plant Breeding		model of a cell.
Paper)         Paper)         Formation of the serve of the cell and its components under a microscope           CO3         Demonstrate techniques to observe the cell and its components under a microscope           CO4         Discuss the basics of Mendelina genetics, its variations and interpret inheritance of traits in living beings           V-         BOT-5AP         Cell Biology, Genetics and Plant Breeding-Practical         CO1         Evaluate the structure, function and regulation of genetic material.           V-         BOT-5AP         Cell Biology, Genetics and Plant Breeding-Practical         CO2         Understand the application of principles and modern techniques in plant breeding           V-         BOT-5B         Plant Ecology and Plant Breeding-Practical         CO3         Explain the procedures of selection and hybridization for improvement of crops           (V-         BOT-5B         Plant Ecology and Phytogeography         CO1         Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models           (V-         BOT-5B         Plant Ecology and Phytogeography-Practical         CO4         Now the woope and importance of the discipline.           (V-         BOT-5B         Plant Ecology and Phytogeography-Practical         CO4         Know the scope and importance of the discipline.           (V-         BOT-5B         Plant Ecology and Phytogeography-Practical         CO3         Demonstrate plant breedi	er			CO2	Explain the organization of a eukaryotic chromosome and
V- Semest er (V- Paper)         BOT-5AP BOT-5AP end (C)         Cell Biology, Genetic, and Plant Breeding- Practical         CO1         Evaluate the role of extra-chromosonal genetic material for inheritance of characters           V- Semest er (V- Paper)         BOT-5AP (V- Paper)         Cell Biology, Genetic, and Plant Breeding- Practical         CO1         Evaluate the structure, function and regulation of genetic inheritance of characters           V- Semest er (V- Paper)         BOT-5BP Plant Ecology and Phytogeography- er (V- Paper)         Plant Ecology and Phytogeography- Phytogeography- Phytogeography- Practical         CO1         Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models           V- Semest er (VI- Paper)         Plant Ecology and Phytogeography- Phytogeography- Practical         CO1         Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models           V- Semest er (VI- Paper)         Plant Ecology and Phytogeography- Practical         CO2         Solve the problems related to crosses and gene interactions.           CO3         Demonstrate plant breeding techniques of India and vegetation types in Andtra Pradesh.         CO2         Solve the problems related to crosses and gene interactions.           V- Paper         BOT-5BP (C)         Plant Ecology and Phytogeography- Practical         CO2         Demonstrate plant breeding techniques of the discipline.           CO4         Know the scope and importance of the discipline.         CO3 <td>(V-</td> <td></td> <td></td> <td></td> <td>the structure of genetic material</td>	(V-				the structure of genetic material
V- Semest er (V- Paper)         BOT-5AP BOT-5AP er (V- Paper)         Cell Biology, Genetics and Plant Breeding- Practical         CO1         Evaluate the structure, function and regulation of genetic material.           V- Semest er (V- Paper)         BOT-5AP Partical         Cell Biology, Genetics and Plant Breeding- Practical         CO1         Evaluate the structure, function and regulation of genetic material.           V- Paper)         BOT-5B Partical         Plant Ecology and Phytogeography         CO2         Understand the application of principles and modern techniques of selection and hybridization for improvement of crops           V- Semest er (V- Paper)         Plant Ecology and Phytogeography         CO1         Explain the procedures of selection and hybridization for improvement of crops           V- Semest er (VI- Paper)         Plant Ecology and Phytogeography         CO1         Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models           V- Semest er (VI- Paper)         Plant Ecology and Phytogeography- Practical         CO1         Learn about conservation of biodiversity.           V- Semest er         Ogranic Farming and Sustainable         CO1         Learn about conservation of biodiversity.           VI- Semest er         GOT- GGE1         Sustainable Agriculture         CO1         Learn about conservation of biodiversity.           CO2         Discover botanical regions of India and World.         CO2         Discovere vertan	Paper)			CO3	Demonstrate techniques to observe the cell and its
Number         Interpret inheritance of traits in living beings           V-         BOT-5AP         Cell Biology, Genetics and Plant Breeding- Practical         CO1         Evaluate the structure, function and regulation of genetic material.           V-         Paper)         Practical         CO2         Understand the structure, function and hybridization for improvement of crops           V-         BOT-5BP         Plant Ecology and Phytogeography er         CO3         Explain the procedures of selection and hybridization for improvement of crops           V-         BOT-5B         Plant Ecology and Phytogeography er         CO1         Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models           V-         BOT-5BP         Plant Ecology and Phytogeography- Practical         CO1         Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models           V-         BOT-5BP         Plant Ecology and Phytogeography- Practical         CO1         Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models           V-         BOT-5BP         Plant Ecology and Phytogeography- Practical         CO1         Identify and explain with diagram the cellular parts con a masculation and bagging           V-         BOT-5BP         Plant Ecology and Phytogeography- Practical         CO2         Discover botanical regions of India and World.					components under a microscope
V- Semest er (V- Paper)         BOT-5AP         Cell Biology, Genetics and Plant Breeding- Practical         CO1         Evaluate the structure, function and regulation of genetic material.           V- Paper)         BOT-5AP         Cell Biology, Genetics and Plant Breeding- Practical         CO2         Understand the application of principles and modern techniques in plant breeding           V- Semest er (V- Paper)         BOT-5B         Plant Ecology and Phytogeography         CO1         Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models           V- Semest er (VI- Paper)         BOT-5B         Plant Ecology and Phytogeography         CO1         Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models           V- semest er (VI- Paper)         BOT-5BP         Plant Ecology and Phytogeography         CO2         Solve the problems related to crosses and gene interactions. CO3         Demonstrate plant breeding techniques such as emasculation and bagging           V- semest er (VI- Paper)         BOT-5BP         Plant Ecology and Phytogeography- Practical         CO1         Learn about conservation of biodiversity.           V- semest er         BOT-5BP         Plant Ecology and Phytogeography- Practical         CO2         Discover botanical regions of India and World.           CO2         Solver extramable and microscopic study of vegetative, anatomical and reproductive structure of plants.         CO2				CO4	Discuss the basics of Mendelian genetics, its variations and
V- Semest er (V- Paper)BOT-SAP Semest er (V- Paper)Cell Biology, Genetics and Plant Breeding- PracticalCO1 EC01 EValuate the structure, function and regulation of genetic material.V- Paper)Part Ecology and Phytogeography er (VI- Paper)Plant Ecology and Phytogeography erCO2Understand the application of principles and modern techniques in plant breeding (V- Show the understanding of techniques of demonstrating Mitosis and Meiosis in the laboratory and identify different stages of cell division.V- Semest er (VI- Paper)Plant Ecology and Phytogeography erCO1Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare modelsV- Semest er (VI- Paper)Plant Ecology and Phytogeography PracticalCO1Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare modelsV- Semest er (VI- VI- Semest erPlant Ecology and Phytogeography- PracticalCO1Learn about conservation of biodiversity.V- Semest er (VI- VI- Semest erBOT- SBP GCE1Plant Ecology and Phytogeography- PracticalCO1Learn about conservation of biodiversity.V- Semest er or (VI- Semest erBOT- Semest AgricultureCO1Get familiarized with techniques of section making, staining and microscopic study of vegetative, anatomical and reproductive structure of plants.CO2 Sustanable er or or Semest er or Semest erOrganic Farming and AgricultureCO1 S					interpret inheritance of traits in living beings
V- Semest er (V. Paper)         BOT-5AP Network         Cell Biology, Genetics and Plant Breeding- Practical         CO1 For CO2         Evaluate the structure, function and regulation of genetic material.           V- Paper)         Paper)         Practical         CO2         Understand the application of principles and modern techniques in plant breeding           V- Semest er (VI- Paper)         BOT-5B         Plant Ecology and Phytogeography         CO1         Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models           (VI- Paper)         Paper)         Plant Ecology and Phytogeography         CO1         Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models           (VI- Paper)         BOT-5B         Plant Ecology and Phytogeography         CO1         Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models           (VI- Paper)         BOT-5BP         Plant Ecology and Phytogeography- Practical         CO1         Learn about conservation of biodiversity.           V- Semest er (VI- Paper)         BOT- BOT- BOT- Sustainable         Organic Farming and Agriculture         CO1         Learn about conservation of biodiversity.           V- Semest er         GGE1         Organic Farming and Agriculture         CO1         CO3         Phytogeography regions of India and vegetation types in Andhra Pradesh.           CO2 <t< td=""><td></td><td></td><td></td><td>CO5</td><td>Elucidate the role of extra-chromosomal genetic material for</td></t<>				CO5	Elucidate the role of extra-chromosomal genetic material for
Semest er (V- Paper)         and Plant Breeding- Practical         material.         CO2         Understand the application of principles and modern techniques in plant breeding           V- Semest er         No         Explain the procedures of selection and hybridization for improvement of crops           V- Semest er         BOT-5B         Plant Ecology and Phytogeography er         CO1         Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models           V- Semest er         Explain the procedures of the discipline.         CO2         Solve the problems related to crosses and gene interactions.           (VI- Paper)         BOT-5BP         Plant Ecology and Phytogeography- er         CO1         Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models           V- Paper)         BOT-5BP         Plant Ecology and Phytogeography- Practical         CO1         Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models           V- Paper)         BOT- Practical         Plant Ecology and Phytogeography- Practical         CO1         Identify and explain with diagram the cellular parts of andhra Pradesh.           VI- Paper)         BOT- Practical         Organic Farming and Agriculture         CO1         CO1         Get familiarized with techniques of section making, staining and microscopic study of vegetative, anatomical and reproductive structure of plants.           V					inheritance of characters
er (V- Paper)PracticalCO2 CO3Understand the application of principles and modern techniques in plant breedingPaper)CO3Explain the procedures of selection and hybridization for improvement of cropsV- Semest er (VI- Paper)Plant Ecology and PhytogeographyCO4Show the understanding of techniques of demonstrating Mitrosis and Meiosis in the laboratory and identify different stages of cell division.V- Semest er (VI- Paper)Plant Ecology and PhytogeographyCO1Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare modelsV- Paper)BOT-5BP Phytogeography- PracticalPlant Ecology and Phytogeography- Phytogeography- PracticalCO2Solve the problems related to crosses and gene interactions. CO3V- Paper)BOT-5BP Phytogeography- PracticalPlant Ecology and Phytogeography- PracticalCO1Learn about conservation of biodiversity.V- Paper)BOT- Phytogeography- PracticalCO2Discover botanical regions of India and vegetation types in Andhra Pradesh.VI- VI- Semest er PaperCO3Organic Farming and CO3CO1Get familiarized with techniques of section making, staining and microscopic study of vegetative, anatomical and reproductive structure of plants.CO4 VI- Sustainable erCO3Demonstrate application of methods in plant ecology and conservation of biodiversity and duraw exact diagrams of the material in the lab.CO3 CO3 CO4Demonstrate application on soil pollution, fertilizer pollution and	V-	BOT-5AP	Cell Biology, Genetics	CO1	Evaluate the structure, function and regulation of genetic
(V- Paper)Result is a set of the second sec	Semest		and Plant Breeding-		material.
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$1 $ $1^{-1}$ $1 $ $1 $ $1^{-1}$ $1^{-$	VI-	BOT-	Organic Farming and	CO1	Students know about the significance of organic farming,

Semest	6GE1P	Sustainable		organic manures and biofertilizers
	OGEIP		CO2	organic manures and biofertilizers.
er		Agriculture-Practical		Students learn about biogas technologies for organic farming waste, recycled use of water in organic farming and
				domestic and industrial wastes are used in organic farming
				system.
			CO3	Students get acquire knowledge in soil conservation, rules
			005	and regulations of commercialization of organic products.
			CO4	Initiative from Government for organic produce.
VI-	BOT-	Plant Diversity and	CO1	Role of NGOs in producing organic products.
Semest	6CE1	Human Welfare	CO2	Selection of crops and varieties for organic produce
er			CO3	Certification of organic produce.
			CO4	Develop understanding of the concept and scope of plant
				biodiversity
			CO5	Identify the causes and implications of loss of biodiversity
VI-	BOT-	Plant Diversity and	CO1	Apply skills to manage plant biodiversity
Semest	6CE1P	Human Welfare-	CO2	Utilize various strategies for the conservation of biodiversity
er		practical	CO3	Conceptualize the role of plants in human welfare with
				special reference to India.
			CO4	Mapping species diversity
			CO5	mapping of crop diversity
VI-	BOT-	Ethanobotany and	CO1	Visits of plant conservatories
Semest	6CE2	Medicinal botany	CO2	study of wood features
er			CO3	Herbarium study of a.Avenuetrees,b) Ornamental plantsc
				Fruits and nuts: Important fruit crops. Wood
			CO4	Recognize the basic medicinal plants
			CO5	Apply techniques of conservation and propagation of
				medicinal plants.
			CO6	Setup process of harvesting, drying and storage of medicinal
			007	herbs
			CO7	Propose new strategies to enhance growth of medicinal herbs
			COS	considering the practical issues pertinent to India
VI-	BOT-	Ethanobotany and	CO8 CO1	Conceptualize ethnobotany as an interdisciplinary science. Restate the established methodology of ethnobotany studies.
Semest	6CE2P	Medicinal Botany-	CO1 CO2	Categories various indigenous ethnic groups and their
er	UCL21	Practical	02	environmental practices.
CI		Tactical	CO3	Understand the legalities associated with ethnobotany.
			CO4	Field work
			CO5	Herbarium
VI-	BOT-	Pharmacognosy and	C01	Ancient Literature
Semest	6CE3	Phytochemistry	CO2	Archaeological findings
er			CO3	temples and sacred places.
			CO4	Awareness about types of drugs and systems of medicine.
			CO5	Analyze the purity and strength of crude drugs.
VI-	BOT-	Pharmacognosy and	CO1	Identify the sources of drugs.
Semest	6CE3P	phytochemistry-	CO2	Apply the Identification and separation techniques to
er		Practicals		evaluate the medicinally important metabolites.
			CO3	Find any reference related to the theme
	BOT6C	Plant Tissue Culture	CO1	To Comprehend the basic knowledge and applications of
				plant tissue culture.
VI-				Demonstrate skills of callus culture through hands on
Semest				experience.
er				Understand the biotransformation technique for production
			~ ~ `	of secondary metabolites.
	BOT7C	Mushroom Cultivation	CO1	Understand the structure and life of a mushroom and
				discriminate edible and poisonous mushrooms.
				Explain the methods of storage, preparation of value-added
				products and marketing

				Demonstrate skills preparation of compost and spawn.
I-	SDC2S	Skill Development	CO1	Have presentation skills in terms of precise and contented,
Semest		Course (Plant		relevant presentation
er		Nursery)	CO2	Identify current perspectives related to the subject.
			CO3	Underrstand the importance of a plant nursery and basic
				infrastructure to establish it
			CO4	Explain the basic material, tools and techniques required for
				nursery
II-	SDC225	Skill Development	CO1	Demonstrate expertise related to various practices in a
Semest		Course (Fruits and		nursery
er		Vegetables	CO2	Comprehend knowledge and skills to get an employment or
		Preservation)		to become an entrepreneur in plant nursery sector
			CO3	Identify various types of fruits and vegetables and explain
			004	their nutritive value.
			CO4	Understand the fragile nature of fruits and vegetables and
			<u> </u>	causes for their damage.
			CO5	Explain various methods of preservation for fresh fruits and
			CO6	vegetablesGet to know the value-added products made from fruits and
			00	vegetables.
I SEM	HSC 2011	Basic Nutrition (FN-	CO1	Understand the concepts of nutrition and food
1 52101	HSC 2012	1)	001	and its relation to health.
	HSC 2012	General Psychology	CO2	Selection of foods based on the nutrient composition for
		Fundamentals of		healthy and disease people.
		Textiles (TEX-1)	CO3	Identify signs and symptoms of different nutrient disorders
			CO1	Understand Psychological concepts like Attention,
				Perception, , Memory and Motivation.
			CO2	Observe different types of personalities
			CO3	Use theoretical perspectives to understand human behaviour
			CO1	Identify of different fibres like plant fibres, animal fibers
				based on properties
			CO2	Collection of different fabrics and gain knowledge about
				their seasonal usage
			CO3	Gains knowledge on manufacturing of different textile
IL CEM	1100 2021	Lature description to East		fibers.
II SEM	HSC 2021	Introduction to Food	CO1	Understands application of different processing techniques
		Science	CO2	in cookeryPlanning and preparation of nutritious recipes by using
				different foods
			CO3	Planning recipes of cereals and millets, pulses, Milk and
			005	Milk products, vegetables, fruits, nuts and oil seeds products
	HSC 2022	Housing for Better	CO1	Study of building materials and equipment
		Living	CO2	Requirements to purchase land, building materials protection
				and care of house
			CO3	Principles of planning a house with an emphasis on kitchen
				plans
	HSC 2023	Fundamentals of	CO1	Learn the meaning, scope and concept of Home Science
		Home Science		Extension
		Extension (EXT-1)	CO2	Know the importance of Teaching Methods and Teaching
				Aids in Communication Process
			CO3	Understand the role Extension worker in community
III	HSC1931	Food Science	CO1	To impart basic knowledge about the composition of various
SEM				food stuffs and their products.
			CO2	To understand the advantages and disadvantages of various
				cooking methods.
			CO3	To know the miscellaneous food products available in the
				market.

	HSC1932	Natural fibers	C01	To know different Natural Fibers
			CO2	To Understand about fiber- staple, filament
			CO3	To learnYarn formation and its importance and kinds of
				natural yarns
	HSC1933	Housing for Better	CO1	To introduce basic terminology regarding housing.
		Family living	CO2	To train the students to have a comprehensive knowledge of
				planning and designing kitchens,
				storage areas and home altogether.
			CO3	To impart knowledge regarding various household equipment
IV	HSC 1941	Family Nutrition	CO1	To understand the influence of socio- economic and socio-
SEM				cultural factors and food fads and
				fallacies on food choices.
			CO2	To gain awareness on planning diets for persons of different
				age groups
			CO3	To impart basic knowledge about physiological changes
				during pregnancy and lactation and plan
			<b>G</b> 0 1	diets accordingly
	HSC 1942	Manmade fibers	CO1	To gain basic knowledge about manmade fibers
			CO2	To understand the process of fabric construction
	11001040		CO3	To know about care of clothing
	HSC 1943	Interior Decoration	CO1	To understand the elements and principles of Design
			CO2	To learn the importance of art elements in room
			<u> </u>	arrangements
			CO3	To learn the application of art principles in beautifying various rooms
V SEM	HSC 5.1	Child Rights &	CO1	To know about the importance of Child Rights
V SEIVI	пъс 5.1	Gender Justice	CO1 CO2	To know problems of women faced at working place
	HSC 5.2	Fabric Embellishment	C02 C01	To acquaint students with different methods of Fabric
	115C J.2		COI	finishing
			CO2	To develop awareness and appreciation of fabric
			002	embellishment
			CO3	To make them understand the prestige of traditional Indian
				Textiles and embroidery
	HSC 5.3	Family Resource	CO1	To gain input of knowledge on concepts related to resource
		Management		management
			CO2	To acquire the students with managerial skills
			CO3	To learn room arrangements for different occasions
	HSC 5.4	Human Development	CO1	Gain knowledge about concepts, Domains related to Human
				Development
			CO2	Study developments from Conception till Old Age in brief
	HSC 5.5	Community Nutrition	CO1	The major nutritional problems existing in India – causes,
				effects, prevention and control measures
			CO2	Various national nutritional programmes existing in India to
				combat malnutrition.
			CO3	Role of national and international agencies in improving the
				nutritional status of population
	HSC 5.6	Home science	CO1	Understand the Principles, steps in Teaching and Learning
		Extension Education	000	process
			CO2	Learn Practical skills in planning, preparation of Audio- Visual Aids
			<u> </u>	
1/I	HSC 61G	Eamily Dynamics	CO3	The importance of Extension Education in Home Science
VI SEM	010 Jan	Family Dynamics	CO1 CO2	Understand different concepts related to marriageKnow the need and importance of premarital, marital and
SENI				family counseling.
			CO3	To know different types of Parenting Styles
	HSC	Tie &Dye	C03	To Learn different processing methods of dying
	1150			1.5 Louin anterent processing methods of dying

	6202		CO2	To know the techniques of Tie & Dye
	62G2		CO2	To know the techniques of Tie & Dye
		Heme D.	CO3	To learn the terminology of Tie & Dye
	HSC 63G	Home Economics	CO1	Understand the terminology related to home economics
			CO2	Gain knowledge regarding methods and mode of money management
			CO3	Equip with the fundamental concepts to become a wise
				consumer
	HSC 61E	Early Child hood Care	CO1	To enable the students to understand the significance of
		and Education		Early child hood
			CO2	To equip them with skills essential to pre- school teacher
			CO3	To equip them with knowledge to cater to the needs of children with special needs
	HSC 62E	Medical Nutrition	CO1	To Know the role and responsibilities of a dietician
		Therapy	CO2	To Understand the modifications of the normal diet in to the
		r J		therapeutic diet
			CO3	To be aware of the effect of various diseases on nutritional
				status and nutrients
	HSC 63E	Home Science	CO1	To explore the students to different teaching methods.
		Extension &	CO2	To acquaint them with the concept of non-governmental
		Community		organizations
		Development	CO3	To get them learn the lesson planning techniques
			CO4	To introduce them to the basic elements of programme
				planning.
				understandthedifferencebetweenanoperatingsystemandanapp
			CO1	licationprogram, and what each is used in computer
			CO2	Applystandardstatisticalinferenceprocedurestodrawconclusio
ISEM	COM2014	InformationTechnolog y		nsfromdata
				Analyze compression techniques and file formats
			CO3	todetermineeffectivewaysofsecuring, managing, and
				transferringdata
			CO 4	Working in 'Outside Syllabus Area' under a Co-
			CO4	curricularActivity (Creativity) Design, implement, and
				evaluate acomputing- basedsolutiontomeetagivensetofcomputingrequirement
			CO5	EfficientlylearnanduseMicrosoftOfficeapplications
				understandthedifferencebetweenanoperatingsystemandanapp
		InformationTechnolog	CO1	licationprogram, and what each is used for.
		yPracticals	CO1 CO2	Applystandardstatisticalinferenceprocedurestodrawconclusio
				nsfromdata
				Analyzecompressiontechniquesandfileformatsto
			CO3	determineeffectivewaysofsecuring, managing, and transferring
				data
				Working in 'Outside Syllabus Area' under a Co-
			CO4	curricularActivity (Creativity) Design, implement, and
				evaluate acomputing-
				basedsolutiontomeetagivensetofcomputingrequirement
			CO5	EfficientlylearnanduseMicrosoftOfficeapplications
			CO5	Articulatenewmodelsofbusinessorganizations.
			CO1	UnderstandthefoundationsandimportanceofE-
			CO2	Commerce RecognizeenddiscussglobalE.commerceissues
			CO2 CO3	RecognizeanddiscussglobalE-commerceissues AnalyzetheimpactofE-
II SEM			005	commerceonbusinessmodelsandstrategy
	COM2024	E-	CO4	Designand/orcollectsitecontent
		CommerceAndWebD	0.04	Buildasitebasedonthedesigndecisionsandprogressivelyincorp
		esigning	CO5	oratetoolsandtechniquescovered:
			C03	Remembertheinternetrelatedconceptsthatarevitalinunderstan
				Remember the metre acceler of the promiting of the metre acceler of the

	<u> </u>	Т	T	dingwahdavalanmant
		Г		dingwebdevelopment
	0010004	E-	CO2	Understandtheimportanthtmltagsfordesigningstaticpages
	COM2024	CommerceAndWebDes	CO3	Designanddevelopwebpagesusingcssstyles
	Р	igningPracticals	CO4	Developinteractivewebapplicationsthroughloadingusinghtml css
				Translatethealgorithmstoprograms.
III	COM1934	Office Automation	CO1	Alsoneedtotestandexecuteprograms.
SEM		Tools		Toapplyandimplementconditional
l				branching, iterationstatements
			CO2	understandandapplyfunctionsincandrecursion
			CO3	understandpointersanddynamicmemoryallocation
			CO4	Understandandimplementtheconceptofarraysand
				strings
				Use file mangers, word processors, spreadsheets,
			CO1	presentation software's
			CO2	Describe the features and functions of the categories of
	COM1934	Office Automation	-	application software.
	Р	Tools Practical	CO3	Present conclusions effectively, orally and in writing.
			CO4	Understand the dynamics of an office environment.
 				To recognize, understand and apply the language, theory and
			CO1	models of the field of business analytics.
			CO1 CO2	to critically analyze, synthesize and solve complex
				unstructured business problems.
	COM1945	Buissiness Analytics	CO3	Encourage an aptitude for business improvement, innovation
		BUISSINGSS Analytics	05	and entrepreneurial action
			CO4	
			C04	Instill a sense of ethical decision-making and a commitment to the long-run welfare of both organizations and the
IV				to the long-run welfare of both organizations and the
SEM		<u> </u>	<b> </b>	communities they serve
			CO1	Understand and critically apply the concepts and methods of
			CO1	business analytics
	CON 110/5	D · · A ·· - letting	CO2	Identify, model and solve decision problems in different
	COM1945	Buissiness Analytics		settings
	Р	Practical	CO3	Interpret results/solutions and identify appropriate courses of
				action for a given managerial situation whether a problem or
				an opportunity
			CO4	Create viable solutions to decision making problems
			~~~1	Translatethealgorithmstoprograms.
			CO1	Alsoneedtotestandexecuteprograms.
				Toapplyandimplementconditionalbranching,
				iterationstatements
VSEM	BCO5F	ProgrammingInC	CO2	understandandapplyfunctionsincandrecursion
			CO3	understandpointersanddynamicmemoryallocation
			CO4	Understandandimplementtheconceptofarraysand
				strings
				Translatethealgorithmstoprograms.
			CO1	AlsoneedtotestandExecuteprograms.
				Toapplyandimplementconditionalbranching,
				iterationstatements
V SEM	BCO5F-P	ProgrammingInC	CO2	understandandapplyfunctionsincandrecursion
		Practicals	CO3	understandpointersanddynamicmemoryallocation
			CO4	Understandandimplementtheconceptofarraysand
				strings
			CO1	Understanddbmsconcepts
			CO2	Recallfilesystemsandcomparewithdbmsapproach
v	BCO5H		CO2	UnderstandERmodelandEETmodeling
v SEM	Decon	DatabaseMamangeme	CO3	ApplySQLcommands
DLIVE		ntSystem	C04 C05	UnderstandPL/SQLprogrammingconcepts
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	<del></del>			
		1	CO1	ExecuteConsolidatedBalanceSheetofHoldingCompany.
		1	CO2	Understanddbmsconcepts
VODM	DOGUD	1	CO3	Recallfilesystemsandcomparewithdbmsapproach
V SEM	BCO5H-P	D ( 1 Mamanaama	CO4	UnderstandERmodelandEETmodeling
		DatabaseMamangeme	C05	ApplySQLcommands
	<b> </b>	ntSystemPracticals	CO6	UnderstandPl/SQLprogrammingconcepts
		,	CO1	Understandbasicconceptsofinternet
			CO2	Understandthebasichtmltags, formattingtags.
VSEM	BCO5I	WebTechnology	CO3	Understandtheforms, frames.csssheets
		,	CO4	Understandtheinteractiveweb pages
			CO5	Understandrolloverbuttons
			CO1	implementhtmltags
		1	CO2	Designtablesandlistsusinghtmltags
VSEM	BCO5I-P	WebTechnologyPracti	CO3	designformsandframesusinghtmltags
		cals	CO4	designinteractiveweb pages
		1	CO5	developweb pagesusingrolloverbuttons
		,		Summarize the.concept of Tally.wrp9, it's features,
		1	CO1	Accountingintallyandit'sapplications.
		1		Workingwiththegivenproblem
		1	CO2	UnderstandtheinventoryinTally.erp9anditsapplications.worki
		1		ngwiththegivenproblem
VI	TY6CE	Tally	CO3	Relate the concept of GST and GST intally.erp9 and it's Applicatio
SEM		1		n.Workingwiththegivenproblem
		1	CO4	UnderstandTDSintally.erp9anditsusage.workingwiththegive
		1		nproblem
		,	CO5	Summarizepayrollheads, it's applications in Tally.erp9. Workin
		1		gwiththegivenproblem
		+ + + + + + + + + + + + + + + + + + + +		Summarize the. Concept of Tally.wrp9, it's
		1	CO1	features, accounting intally and it's applications.
VI	TY6CE-P	TallyPracticals		Workingwiththegivenproblem
SEM		1	CO2	UnderstandtheinventoryinTally.erp9anditsapplications.worki
		1		ngwiththegivenproblem
		1	CO3	Relate the concept of GST and GST intally.erp9 and it's Applicatio
		1		n.Workingwiththegivenproblem
		1	CO4	UnderstandTDSintally.erp9anditsusage.workingwiththegive
I		1		nproblem
		1	CO5	Summarizepayrollheads, it's applications in Tally.erp9. Work in
		1		gwiththegivenproblem
			CO1	Defineanatomyofe-commerce
		1	CO2	UnderstandcomponentsofI-way
	EC6CE	E-Commerce	CO3	understandclient/servernetworksecurity
		,	CO4	Understandconsumerorientede-commerce
		1	CO5	UnderstandE-SCM
		/	CO1	Understandanatomyofe-commerce
		1	CO2	UnderstandcomponentsofI-way
	EC6CE-P	E-	CO3	understandclient/servernetworksecurity
		CommercePracticals	CO4	Understandconsumerorientede-commerce
			CO5	UnderstandE-SCM
		, 	CO1	Recallthebasicconceptsofprogrammingconcepts
		,	CO2	Understandfunctions, classes, stringsinphp
		,	CO2	Designanddevelopinteractiveweb pagesusingphpcode
			C03	RecallSQLconceptsandrelateittoMYSQL
		,	C04 C05	Designanddevelopamediumsizesoftwareapplicationbyconnec
		1		tingtoadatabase
	CS6CE	Php& My Sql		tiligtoauatabase
		1 mpoor	CO1	Recallthebasicconceptsofprogrammingconcepts
		Php& My	CO2	Understandfunctions, classes, stringsinphp
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BSc         CO1         Developprogrammingskillsusingthefundamentulandbusksofe language           I SEM         CSC201         ProblemSolvingtnC:         CO         Developprogramsusingthebasicelementslikecontrolstatement (CO3         Developprogramsusingthebasicelementslikecontrolstatement (CO4         Developprogramsusingthebasicelementslikecontrolstatement (CO4         Developprogramsusingthebasicelementslikecontrolstatement (CO4         Developprogramsusingthebasicelementslikecontrolstatement (CO4         Developprogramsusingthebasicelementslikecontrolstatement (CO4         Developprogramsusingthebasicelementslikecontrolstatement (CO4         Developprogramsusingthebasicelementslikecontrolstatement (CO4         Developprogramsusingthebasicelementslikecontrolstatement (CO4         Developprogramsusingthebasicelementslikecontrolstatementslikecontrolstatement (CO4         Developprogramsusi		CS6CE-P		CO5	
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1 SEM     CSC201     ProblemSolvingInC     CO3     Developprogramusingaraysandstrings       CO4     Enableeffectiveusageofarrays,structures,functionsandpointer s     CO5     Implementfilesandcommandlikerguments       CO5     Implementfilesandcommandlikerguments     CO1     Developprogramusingubbasicelementslikecontrolstatement       CSC201P     ProblemSolvingInCP racticals     CO1     Developprogramsusingubbasicelementslikecontrolstatement       CO3     Developprogramsusingubbasicelementslikecontrolstatement     CO3     Developprogramsusingutbasicelementslikecontrolstatement       CSC201P     ProblemSolvingInCP racticals     CO1     UnderstandavailableDataStructures.functionsandpointer s       CSC202P     DataStructuresUsinCP     CO3     Developprogramsusingutronsdatastructures ing.       CSC202P     DataStructuresUsinCP     CO3     Developabilitytoimplementdilearguinationsofalgorithmsforsorting,patternmate hingete       III SEM     CSC202P     DataStructuresUsinCP     CO3     DevelopabilitytoimplementdifferentSortingandSearchmetho ds       CSC202P     DataStructuresUsinCP     CO3     DevelopabilitytoimplementdifferentSortingandSearchmetho ds       III SEM     CSC202P     DataStructuresUsinCP     CO3     DevelopabilitytoimplementdifferentSortingandSearchmetho ds       CSC202P     DataStructuresUsinP     CO3     DevelopabilitytoimplementdifferentSortingandSearchmetho ds       CSC203P	DCo				
1 SEM     CSC201     ProblemSolvingInC     CO4     Enableeffectiveusageofarrays,structures,functionsandpointers s       1 SEM     CSC201P     ProblemSolvingInC     CO4     Enableeffectiveusageofarrays,structures,functionsandpointer s       CSC201P     ProblemSolvingInC     CO5     Implementfilesandcommandlikearguments       CO5     Developprogramsusingthebasicelementslikecontrolstatement       CO3     Developprogramsusingthebasicelementslikecontrolstatement       CO3     Developprogramsusingthebasicelementslikecontrolstatement       CO4     Enableeffectiveusageofarrays,structures,functionsandpointer racticals       CO5     Implementfilesandcommandlikearguments       CO6     Implementfilesandcommandlikearguments       CO6     InderstandavailableDataStructuresfordatastorageandProcess ing.       CO7     DataStructuresUsinC       CO6     Designanddevelopprogramsusingvariousdatastructures       CO6     Inglementfilesandcomptorgamsusingvariousdatastructures       CO7     DataStructures     CO6       CSC202P     DataStructures     CO1     UnderstandavailableDataStructuresfordatastorageandProcess ing.       CSC202P     DataStructures     CO2     Stack,Qeuei_LinkedLisi,TreesandGraph       CSC202P     DataStructures     CO3     Developabilitytoimplementidigerithmsforsorting,pattermatic hingetic       CSC202P     DataStructures     CO4 <td>DOU</td> <td></td> <td></td> <td></td> <td></td>	DOU				
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II SEM         ESC202         DataStructuresUsinCP         ComprehendDataStructureandtheirreal-timeapplications- Stack,Queue,LinkedList,TreesandGraph           II SEM         ESC202         DataStructuresUsinCP         COI         DevelopabilitytoimplementdifferentSortingandSearchmetho ds           II SEM         ESC202         DataStructuresUsinCP         COI         DevelopabilitytoimplementdifferentSortingandSearchmetho ds           II SEM         Fragmenttheapplicationsofalgorithmsforsorting.patternmatc hingetc         Implementtheapplicationsofalgorithmsforsorting.patternmatc hingetc           II SEM         Fragmenttheapplicationsofalgorithmsforsorting.patternmatc hingetc         CongrehenDataStructuresfordatastorageandProcess ing.           CSC202P         DataStructures         COI         DevelopabilitytoimplementdifferentSortingandSearchmetho ds           CSC202P         DataStructures         COI         DevelopabilitytoimplementdifferentSortingandSearchmetho ds           CSC202P         DataStructures         COI         Implementtheapplicationsofalgorithmsforsorting.patternmatc hingetc           SEM         CSC1930         Programming Using Java         Recall the fundamentals of programming such asvariables, conditionalstatementsanditerativestatements           CO1         Object Oriented Programming Using Java         Recall the fundamentals of programming such asvariables, conditionalstatementsanditerativestatements           CO2         Understandfiles					
II SEM         CSC202         DataStructuresUsingC         ComprehendDataStructureandtheirreal-timeapplications- CO2         Stack.Queue,LinkedList,TreesandGraph           CO3         DevelopabilitytoimplementdifferentSortingandSearchmetho ds         CO4         Designanddevelopprogramsusingvariousdatastructures           CO4         Designanddevelopprogramsusingvariousdatastructures         CO5         Implementtheapplicationsofalgorithmsforsorting.patternmate hingetc           CV04         UnderstandavailableDataStructuresfordatastorageandProcess ing.         CO61         UnderstandavailableDataStructuresfordatastorageandProcess ing.           CV05         DataStructures         CO3         DevelopabilitytoimplementdifferentSortingandSearchmetho ds           CV05         DataStructures         CO4         Designanddevelopprogramsusingvariousdatastructures           CV06         DevelopabilitytoimplementdifferentSortingandSearchmetho ds         CO4           CV07         DevelopabilitytoimplementdifferentSortingandSearchmetho ds         CO4           CV06         Implementheapplicationsofalgorithmsforsorting.patternmatc hingetc         CO4           Recall the fundamentals of programming such asvariables, CO1         conditionalstatementsanditerativestatements           CO2         Understandfleesindava         CO4         Analyzetheconceptofappletprogramming.graphicsprogramming.graphicsprogramming           Java         CO5				C01	
II SEM         CSC202         DataStructuresUsingC         CO2         Stack,Queue,LinkedList,TreesandGraph           CO3         DevelopabilitytoimplementdifferentSortingandSearchmetho         CO3         DevelopabilitytoimplementdifferentSortingandSearchmetho           L         CO4         Designanddevelopprogramsusingvariousdatastructures         CO4         Designanddevelopprogramsusingvariousdatastructures           L         CO4         Designanddevelopprogramsusingvariousdatastructures         CO4         Designanddevelopprogramsusingvariousdatastructures           L         CO4         Designanddevelopprogramsusingvariousdatastructures         CO4         Designandevelopprogramsusingvariousdatastructures           CSC202P         DataStructures         CO4         Designanddevelopprogramsusingvariousdatastructures           UsingC Practicals         CO4         Designanddevelopprogramsusingvariousdatastructures           CSC202P         DataStructures         CO4         Designanddevelopprogramsusingvariousdatastructures           UsingC Practicals         CO4         Designanddevelopprogramsusingvariousdatastructures           CO1         Co4         Designanddevelopprogramsusingvariousdatastructures           CO2         Understandtheconceptsofclasses, objects.         CO1           CO3         understandpackagesandinterfacesinjava         CO4           SEX	I				
II SEM         CSC202         DataStructuresUsingC         CO3         DevelopabilitytoimplementdifferentSortingandSearchmetho ds           II SEM         CSC202         DataStructuresUsingC         CO4         Designanddevelopprogramsusingvariousdatastructures           II SEM         CSC4         Designanddevelopprogramsusingvariousdatastructures         Linglementheapplicationsofalgorithmsforsorting, patternmatc hingetc           II SEM         Free Programming Programsusingvariousdatastructures         CO4         UnderstandavailableDataStructuresfordatastorageandProcess ing.           CSC202P         DataStructures         CO3         CO5         Stack.Queue,LinkedList,TreesandGraph           CO3         DevelopabilitytoimplementdifferentSortingandSearchmetho ds         CO4         Designanddevelopprogramsusingvariousdatastructures           CSC202P         DataStructures         CO5         Implementheapplicationsofalgorithmsforsorting,patternmatc hingetc           III         SEM         Object Oriented         CO5         Inderstandpackagesandinterfacesinjava           CO4         Analyzetheconceptofalpelptorgramming such asvariables, CO3         understandfilesinJava           SEM         Object Oriented         CO4         Analyzetheconceptofalpelptorgramming. graphicsprogramming           Java         CO5         understandfilesinJava         Recall the fundamentals of programming such asvariables, CO3 <td>l</td> <td></td> <td></td> <td>~~~~</td> <td></td>	l			~~~~	
II SEM       CSC202       DataStructuresUsingC       ds       ds       CV1       Designanddevelopprogramsusingvariousdatastructures         CO4       Designanddevelopprogramsusingvariousdatastructures       CO5       Implementtheapplicationsofalgorithmsforsorting,patternmate hingetc         CV04       UnderstandavailableDataStructuresfordatastorageandProcess ing.       CO02       Stack,Queue,LinkedList,TreesandGraph         CV02       Stack,Queue,LinkedList,TreesandGraph       CO4       Designanddevelopprogramsusingvariousdatastructures         CSC202P       DataStructures       CO4       Designanddevelopprogramsusingvariousdatastructures         UsingC Practicals       CO4       Designanddevelopprogramsusingvariousdatastructures         UsingC Practicals       CO4       Designanddevelopprogramsusingvariousdatastructures         UsingC Practicals       CO4       Designanddevelopprogramsusingvariousdatastructures         CO5       Implementtheapplicationsofalgorithmsforsorting,pattermmate hingetc       Recall the fundamentals of programming such asvariables, CO1         CO1       conditionalstatementsanditerativestatements       CO2       UnderstandfleesinJava         SEM       CSC193       Object Oriented       CO4       Analyzetheconceptofappletprogramming such asvariables, CO1       conditionalstatementsanditerativestatements         GC2       UnderstandfleesinJava       CO3	l				-
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IV     CSC194     Data Structures Using     structures       SEM     Java     CO3     UnderstandtheconceptsofstacksandQueues	l				
SEM   Java   CO3   UnderstandtheconceptsofstacksandQueues	l			CO <sub>2</sub>	understandimplementationconceptsoflinearandnonlineardata
		CSC194	e		
CO4 Understandtheconceptsoftreesandgraphs	SEM		Java		
	Ĺ			CO4	Understandtheconceptsoftreesandgraphs

			CO5	applydifferentsortingandsearchingalgorithms
			C03	developskillstoanalyzesimplelinearandlineardatastructures
			CO1 CO2	implementstacksandqueues
	CSC194P	Data Structures Using	CO2 CO3	understandalgorithmsoftrees
		Java Practicals	CO3	understandgraphtraversal
		suvu i iucilcuis	C04	writeprogramsfordifferentsortingtechniques
			C03	Understanddbmsconcepts
			CO1 CO2	Recallfilesystemsandcomparewithdbmsapproach
V SEM	CSC5A	Database Management	CO2 CO3	UnderstandERmodelandEETmodeling
V SLIVI	CSCSA	Systems	CO3	ApplySQLcommands
		5 ystems	C04	UnderstandPL/SQLprogrammingconcepts
			C03	Understanddbmsconcepts
			CO1 CO2	Recallfilesystemsandcomparewithdbmsapproach
	CSC5A-P	Database Management	CO2 CO3	UnderstandERmodelandEETmodelling
	CSCJA-I	Systems Practicals		<u> </u>
		Systems Flacticals	CO4	ApplySQLcommands
			CO5	UnderstandPL/SQLprogrammingconcepts
			CO1	BasicknowledgeandunderstandingoftheanalysisandDesignof
	CSC5B	Software Engineering	CO2	complexsystems.
	CSCJD	Software Engineering	02	produceefficient, reliable, robust and cost-effective Software solutions.
			CO3	
			005	communicateandcoordinatecompetentlybylistening,speaking, readingandwritingEnglishfortechnicalandGeneralpurposes.
			CO4	manage time, processes and resources effectively
			04	byprioritizingcompetingdemandstoachievepersonalandteamg
				oalsIdentifyandanalyzesthecommonthreatsinEachdomain.
			CO5	AbilitytounderstandandmeetethicalstandardsandlegalRespon
			005	sibilities.
			CO1	BasicknowledgeandunderstandingoftheanalysisandDesignof
			COI	complexsystems.
	CSC5B-P	Software Engineering	CO2	produceefficient,reliable,robustandcost-effective
		Practicals	002	Softwaresolutions.
			CO3	communicateandcoordinatecompetentlybylistening,speaking,
			005	readingandwritingEnglishfortechnicalandGeneralpurposes.
			CO4	manage time, processes and resources effectively
			001	byprioritizingcompetingdemandstoachievepersonalandteamg
				oalsIdentifyandanalyzesthecommonthreatsinEachdomain.
			CO1	Understandbasicconceptsofinternet
			CO2	Understandthebasichtmltags, formattingtags.
			CO3	Understandtheforms, frames.csssheets
	CSC6GE1	Web Technologies	CO4	Understandtheinteractiveweb pages
			CO5	Understandrolloverbuttons
			CO1	implementhtmltags
			CO2	Designtablesandlistsusinghtmltags
	CSC6GE1	Web Technologies	CO3	designformsandframesusinghtmltags
	-P	Practicals	CO4	designinteractiveweb pages
VI			CO5	developweb pagesusingrolloverbuttons
SEM			CO1	To demonstrate proficiency with statistical analysis of data.
			CO2	develop the ability to build and assess data-based models
			CO3	execute statistical analyses with professional statistical
	CSC6CE1	Foundations Of Data	000	software
		Science	CO4	Demonstrate skill in data management.
			CO5	To explore, sort and analyze mega data from various sources
				in order to take advantage of them and reach conclusions to
				optimize business processes or for decision support.
			CO1	Download and install R and RStudio.
			CO2	Navigate and optimize the R integrated development
			001	environment (IDE) RStudio.

	CSC6CE1	Foundations Of Data	CO3	Install and load add-in packages.
	-P	Science Practicals	CO4	Import external data into R for data processing and statistical
				analysis.
			CO5	Learn the main R data structures – vector and data frame.
				compute basic summary statistics
			CO1	IdentifyBigdataanditsbusinessapplications
			CO2	DeveloponwritingAPI'sUSINGJAVA,managejobexecutionin
				HADOOPEnvironment
	CSC6CE2	Big Data	CO3	demonstrateBig datasolutionsusingHADOOP-
		Technologies		ECOsystemcomponents
			CO4	applymachinelearningtechniquesusingR
			CO5	applymachinelearningtechniquesusingR
			CO1	IdentifyBigdataanditsbusinessapplications
			CO2	DeveloponwritingAPI'sUSINGJAVA,managejobexecutionin
				HADOOPEnvironment
	CSC6CE2	Big Data	CO3	demonstrateBig datasolutionsusingHADOOP-
	-P	Technologies		ECOsystemcomponents
		Practicals	CO4	applymachinelearningtechniquesusingR
			CO5	applymachinelearningtechniquesusingR
			CO1	Plan, analyze,
	CSC6CE3	Project Work		designasoftwareprojectanddemonstratetheabilitytocommunic
				ateeffectivelyinspeechandwriting
			CO2	Introducethemajorsoftwareengineeringconceptsandpositionth
				emtoleadmediumsizedsoftwareprojects
			CO3	Understanddifferentsoftwaredevelopmentprocess.
			CO4	Gainconfidenceindevelopingasmallsizedsoftwareproject
			CO5	Plan, analyze,
				designasoftwareprojectanddemonstratetheabilitytocommunic
				ateeffectivelyinspeechandwriting
	CSC6C	Web Interface	CO1	Understand and appreciate the web architecture and services.
		Designing		Gain knowledge about various components of a website.
VISE		Technologies		Demonstrate skills regarding creation of a static website and
М				an interface to dynamic website.
				Learn how to install word press and gain the knowledge of
				installing various plugins to use in their websites.
	CSC7C	Web Applications	CO1	Write simple programs in PHP.
		Development using		Understand how to use regular expressions, handle
		PHP & MYSQL		exceptions, and validate data using PHP
				Apply In-Built functions and Create User defined functions
				in PHP programming.
				Write PHP scripts to handle HTML forms.
				Write programs to create dynamic and interactive web based applications using PHP and MYSQL
			CO1	Describethenatureofeconomicsindealingwiththeissuesofscarc
				ityofresources
ISEM	ECO201	Economics Paper :- I	CO2	Analyzesupplyanddemandanalysisanditsimpactonconsumerb
		Micro Economic		ehaviour.
		Analysis	CO3	Evaluatethefactors, such as production and costs affecting firms b
				ehaviour
			CO4	Analyze Classification of Markets and - Price and output
				determination - Selling Costs
			CO5	Explain Marginal Productivity Theory of Distribution,
				Theories of Wage Determination, Theory of Rent
			1	To able to understand National Income: Definitions,
			CO1	Concepts, Measurement of National Income - Difficulties -
				Importance - Concept of Green Accounting
			CO2	UnderstandingmainFunctionsClassical Theory of
	1		1	6
				Employment - Say's Law of Markets Keynesian Theory of

IISEM	ECO201	Economics Paper :- II		Employment - Consumption Function Investment Function:
IISEWI		Macro Economic	CO3	To able to understand Definitions of Money Concepts of
		Analysis	005	Money, RBI classification of Money Definition and types
		rmary 515		of Banking,
			CO4	To able to understand What is Inflation Measurement of
			04	Inflation, Measures to Control Inflation. Trade Cycles:
				Phases of a Trade Cycle -Causes and Measures to control
				Trade Cycles
			CO5	To able to Understand Financial Assets and Financial
			005	Instruments, Financial Markets Stock Market Exchanges
				Concept of Insurance -Types and Importance of Insurance
			CO1	To make students to understand Macro Economics Meaning
			COI	and Definitions and circular flow of Income
			CO2	To able to understand National Income: Definitions,
			02	Concepts, Measurement of National Income, Social
IIISEM	ECO193	Economics		Accounting
moLivi	LCOIDS	Paper :- III	CO3	ExplainClassical Theory of Employment, and Keynes output
			005	and employment theory
		Macro Economics	CO4	To make Students to understand Consumption function
				Consumption Function and Theories Investment Marginal
				efficiency of capital
			CO5	To able to understand Meaning and Definitions of Trade
			005	Cycles & Phases Causes and Consequences of Trade Cycles
			CO1	To able to understand Meaning of Money Functions of
			COI	Money Classifications of Money
			CO2	To able to understand Transaction &Cash Balance
IVSE	ECO 194	EconomicsPaper :- IV		approaches
M	LCOIDT	Leononnesi aper 1V	CO3	To able to understand Types Causes and effects of inflation
111		Macro Economics	005	Measures to control inflation
				To able to understand Banking System Meaning & types of
			CO4	commercial Banks, Function of Commercial banks
			C04	To able to understand Functions, importance of stock Market
			005	, primary Secondary Markets, Insurance: Types of Insurance
			CO1	Analysedifferentsources of Basic features, Natural
			001	Resources Land, Water and Forest Resources, Basic
				Demographic Features.
V Sem	ECO5A		CO2	Too able to understand Size and growth of the population,
v Sem	LCOM			Age and sex Composition, Rural& Urban Population,
		Economics Paper :- IV		Occupational Distribution
		Indian Economy&	CO3	To able to understand National Income in India, Trends&
		Economic		Composition Poverty, inequalities, Unemployement Causes
		Development		& Consequence, A brief review of five years plans
		L	CO4	To able to understand Meaning of Economic Growth &
				Development Measures of Economic Development, GNP,
				PCL, PQL 1 and HD1
			CO5	To able to understand to Growth strategies Balanced and
				Unbalanced growth, Capital intensive methods
			CO1	To able to understand Nature& Importance, trends in
				Agriculture production & productivity, Green revolution
				Second Green revolution
V Sem	ECO5A		CO2	To able to understand Structure and growth of Indian
, som		Economics Paper :- V		Industry.Industrial policies of 1956,1991
		Indian Economy&	CO3	To able to understand New Economic Reforms: LPG,
		A.P. Economy		FERA, FEMA, GATT, WTO .
			CO4	To able to understand GSDP- Sectoral Contribution A.P.
				Agriculture, Trends in Human Resources
			CO5	To able to understand Special Economic Zones.Growth of
				To able to understand Special Leononne Zones.010win 01

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				Income & Employment in A.P - Service Sector
			<i></i>	To able to understand to Nature and Scope of Agricultural
			CO1	Economics. Factors affecting agricultural development:
				technological, institutional and general.
			CO2	To able to understand Concept of production function :
		Economics Paper :- VI		input-output and product relationship in farmProduction
VI Sem	ECO6GE1	Agricultural	CO3	Analyze to Growth and Strategies productivity trends in
		Economics		Indian agriculture with special reference to AndhraPradesh.
				Agrarian reforms and their role in economic development.
			CO4	Understand the Different Systems of farming, farm size and
				productivity relationship in Indian agriculture
			CO5	To able to understand Agriculture Business in
				India, Emerging trends in production, processing, marketing
				and exports; policy controls and regulations
			CO1	To able to understand Role of agriculture in development
				process in Andhra Pradesh vis-à-vis otherdeveloped states.
VI Sem			CO2	To able to understand Agricultural finance-importance in
	ECO6GE1	Economics Paper :-		modern agriculture
		VII	CO3	To able to understand Performance of allied sectores in AP
		Agribusiness		(horticulture, poultry dairy and fisheries)
		Environment in	CO4	To able to understand Growth performance of major
		Andhra Pradesh		agricultural commodities in Andhra Pradesh-production
			CO5	To able to understand Marketing policy- structure of agri
				markets – regulated markets – need – activities –structure
				To able to understand Agri input marketing – Meaning and
			CO1	importance – distinctive features of Agri.
VI Sem			CO2	To able to understand Agriculture seed Markers Issues in
	ECO6GE1	Economics Paper :-		seed marketing – determinants of seed demand
		VIII		To able to understand Agriculture Fertilizer Market
		Agricultural Input	CO3	Fertilizer industry scenario
		Marketing	CO4	To able to understand BIO Pesticide, Pesticide industry – an
				overview – nature of industry growth
			CO5	To able to understand Agricultural mechanization – benefits
				and importance and future priorities
				To able to understand Agriculture Marketing in India
			CO1	Structure and Model of Agri-Marketing Organizations with
				functions:
			CO2	To able to understand Problems and Challenges in
				Agriculture Marketing - Market Yards - Support prices -
				Rural Warehousing.
		Economics Paper :- IX		To able to understand Agriculture Marketing Finance
VI Sem	ECO6GE1	Agricultural Output	CO3	Marketing costs and margins, Marketing Structure of Major
		Marketing		agricultural commodities, food grains, Crops,.
			CO4	To able to understand State Intervention in Agricultural
				Marketing, Role of Various agencies State Department, and
				FCI, Tobacco Board, Cotton Corporation
			CO5	To able to understand WTO and Indian agriculture with
				special reference to Andhra Pradesh . Inter-regional and
				international trade in agriculture; emerging scenario of
				international
	ECO6C	Insurance Service	CO1	Explain the concept and principles of insurance service and
VI Sem				functioning of insurance service agencies;
				Identify and analyse the opportunities related insurance
				services in local rural area;
				Apply the concepts and principles of insurance to build a
				career in Insurance services;
				Demonstrate practical skills to enable them to start insurance service agency or earn wage employment in it.
L				mourance service agency of early wage employment in it.

	ECO7C	Banking and Financial	CO1	Explain the concept and essentials banking and financial
ļ	ECUIC	Banking and Financial Services		Explain the concept and essentials banking and financial services.
		SELVICES		. Identify and analyse the employment opportunities related
ļ				to banks and other financial institutions.
ļ				Apply the concepts to banking and financial opportunities
				and formulate ideas related to them
			CO1	To able to understand Business – Meaning and its
		Economics Paper :- II		importance in the economy
ISEM	BBA201	Managerial	CO2	To able to understand Meaning, Importance, Types of
BBA		Economics		Demand; Law of Demand; Elasticity of Demand:
			CO3	To able to understand Production function Concept of cost
ļ			~	of production; Cost function.
l			CO4	To able to understand Perfect Competition – Monopoly –
ļ				Monopolistic Competition – Oligopoly
ļ			CO5	To able to understand National Income, Concepts, Measure
				ments.
		Economics Paper :-	CO1	Describethenatureofeconomicsindealingwiththeissuesofscarc
IISEM	COM2021	IIBusiness Economics		ityofresources
B.CO			CO2	Analyzesupplyanddemandanalysisanditsimpactonconsumerb
М				ehaviour.
			CO3	Evaluate the factors, such as production and costs affecting firms b
				ehaviour
			CO4	RecognizeMarket Structure: Concept of Market,
				Classification of Markets, Perfect Competition
			CO5	To able to understand National Income, Concepts, Measure
				ments.
			CO1	To able to Understand Survey Methods, Types of Survey
_		Skill Development	CO2	To able to Understand Preparing questionnaire and
IISEM		Course		Maintaining objectivity/ neutrality
B.CO	SDC22A	Survey and Reporting	CO3	To able to Understand Methods of organizing data, Basic
М				Statistical methods of analysis of data
			CO1	Understanding about Indus civilization and Vedic culture.
			CO2	Our Rich Heritage and Culture Regarding different
1SEM	HIS201	HISTORY -1		Religions . Ashok Dharma
		Ancient Indian	CO3	Different Empires like SangamSatavahana and Pallavas and
		History & Culture		their conturbution to south India
		(from Indus Valley	CO4	Discribe about different conditions of Gupta period - golden
		Civilization to $13^{\text{th}}$		Era of Gupta dynasty – Navaratna
		Cen A.D.)	CO5	Discribe about Cholas and Kakatiyas Dynasties.
]	<u> </u>	+	CO1	Understanding about Turkish Invations – Slave Dynasty
		HISTORY – II	CO1	Contribution of saints of Bhakti and Sufi towards middle age
IISEM	HIS202	Medieval Indian		India
	11122	History & Culture	CO3	Discribe about Moghal Rulers and their Administration.
ļ		(1206 A.D. to 1764	CO4	Different conduction of Moughal Empire –downfall –
ļ		A.D.)		Maratas under Sivaji
1		,	CO5	Understanding about European settlement in India –
1			_	Carnatic wars
<del> </del>		HISTORY – III	CO1	Awareness of Establishment of Moughal Empire Shivaji and
1		Late Medieval &		Peshwas
		Colonial History of	CO2	Understanding about conditions of Moughal Era and
ļ		India (1526 to 1857 A.		disintegration
IIISEM	HIS193	D.)	CO3	Describe of European settlements and Anglo –French
1				conflict
ļ			CO4	Understanding about impact of Industrial Revolutions and
ļ				Land Revenue settlement.
I			CO5	Brief History of causes and Results of
1				Sypoymutiny
!	<u> </u>		<u> </u>	~Jpoj

		HISTORY – IV Social Reform	CO1	Understanding of Brahma Samaja ,various Social Religious
		Social Reform	<u> </u>	Reformers like JyotibaPhule,
IVSE	HIS194	Movement & Freedom Struggle	CO2	Awarness about India under Viceroys rule and establishment
	HI3194	Freedom Struggle $(1820 \text{ to } 1947 \text{ A } \text{D})$	<u> </u>	of I.N.C.
М		(1820 to 1947 A.D.)	CO3	Understanding about various Freedom Movements like
				Vandemataram Home role.
			CO4	Brief History of Freedom Struggle under Gandhi ji.
			C05	Awarness of Partition of India Integrity under SadarVallabhai Patel
VSEM		HISTORY – V (Age of Rationalism	CO1	Understanding about Geographical Discovers under Portugal navigators.
	HIS5A	and Humanism: the World between (15 <sup>th</sup>	CO2	Understading about Reformation Movement ,Protestant Movement and Counter Reformation Movement .
		to 18th Centuries)	CO3	Awaeness of Nation State and various Revoluations Like Glorious Revoluation
			CO4	Brief History of American Revolution 1776 and New world.
			C04	Brief History of French Revolution 1789 – Role of
				Philosophers
		HISTORY – VI	CO1	Understanding about KakatiyaDynasty, and Reddy Kingdom.
		History & Culture of	CO2	Awarness of VijayanagarEmpire,Sri Krishna Devaraya and
	HIS5B	Andhra Desa (from		Astadiggajas
		12th to 19th Century	CO3	Brief History of Kutb-shahis of Golconda and their various
		A.D)		conductions.
			CO4	Under standing about European settlement in Andhra and
				carnit wars.
			CO5	Understanding about impact of Industrial Revolution –
				Revolts – Sir Arthur cotton Thomas Monrow ,C.P.Brown.
VI		HISTORY – VII	CO1	Understanding about how and where Industrial Revolution
SEM		(History of Modern		occurred – its consequences
	HIS6GE1	Europe (from 19th century to 1945 A. D.)	CO2	Brief History of Unifications (Germany and Italy and its impact on Europe.
			CO3	Awarness of Russian Revolution 1917 and its impacts on
				Europe
			CO4	Emerging of World Wars I – Establishment of League of Nations.
			CO5	Emerging of World Wars II - Establishment of U.N.O.
I SEM	SDCIA	Skill Development (Tourism Guidance)	CO1	Students must know about Characteristics of tourism and Guidance
			CO2	To know about Characteristics of Guide – Training Institutions –Leadership Skills.
II SEM	LSC5	Life Skill course (Indian Culture and Science )	CO1	To know about Visa Passport – Route Map Accident and Death
			CO2	Students got More information about Different Religions like Buddhism and various Arts.
	HIS6C	Tourism and	CO1	Understand hospitality as a career
VI		Hospitality Services		Inculcate interpersonal skills
SEM		1 5		Develop the ability for multitasking and crisis management
				Understands the spirit of team work
	HIS7C	Tourism Guidance	CO1	Acquire tour guiding, operating and soft skills
		and Operating Skills		Understand different situations under which one has to work
				Cultivate cultural awareness and flexibility
				Understand and apply team spirit
Ι	ZOO 201	Animal Diversity I–	CO1	Describe general taxonomic rules on animalclassification
-		-	000	
-		Biology Of	CO2	Classify Protozoa to Coelenterata with taxonomickeys
-		Biology Of Nonchordates	CO2 CO3	Classify Protozoa to Coelenterata with taxonomickeys Classify Phylum Platy helmninthes to Annelida phylum
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1			CO4	Describe Phylum Arthropoda to Mollusca using examples
				and importance of insects andMolluscans
			CO5	Describe Echinodermata to Hemichordata with suitable
				examples and larval stages in relation to the phylogeny
II	ZOO 202	Animal Diversity II –	CO1	Describe general taxonomic rules on animal classification of
		Biology Of Chordates	~~~	chordates
			CO2	Classify Protochordata to Mammalia with taxonomickeys
			CO3	Understand Mammals with specific structuraladaptaions
			CO4	Understand the significance of dentition and
				evolutionarysignificance
			CO5	Understand the origin and evolutionary relationship of
тт	000000			different phylafrom Prochordata tomammalia.
II	SDC 23S	Dairy Techniques	CO1	Establish aDairyFarm with the knowledge of Dairy development in India
			CO2	1
			02	Classify the Indian Cattle breeds, exotic and Indian buffalo breeds.
			<u> </u>	
			CO3 CO4	Understand the Care and management of dairy animals
			CO4 CO5	Acquire the knowledge of Feed and Dairy Management
			05	Understand and apply the Safety precaution to prevent the accidents in an industry
III	Zoo 193	Cytology Genetics	CO1	Understand the basic unit of the living organisms and to
111	L00 195	and Evolution	COI	differentiate the organisms by their cell structure.
			CO2	Describe fine structure and function of plasma membrane
				and different cell organelles of eukaryoticcell.
			CO3	Understand the history of origin of branch of genetics, gain
				knowledge on heredity, interaction of genes, various types of
				inheritance patterns existing in animals
			CO4	Acquiring in-depth knowledge on various of aspects of
				genetics involved in sex determination, human karyotyping
I				and mutations of chromosomes resulting in various disorders
			CO5	Understand the principles and forces of evolution of life on
				earth, the process of evolution of new species and apply the
				same to develop new and advanced varieties of animals for
				the benefit of thesociety
IV	Zoo 194	Embryology	CO1	Describe the key events in early embryonic development
		Physiology and	_	starting from the formation of gametes up to gastrulation and
		Ecology		formation of primary germlayers.
			CO2	Describe the development and functions of different types of
				mammalian placenta.
			CO3	Understand the functions of important animal physiological
				systems including digestion, cardio-respiratory and
I				renalsystems.
			CO4	Understand the muscular system and the neuro-endocrine
I				regulation of animal growth, development and metabolism
I				with a special knowledge of hormonal control of
l				humanreproduction.
			CO5	Understand the importance and influence of abiotic factors
				and nutrient cycles on living beings.
			CO6	Know the components of the ecosystem and energy flow in
I				ecosystem
			CO7	Understand the community interactions, ecological
				succession and population ecology
V	Zoo 5A	Animal Biotechnology	CO1	Get familiar with the tools and techniques of
I				animalbiotechnology.
I			CO2	Understand the techniques of the recombinant DNA
I				Technology
I			CO3	Understand the Animal cell Technology including animal
I				cell/ tissue culture, Hybridoma technology stem cell
	·	-		-

				technology and geneticengineering
			CO4	Understand the reproductive Technologies and transgenic
			001	animals production and applications
			CO5	Understand the applications of Biotechnology in the fields of
				industry and agriculture
V	Zoo 5B	Animal Husbandry	CO1	Understand the field level structure and functioning of
v	200 JB	Annnai Husbanui y	COI	insurance sector and its role in protecting the risks
			CO2	Acquire knowledge about the Principles and Systems of
			02	
			<u> </u>	poultry housing.
			CO3	Understand Management of chicks, growers and layers and Broilers.
			CO4	learnabout Poultry feed management
			CO4	Describe the Poultry diseases – viral, bacterial, fungal and
			0.05	parasitic
			CO6	KnowtheSelection, care and handling of hatching eggs and
			000	Methods of hatching.
			CO7	Classify the Indian Cattle breeds, exotic and Indian buffalo
			007	breeds.
			CO8	Understand Care and management of dairy animals
VI	Z006	Immunology	CO1	Acquire knowledge about organs of Immune system, types
	GE1			of immunity, cells and organs of immunity.
			CO2	Describe immunological response as to how it is triggered
				(antigens) and regulated (antibodies)
			CO3	Understand the working of immune system
			CO4	Know the importance of immune system in health and
				disease
			CO5	Apply the knowledge of vaccines in day to day life in the
				field of Human health care, poultry, dairy and aquaculture
				industry.
VI	Z006	Principles of	CO1	Know the Basics of Aquaculture
SEM	CE1	Aquaculture	CO2	Acquire knowledge of different Types of Aquaculture and
				Culture systems
			CO3	Apply the knowledge of Design and construction of aqua
				farms
			CO4	Know the Seed resources
			CO5	Manage the carp culture ponds
			CO6	Select the pearl oysters and Ornamental fish Culture as self
				employment
	Z006	Aquaculture	CO1	Awareness on the potential fishes and their breeding habits
	CE2	management		
			CO2	Generating knowledge on different fish based value added
				products
			CO3	Ability to manage feed and feeding in aquaculture farms
			CO4	Nutritional requirements of fish and production and supply
				of balanced diet.
			CO5	Importance of live feeds in fish nutrition.
			CO6	Economic analysis of business organizations.
			CO7	Cost and earnings from aquaculture systems
	Z006	Post Harvest	CO1	Acquire the knowledge of handling of fish and apply the
	CE3	Technology		principles of fish preservation
			CO2	Discriminate the Traditional and advanced methods of fish
		1		preservation
			CO3	
			CO3	Use the advanced methods of fish preservation along with traditional methods
			CO3 CO4	Use the advanced methods of fish preservation along with
				Use the advanced methods of fish preservation along with traditional methods
				Use the advanced methods of fish preservation along with traditional methods Understand the preparation of Seaweed Products and can

		1	CO5	Understand the Processing and preservation of fish and fish
				by-products in the field of food industry and agriculture
			CO6	Understand the importance of Sanitation and Quality control
			CO7	Acquire the knowledge of Quality Assurance, Management and Certification in Aqua food industry
	ZOO6C	SUSTAINABLE AQUACULTURE	C01	Evaluate the present status of aquaculture at the Global level and National level
l		MANAGEMENT		Classify different types of ponds used in aquaculture
VI				Demonstrate induced breeding of carps
SEM				Acquire critical knowledge on commercial importance of
				shrimps
<b></b>				Identify fin and shell fish disease
	ZOO7C	POSTHARVEST	C01	Identify the types of preservation methods employed in
l		TECHNOLOGY OF		aquaculture Choose the suitable Processing methods in aquaculture
		FISH AND FISHERIES		Choose the suitable Processing methods in aquaculture Maintain the standard quality control protocols laid down in
l		FISHENILS		Maintain the standard quality control protocols laid down in aqua industry
l				Identify the best Seafood quality assurance system
SEM I	COM2012	Fundamentals Of	201	Identify transactions and events that need to be recorded in
~_		Accounting	C01	the books of accounts.
l		-	C02	Equip with the knowledge of accounting process and
l			C02	preparation of final accounts of sole trader.
l			C03	Develop the skill of recording financial transactions and
l				preparation of reports in accordance with GAAP.
I			C04	Analyze the difference between cash book and pass book in
I				terms of balance and make reconciliation.
			C05	Design new accounting formulas & principles for business organizations.
SEM I	COM2013	Business Organization	C01	Understanddifferentformsofbusinessorganizations.
		And Management	C02	ComprehendthenatureofJointStockCompanyand formalitiestopromoteaCompany.
I				Criticallyexaminethevariousorganizationsofthebusiness
			C03	firmsandjudgethebestamongthem.
			C04	Design and plan to register a business firm.
I			07	Preparedifferentdocumentstoregisteracompanyathisown
SEM I	COM2011	Business Environment	C05	Understand the concept of business environment.
			C03	
				Define Internal and External elements affecting business environment.
			CO3	Explain the economic trends and its effect on Government policies
1			CO4	
l				Evaluate and judge the best business policies in Indian business environment.
l			CO5	
l			0.5	Develop the new ideas for creating good business
				environment.
SEM I	LSC3	Life Skill Course	C01	Understandingmainfunctionsanditscharacteristicsofanentrepr
l		:EntrepreneurshipDev		eneur
l		elopment	C02	Analyzedifferentsourcestogeneratenewideasinbusiness
l			C03	Developingnewprojectsanditsreportpreparationof
1				project
l			C04	UnderstandingdifferentfinancialinstitutionsthatsupportsSSI's
l				Describingvariousgovernmentpoliciesandtaxation
			C05	benefitsofSSI's
SEM I	SDC2C	Skill	C01	Understandthefieldlevelstructureandfunctioningofinsurances
L		·	001	

		DevelopmentCourse:I		ectorandit'sroleinprotectingtherisks
SEM II		nsurancePromotion		Comprehendpertainingskillsandtheirapplicationforpromotin
			C02	ginsurancecoverage
			C03	PreparebetterfortheInsuranceAgentexamination
			005	conductedbyIRDA
			C04	Plan'promotinginsurancecoveragepractice'asoneofthecarrier option
			C05	Comprehendpertainingskillsandtheirapplicationforpromotin ginsurancecoverage
	COM2023	FundamentalsOfAcco unting-Ii	C01	Understand the concept of consignment and learn theaccountingtreatmentofthevariousaspectsofconsignment.
			C02	Analyzetheaccountingprocessandpreparationofaccountsinco nsignmentandjointventure
			C03	DistinguishJointVentureandPartnershipandtolearnthemethod sofmaintainingrecordsunderJointVenture.
			C04	Determinetheusefullifeandvalueofthedepreciableassetsandm aintenanceofReservesinbusinessentities.
			C05	Design an accounting system for different models ofbusinessesathisownusingtheprinciplesofexistingAc
SEM II	COM2022	Banking Theory And Practice	C01	countingsystem.Understand the basic concepts of banks and functions of commercial banks.
			C02	Demonstrate an awareness of law and practice in a banking context.
			C03	Organize information as it relates to the regulation of banking products and services.
			C04	Formulate the procedure for better service to the customers from various banking innovations.
SEM II	SDC23C	Advertising	C01	Understand the field of Advertising
			CO2	Comprehend opportunities and challenges in
			002	Advertising sector
			CO3	Understand applying of related skills
			CO3 CO4	
				Understand applying of related skills
SEM II	SDC21C	Agricultureal		Understand applying of related skills Examine the scope for making advertising a future
SEM II	SDC21C	Agricultureal Marketing	CO4 CO1	Understand applying of related skills Examine the scope for making advertising a future career Know the kinds of agricultural products and their movement
SEM II	SDC21C	e e	CO4	Understand applying of related skillsExamine the scope for making advertising a future careerKnow the kinds of agricultural products and their movementUnderstand the types, structure and functioning of
SEM II	SDC21C	e e	CO4 CO1 CO2	Understand applying of related skillsExamine the scope for making advertising a future careerKnow the kinds of agricultural products and their movementUnderstand the types, structure and functioning of agricultural marketing system
SEM II	SDC21C	e e	CO4 CO1	Understand applying of related skillsExamine the scope for making advertising a future careerKnow the kinds of agricultural products and their movementUnderstand the types, structure and functioning of agricultural marketing systemComprehend related skills and apply them in sample
SEM II	SDC21C	e e	CO4 CO1 CO2 CO3	Understand applying of related skillsExamine the scope for making advertising a future careerKnow the kinds of agricultural products and their movementUnderstand the types, structure and functioning of agricultural marketing systemComprehend related skills and apply them in sample situations
SEM II	SDC21C	e e	CO4 CO1 CO2	Understand applying of related skillsExamine the scope for making advertising a future careerKnow the kinds of agricultural products and their movementUnderstand the types, structure and functioning of agricultural marketing systemComprehend related skills and apply them in sample situationsExtend this knowledge and skills to their
SEM II	SDC21C	e e	CO4 CO1 CO2 CO3	Understand applying of related skillsExamine the scope for making advertising a future careerKnow the kinds of agricultural products and their movementUnderstand the types, structure and functioning of agricultural marketing systemComprehend related skills and apply them in sample situationsExtend this knowledge and skills to their production/consumption environment
		Marketing	CO4 CO1 CO2 CO3 CO4	Understand applying of related skillsExamine the scope for making advertising a future careerKnow the kinds of agricultural products and their movementUnderstand the types, structure and functioning of agricultural marketing systemComprehend related skills and apply them in sample situationsExtend this knowledge and skills to their
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SEM		Marketing	CO4 CO1 CO2 CO3 CO4 CO1 CO2	Understand applying of related skillsExamine the scope for making advertising a future careerKnow the kinds of agricultural products and their movementUnderstand the types, structure and functioning of agricultural marketing systemComprehend related skills and apply them in sample situationsExtend this knowledge and skills to their production/consumption environmentUnderstand the Accounting treatment of Share Capital and aware of process of book building.Comprehend the important provisions of Companies Act, 2013 and prepare final accounts of a company with Adjustments.
SEM		Marketing	CO4 CO1 CO2 CO3 CO4 CO1	Understand applying of related skillsExamine the scope for making advertising a future careerKnow the kinds of agricultural products and their movementUnderstand the types, structure and functioning of agricultural marketing systemComprehend related skills and apply them in sample situationsExtend this knowledge and skills to their production/consumption environmentUnderstand the Accounting treatment of Share Capital and aware of process of book building.Comprehend the important provisions of Companies Act, 2013 and prepare final accounts of a company with Adjustments.Understand analysis of complex issues, formulation of well-reasoned arguments and reaching better
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SEM		Marketing	CO4 CO1 CO2 CO3 CO4 CO1 CO2	Understand applying of related skillsExamine the scope for making advertising a future careerKnow the kinds of agricultural products and their movementUnderstand the types, structure and functioning of agricultural marketing systemComprehend related skills and apply them in sample situationsExtend this knowledge and skills to their production/consumption environmentUnderstand the Accounting treatment of Share Capital and aware of process of book building.Comprehend the important provisions of Companies Act, 2013 and prepare final accounts of a company with Adjustments.Understand analysis of complex issues, formulation of well-reasoned arguments and reaching better conclusions.Participate in the preparation of consolidated
SEM		Marketing	CO4 CO1 CO2 CO3 CO4 CO1 CO2 CO3 CO4	Understand applying of related skillsExamine the scope for making advertising a future careerKnow the kinds of agricultural products and their movementUnderstand the types, structure and functioning of agricultural marketing systemComprehend related skills and apply them in sample situationsExtend this knowledge and skills to their production/consumption environmentUnderstand the Accounting treatment of Share Capital and aware of process of book building.Comprehend the important provisions of Companies Act, 2013 and prepare final accounts of a company with Adjustments.Understand analysis of complex issues, formulation of well-reasoned arguments and reaching better conclusions.Participate in the preparation of consolidated accounts for a corporate group.
SEM		Marketing	CO4 CO1 CO2 CO3 CO4 CO1 CO2 CO3	Understand applying of related skillsExamine the scope for making advertising a future careerKnow the kinds of agricultural products and their movementUnderstand the types, structure and functioning of agricultural marketing systemComprehend related skills and apply them in sample situationsExtend this knowledge and skills to their production/consumption environmentUnderstand the Accounting treatment of Share Capital and aware of process of book building.Comprehend the important provisions of Companies Act, 2013 and prepare final accounts of a company with Adjustments.Understand analysis of complex issues, formulation of well-reasoned arguments and reaching better conclusions.Participate in the preparation of consolidated
SEM		Marketing	CO4 CO1 CO2 CO3 CO4 CO1 CO2 CO3 CO4	Understand applying of related skillsExamine the scope for making advertising a future careerKnow the kinds of agricultural products and their movementUnderstand the types, structure and functioning of agricultural marketing systemComprehend related skills and apply them in sample situationsExtend this knowledge and skills to their production/consumption environmentUnderstand the Accounting treatment of Share Capital and aware of process of book building.Comprehend the important provisions of Companies Act, 2013 and prepare final accounts of a company with Adjustments.Understand analysis of complex issues, formulation of well-reasoned arguments and reaching better conclusions.Participate in the preparation of consolidated accounts for a corporate group.Communicate accounting policy choices with
SEM III	COM1931	Marketing Corporate Accounting	CO4 CO1 CO2 CO3 CO4 CO1 CO2 CO3 CO4 CO4 CO5	Understand applying of related skillsExamine the scope for making advertising a future careerKnow the kinds of agricultural products and their movementUnderstand the types, structure and functioning of agricultural marketing systemComprehend related skills and apply them in sample situationsExtend this knowledge and skills to their production/consumption environmentUnderstand the Accounting treatment of Share Capital and aware of process of book building.Comprehend the important provisions of Companies Act, 2013 and prepare final accounts of a company with Adjustments.Understand analysis of complex issues, formulation of well-reasoned arguments and reaching better conclusions.Participate in the preparation of consolidated accounts for a corporate group.Communicate accounting policy choices with reference to relevant laws and accounting standards.

SEM         COM1941         Accounting For Service Organization         COI         Frame problems using multiple mathematical and statistical tools, measuring relationships by using standard techniques.           SEM         COM1933         Banking Theory And Practice         COI         Learn and apply the statistical tools in day life.           CO2         Coarn apply the statistical tools in day life.         COI         Understand the basic concepts of banks and functions of commercial banks.           SEM         COM1933         Banking Theory And Practice         COI         Understand the basic concepts of banks and functions of commercial banks.           SEM         Online Business         COI         Organize information as it relates to the regulation of banking products and services.           SEM         Online Business         COI         Understand the online business and its advantages and disadvantages           III         Online Business         COI         Understand the online business and its advantages and shipping in online business           III         Online Business         COI         Indensity transactions and events that need to be recorded in the books of accounts.           IV         COM1941         Accounting For Service Organization         COI         Identify transactions and events that need to be recorded in the books of accounts.           IV         COM1943         Business Law         COI         Identify				mathematical proofs
SEM         COM193         Burking Theory And Practice         COI         Learn and apply the statistical tools in day life.           SEM         COM193         Burking Theory And Practice         COI         Understand the basic concepts of banks and functions of commercial banks.           COI         Demosstrate an avarness of law and practice in a bunking context.         COI         Understand the basic concepts of banks and functions of commercial banks.           COI         Demosstrate an avarness of law and practice in a bunking context.         COI         Demosstrate an avarness of law and practice in a bunking context.           COI         Demosstrate an avarness of law and practice in a bunking context.         COI         Organize information as it relates to the regulation of thanking products and services.           COI         Understand the online business         COI         Understand the online business           III         Online Business         COI         Understand the online business           COI         Analyze the procurement, payment process, security and steps involved         Analyze the procurement, payment process, security and steps involved           SEM         COM1941         Accounting For Service Organization         COI         Identify transactions and events that need to be recorded in the books of accounts of financial services and identify to importance of merchant backing services           SEM         COM1943         Business Law			CO3	
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IV     Practice     C01     functions of commercial banks.       IV     Demonstrate an awareness of law and practice in a			C05	
CO2 Demonstrate an awareness of law and practice in a	COM1942		C01	_
banking context.			C02	
C03 Organize information as it relates to the regulation of banking products and services.			C03	
C04 Formulate the procedure for better service to the customers from various banking innovations.			C04	_

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SEM V	BCO5A	Cost Accounting	C01	Understand various costing methods
			C02	Prepare cost sheet, quotations, and tenders to
				organization for different works.
			C03	Compare and contrast the financial statements of firms and interpret the results
SEMV	DCO5D	Coods And Services		firms and interpret the results
SEM V	BCO5B	Goods And Services Tax	C01	Understand the basic principles underlying the Indirect Taxation Statutes.
		1 dx		Examine the method of tax credit. Input and Output
			C02	Tax credit and Cross Utilization of Input Tax Credit.
				Identify and analyze the procedural aspects under
			C03	different applicable statutes related to GST.
			C04	Develop various GST Returns and reports for
			C04	business transactions in Tally.
SEM V	BCO5C	Taxation	C01	Acquire the complete knowledge of the tax evasion,
			01	tax avoidance and tax planning
			C02	Understand the provisions and compute income tax
				for various sources.
			C03	Grasp amendments made from time to time in
				Finance Act.
			C04	Compute total income and define tax complicacies and structure.
				Prepare and File IT returns of individual at his own.
SEM V	BCO5D	Commercial	C05	
SEM V	BCO2D	Geography	C01	Learning about the earth having contents
		Ocography	C02	Understand the land utilization of agriculture in
			002	Indian economy
			C03	Understand the uses of mining and mineral
				resources       To know the sources of water India
			C04	
SEM V	BCO5E	Central Banking	C01	Understanding support from real business
				information
			C02	To know the central banking in India and understand recent monitory and credit policies in India
				Learning inflation and price control by RBI and
			C03	understand supervision and regulation of central
				banks
	BCO5G	Rural And Form	C01	Understanding how to develop rural areas
		Credit		Acquire the complete knowledge of the rural area
			C02	formers to get agricultural loans and credits
			<u> </u>	Develop an idea about rural areas development
	PJW	Project Work	C03	Understand the basic concepts of banking
	1 J VV	Evaluation-Banking	C01	
		Draidation Dunking	C02	Acquire the complete knowledge of the overall
	DCOST	Duale I I I'	-	banking sector
	BCO5J	Business Leadership	C01	gain theoretical and practical knowledge to evaluate
				leadership skills         understand the group dynamics and group decision
			C02	making
				evaluate the role of women as leader and using
			C03	various social media platforms
SEM	MT6GE	Marketing	C01	Develop an idea about marketing and marketing
VI				environment.
			C02	Understand the consumer behavior and market
				segmentation process.
			C03	Comprehend the product life cycle and product line
				decisions.

			C04	Develop new product line and sales promotion
				techniques for a given product.
			C05	Formulate new marketing strategies for a specific new product.
SEM VI	AU6GE	Auditing	C01	Understanding the meaning and necessity of audit in modern era
			C02	Comprehend the role of auditor in avoiding the
			C03	corporate fraudsIdentify the steps involved in performing audit
				process Apply auditing practices to different types of
			C04	business entities
			C05	Plan an audit by considering concepts of evidence, risk and materiality
SEM VI	MA6GE	Management Accounting	C01	Understand various management techniques.
		. leeb shiring	C02	Apply Management accounting methods for both manufacturing and service industry.
			C03	Prepare analysis of various special decisions, using relevant management techniques.
SEM VI	FS6CG	Financial Services	C01	Understand the basic concepts of financial services and identify to importance of merchant banking
				services
			C02	Demonstrate an awareness of leasing, hire purchase, scrutinization of debts
			C03	Acquire the complete knowledge of the credit rating and other financial services
SEM VI	MFS6CE	Marketing Of Finantial Services	C01	Understand the basic concepts of financial services
VI		Financial Services	C02	identify to importance of merchant banking services
			C03	Demonstrate an awareness of leasing, hire purchase, scrutinization of debts
			C04	Acquire the complete knowledge of the credit rating and other financial services
SEM VI	PR6CE	Project Work-Banking	C01	Understand the basic concepts of banking
			C02	Acquire the complete knowledge of the overall banking sector
SEM VI	EM6GC	Event Management	C01	understand the event manager is responsible for the planning and managing of events
			C02	Acquire the complete knowledge of creating a detailed plan of events
VI	AMP63	Advertising And Media Planning	C01	Understand the role of advertising in business environment
SEM			C02	Understand the legal and ethical issues in advertising
			C03	Acquire skills in creating and developing advertisements
			C04	Understand up-to-date advances in the current media industry.
VI	SPP64	Sales Promotion And	C01	Analyse various sales promotion activities
SEM		Practice		Get exposed to new trends in sales Promotion Understand the concepts of creativity in sales
				promotion
			C02	Enhance skills to motivate the salesperson to reach their targets
			C03	Develop the skills of designing of sales promotion events

			<u> </u>	
	MAC61	Management	C01	Understand the nature and scope of management
		Accounting And		accounting and differentiate management
		Practice		accounting, financial accounting and cost accounting.
			C02	Compute ratios and draw inferences
				Analyze the performance of the organization by
			C03	preparing funds flow statement and cash flow
				statements
	CCT62	Cost Control	C01	. Differentiate cost control, cost reduction concepts
		Techniques		and identify effective techniques.
			C02	Allocate overheads on the basis of Activity Based
				Costing. Evaluate techniques of cost audit and rules
				for cost record.
			C03	Appraise the application of marginal costing
				techniques to evaluate performances, fix selling
				price, make or buy decisions.
	ECM65	E Commerce	C01	Understand the mechanism of ecommerce
				Equip specialization in website designing for e
				commerce Enhance their skills in operational
				services of e commerce Involve in activities of e
				commerce
	EF166	E FILING	C01	Understand and apply basic knowledge of Indian
				Tax System
				Equip expectation in terretion exotem and
			CO2	Equip specialization in taxation system and Enhance their skills in presenting returns
			CO3	Involve in activities of Charted Accountants for
				filing returns file returns of Income Tax and GST
	MAD67	Mobile Application		Identify basic terms ,tools and software related to
		Development	C01	android systems
		r	CO2	Describe components of IDE, understand features of
				android development tools
			CO3	Describe the layouts and controls
				Explain the significance of displays using the given
			CO4	view
			C04	Explain the features of services and able to
				publishandroid Application
	CSM68	Cyber Security And		
	COMO	Malware Analysis	C01	Understand the computer networks, networking tools and cyber security
		1viai vv ai v 1 mai j ~	CO2	Learn about NIST Cyber Security Framework
			CO3	Understand the OWASP Vulnerabilities
			005	Implement various Malware analysis tools
				Understand about Information Technology act 2000
			CO4	Understand about miormation reemiology act 2000
SEM I	CHE201	Classiciation I		The least of a block alamanta
SEIVI I	CHE201	Chemistry-I Inorganic And	CO1	Understand the basic concepts of p-block elements
		Physical Chemistry		Understand the basic concepts of d & f block
		Thysical Chemistry	CO2	elements.Understand the basic concepts of different bonds.
			CO2	Apply the concepts of Solids, important theories, and
				applications of Crystal Solids.
			CO4	Explain the difference between solid, liquid and gases inter

SEM II         CHE202         Chemistry-L-Practical Inorganic and Physical chemistry practical         C01         Understand the concepts of common ion effect, solubility product and concepts related to qualitative analysis.           SEM II         Chemistry-L-Practical Inorganic and physical chemistry practical         C01         Understand and explain the volumetric analysis based on fundamental concepts learn ionic equilibria physical chemistry practical           SEM II         CHE202         Chemistry-L-Practical Inorganic and Physical chemistry practical         C01         Understand and explain the volumetric analysis based on fundamental concepts learn ionic equilibria physical chemistry           SEM II         CHE202         Chemistry-L-Practical Inorganic and Physical chemistry         C01         Understand the basic concepts of standard solutions, Primary and secondary standards           SEM II         CHE202         Chemistry-I-Organic Chemistry         C01         Understand the basic concepts of standard solutions, Primary and secondary standards           C02         Understand the basic concepts of furnatic acture of the mole: Compounds and also cyclic compounds.         C01         Understand the basic concepts of furnatic acture of the compounds and also cyclic compounds.           C04         Understand the basic concepts of qualitative analysis of compounds and reactions also. Semi-consolutors and in types with examples. Industria diplications also. Semi-conductors and in types with examples. Industria diplications also. Semi-conductors of granic concopounds and reactions in thypes with examples. Industria					molecular forces and attractions.
SEM II         CHE IV STATUS         Construction of the status         Construction of the status           SEM II         CHE IV STATUS         Construction of the status         Construction of the status           SEM II         CHE IV STATUS         Construction of the status         Construction of the status           SEM II         CHE IV STATUS         Construction of the status         Construction of the status           SEM II         CHE IV STATUS         Construction of the status         Construction of the status           SEM II         CHE IV STATUS         Construction of the status         Converting moles to grants: Converting grants to moles: Converting moles to favatual to concepts of avatua				CO5	
Vertex Number 1         Construction of the concepts of a standard solutions, inderstand the concepts of a standard solutions, physical chemistry physical chemistry inderstand the concepts of a standard solutions, practical physical chemistry intervention in different sectors in Physical chemistry.           SEM II         CHEMISTY-I-Organic And physical chemistry.         Col:         Learn and identify the concepts of a standard solutions, primary and secondary standards           SEM II         CHEMISTY-I-Organic And Central Chemistry.         Col:         Conservation and size concepts of a standard solutions, concentrations. This may include: The concept of the mole; Converting moles to grames. Converting grames to moles: Converting moles to grames. Converting grames to moles: Converting moles to grames. Converting and secondary standards           SEM II         CHE202         Chemistry-I-Organic And Central.         Col:         Understand the basic concepts of startarded compounds.           Coreal chemistry         Col:         Understand the basic concepts of furnation and is types with examples. Industrial applications also. Semi-conductors and non Benzenoid compounds.           Coreal chemistry practical:         Col:         Understand the basic concepts of availability conditions of various molur.           Coreal chemistry practical:         Col:         Understand the basic concepts of availation condition and is types with examples. Industrial applications also. Semi-conductors and instry practical.           III         Chemistry practical:         Col:         Corecli the add describe the stereochemical properties					
SEM         CHEINSTY-Precisional Inorganic and physical chemistry practical         C01         Understand the colligative properties &its application in different sectors in Physical chemistry.           Cue         Chemistry-Precisional physical chemistry practical         C01         Understand and explain the volumetric analysis based on fundamental concepts the same incore quilibrian physical chemistry- practical           SEM II         CHE22         Chemistry-Program And Genaral Chemistry-Program And Genaral Chemistry         C01         Understand the basic concepts of a standard solutions.           CO1         Understand the basic concepts of saturated and unsaturated converting moles to grams: Converting grams to moles: Converting moles to grams: Converting grams to moles: Converting moles to grams: Converting of Aromatic compounds.           C01         Understand the basic concepts of Aromatic compounds.           C02         Understand the basic concepts of Aromatic compounds.           C03         Eventstud the concept of Associations of Organic compounds.           C04         Understand the basic concepts of Aromatic compounds.           C05         Correlate and describe the stereochemical properties of Organic compounds.           C06         Correlate and describe the stereochemical properties of Organic compounds and as occepts of qualitative analysis offnorganic mitture           C04         Understand the noncepts of common in effect, solubility productAnd concepts of common in effect, solubility productAnd concepts of landagen compounds. <td></td> <td></td> <td></td> <td>CO6</td> <td>Understand the concepts of common ion effect, solubility</td>				CO6	Understand the concepts of common ion effect, solubility
SEM II         Chemistry-I Practical Inorganic and physical chemistry practical         C01         Understand and explain the volumetric analysis based on fundamental concepts learnt ionic equilibria primary and secondary standards           SEM II         CHE:202         Chemistry-I-Organic And Genaral Chemistry         C01         Earn and identify the concepts of a standard solutions, Primary and secondary standards           SEM II         CHE:202         Chemistry-I-Organic And Genaral Chemistry         C01         Understand the basic concepts of saturated and unsaturated compounds and also cyclic compounds.           C02         Understand the basic concepts of Atomatic compounds.         C03         Understand the basic concepts of Atomatic compounds.           C04         Understand the basic concepts of Atomatic and unsaturated compounds and also cyclic compounds.         C04         Understand the basic concepts of Atomatic compounds.           C05         Correlate and describe the sereochemical properties of Organic compounds and reactions.         C04         Understand the basic concepts of qualitative analysis           III         Chemistry-IIII         C01         Understand the basic concepts of qualitative analysis           III         Chemistry-IIII         C01         Understand the basic concepts of qualitative analysis           III         Chemistry-IIII         C01         Understand the basic concepts of qualitative analysis           III         Chemistry-IIII					
SEM II         Chemistry-I-Practical physical chemistry practical         Col         Understand and explain the volumetric analysis based on fundamental concepts learnt ionic equilibria primary and secondary standards           SEM II         CHE202         Chemistry-I-Organic And Genaral Chemistry         Col         Earn and identify the concepts of a standard solutions, Primary and secondary standards           SEM II         CHE202         Chemistry-I-Organic And Genaral Chemistry         Col         Understand the basic concepts of saturated and unsaturated compounds and also cyclic compounds.           C02         Understand the basic concepts of anomatic compounds.         Col         Understand the basic concepts of anomatic and non Benzanoid compounds.           C04         Understand the basic concepts of anomatic and unsaturated compounds and also cyclic compounds.         Col         Understand the basic concepts of anomatic anomatic encompt of Adsorption and its types with examples. Industrial applications also. Semi-conductors and its types. Understand the concepts of anomatic anomatic encompt of Adsorption and its types with examples. Industrial applications also. Semi-conductors and its types. Understand the basic concepts of qualitative analysis           Chemistry practicals II         Col         Understand the basic concepts of adaptic and polysis           Cos         Correlate and describe the stereochemical properties of Organic componeds         Col           Cos         Correlate and describe the stereochemical properties of Organic compontends         Col				CO7	Understand the colligative properties &its application in
SEM         Chemistry-I-Practical Inorganic and physical chemistry practical         C01         Understand and explain the volumetric analysis based on fundamental concepts learnt ionic equilibria physical chemistry           SEM II         CHE202         Chemistry-I-Organic And Genaral Chemistry-I-Organic And Genaral Chemistry         C02         Learn and identify the concepts of a standard solutions, Primary and secondary standards           SEM II         CHE202         Chemistry-I-Organic And Genaral Chemistry         C01         Understand the basic concepts of availated and unsaurated compounds and also cyclic compounds.           C02         Understand the basic concepts of Atomatic compounds.         Understand the basic concepts of Atomatic compounds.           C03         Understand the basic concepts of Atomatic compounds.         C04         Understand the basic concepts of Atomatic compounds.           C04         Understand the basic concepts of Atomatic compounds.         C05         Correlate and describe the sterochemical properties of Organic compounds and reactions           C04         Understand the basic concepts of qualitative analysis         C05         Correlate and describe the sterochemical properties of Organic compounds and reactions           III         C02         Use glass ware, equipment and chemicals and follow Experimental procepts of common in effect, solubility productAnd concepts related to qualitative analysis           SEM III         CHE193         Chemistry-III         C02         Describe an					
Imagination of physical chemistry practical         COI         fundamental concepts learnt ionic equilibria physical chemistry practical           SEM II         CHE202         Chemistry-Porganic All chemistry of concepts of a standard solutions. Primary and secondary standards           SEM II         CHE202         Chemistry-Porganic And Genaral Chemistry of Converting moles to grans; Converting grans to moles; Converting moles to grans; Converting prants to moles; Converting moles to grans; Converting the print mole; Converting moles to grans; Converting moles to grans; Converting the print mole; Converting the concept of Adsorption and its types. Understand the basic concepts of adsorption and its types with texas.           C01         Understand the basic concept of Adsorption and its types. Understand the basic concept of Adsorption and its types with texas.					
Name         Physical chemistry practical         C02         Learn and identify the concepts of a standard solutions, Primary and secondary standards           SEM II         CHE202         Chemistry-I-Organic And Genaral Chemistry         C01         Understand the basic concepts of starnated and unsaturated compounds.           C02         Understand the basic concepts of starnated and unsaturated compounds.         C02         Understand the basic concepts of starnated and unsaturated compounds.           C03         Understand the basic concepts of starnated and unsaturated compounds.         C03         Understand the basic concepts of Aromatic compounds.           C04         Understand the basic concepts of Aromatic compounds.         C04         Understand the concept of Aromatic compounds.           C05         Correlate and describe the stereochemical properties of organic compounds.         C05         Correlate and describe the stereochemical properties of Organic compounds and reactions           II         Chemistry practicals         C01         Understand the concept of additative analysis           II         Chemistry practicals         C01         Understand the concept of additative analysis           II         Chemistry practicals         C01         Understand the onecept of additative analysis           II         Chemistry practicals         C01         Understand the basic concepts of qualitative analysis           II <t< td=""><td></td><td></td><td></td><td>C01</td><td>-</td></t<>				C01	-
SEM         Practical         C02         Learn and identify the concepts of a standard solutions, Primary and secondary standards           SEM II         CHE202         Chemistry-I-Organic And Genaral Chemistry         C03         Facilitate the learner to make solutions of various molar concentrations. This may include: The concept of the mole; Converting moles to grans: Converting grans to moles;           SEM II         CHE202         Chemistry-I-Organic And Genaral Chemistry         C01         Understand the basic concepts of Automatic compounds.           C02         Understand the basic concepts of Automatic compounds.         C04         Understand the basic concepts of Automatic conductors and its types. Understand the different theories & & & & & & & & & & & & & & & & & & &			-		fundamental concepts learnt ionic equilibria
SEM         Chemistry-IOrganic         C02         Primary and secondary standards           SEM II         CHE202         Chemistry-IOrganic And Genaral         C01         Facilitate the learner to make solutions of various molar concerniting moles to grams; Converting grams to moles;           Chemistry         Chemistry-IOrganic And Genaral         C01         Understand the basic concepts of staturated and unsaturated compounds and also cyclic compounds.           C02         Understand the basic concepts of Aromatic compounds.         C03         Understand the basic concepts of Aromatic compounds.           C04         Understand the basic concepts of Astronatic compounds.         C04         Understand the basic concepts of Astronatic compounds.           C04         Understand the basic concepts of Adsorption and its types with examples. Industrial applications also. Semi-conductors and its types. Understand the different theories &bonding in Metals.           C05         Correlate and describe the stereochemical properties of Organic compounds and reactions           III         Chemistry practicals II         C01         Understand the basic concepts of qualitative analysis offnorganic mixture           SEM         CHE193         Chemistry-III         C01         Understand the concept of Ongounds.           SEM         CHE193         Chemistry-III         C01         Describe and understand the nomenclature, preparation, properties of lalogen compounds.           SE			1.	<u> </u>	Learn and identify the concepts of a standard solutions,
SEM II         CHE202         Chemistry-I-Organic And Genaral Chemistry         CO1         Understand the basic concepts of saturated and unsaturated compounds and also cyclic compounds.           C01         Understand the basic concepts of non-saturated compounds.           C101         Understand the basic concepts of anomatic compounds.           C102         Understand the basic concepts of Aromatic compounds.           C103         Understand the concept of Adsorption and its types with examples. Industrial applications also. Semi-conductors and its types. Understand the different theories &bonding in Metals.           C02         Understand the concept of Adsorption and its types with examples. Industrial applications also. Semi-conductors and its types. Understand the different theories &bonding in Metals.           C03         Correlate and describe the stereochemical properties of Organic compounds and reactions           C11         Understand the basic concepts of qualitative analysis offnorganic mixture           C12         Use glass ware, equipment and chemicals and follow Experimental procedures in the laboratory           C03         Apply the concepts of common ion effect, solubility productAnd concepts related to qualitative analysis           SEM III         Chemistry-III         C01         Describe and understand the molecular formula. structure, preparation, Properties of Lalogen compounds           SEM III         Chemistry-III         C02         Describe and understand the concept of Photochemistry & Photo chemica			practical	C02	
SEM II         CHE202         Chemistry-I-Organic And Genaral Chemistry         CO1         Understand the basic concepts of saturated and unsaturated compounds and also cyclic compounds.           C01         Understand the basic concepts of non-saturated compounds.           C101         Understand the basic concepts of anomatic compounds.           C102         Understand the basic concepts of Aromatic compounds.           C103         Understand the concept of Adsorption and its types with examples. Industrial applications also. Semi-conductors and its types. Understand the different theories &bonding in Metals.           C02         Understand the concept of Adsorption and its types with examples. Industrial applications also. Semi-conductors and its types. Understand the different theories &bonding in Metals.           C03         Correlate and describe the stereochemical properties of Organic compounds and reactions           C11         Understand the basic concepts of qualitative analysis offnorganic mixture           C12         Use glass ware, equipment and chemicals and follow Experimental procedures in the laboratory           C03         Apply the concepts of common ion effect, solubility productAnd concepts related to qualitative analysis           SEM III         Chemistry-III         C01         Describe and understand the molecular formula. structure, preparation, Properties of Lalogen compounds           SEM III         Chemistry-III         C02         Describe and understand the concept of Photochemistry & Photo chemica					Equilitate the learner to make solutions of various maler
Image: Series in the series of the				C03	
SEM II         CHE202         Chemistry-I-Organic And Genaral Chemistry         C01         Understand the basic concepts of saturated and unsaturated compounds and also cyclic compounds.           C02         Understand the basic concepts of unsaturated compounds.           C03         Explain the concept of Aromatic nature of Benzenoid and non Benzenoid compounds.           C04         Understand the basic concepts of aromatic nature of Benzenoid and non Benzenoid compounds.           C04         Understand the concept of Adsorption and its types with examples. Industrial applications also. Semi-conductors and its types. Understand the different theories &bonding in Metals.           C04         Understand the basic concepts of anomatic nature of Organic compounds and reactions           C15         Correlate and describe the stereochemical properties of Organic compounds and reactions           C16         Understand the basic concepts of qualitative analysis offlorganic mixture           C10         Understand the noise concepts of common in effect, solubility product And concepts of common ion effect, solubility product And concepts of common ion effect, solubility product And concepts of common ion effect, solubility product And concepts of anonyl compounds.           SEM III         C01         Describe and understand the nonceptal formula. structure, preparation, properties of common ion effect, solubility product And concept of phase rules.           SEM III         C1E193         Chemistry-III         C01         Describe and understand the nomenclature. preparatio					
And Genaral Chemistry         C01         compounds and also cyclic compounds.           C02         Understand the basic concepts of unsaturated compounds. Explain the concepts of aromatic nature of Benzenoid and non Benzenoid compounds.           C03         Understand the basic concepts of Aromatic compounds.           Explain the concept of Adsorption and its types with examples. Industrial applications also. Semi-conductors and its types. Understand the officent theories &bonding in Metals.           C04         Conterstand the different theories &bonding in Metals.           C05         Correlate and describe the stereochemical properties of Organic compounds and reactions           C04         Understand the basic concepts of qualitative analysis           III         C02         Use glass ware, equipment and chemicals and follow Experimental procedures in the laboratory           SEM         CHE193         Chemistry-III         C01         Describe and understand the molecular formula. structure, preparation, properties of carbonyl compounds           SEM         CHE193         Chemistry-III         C02         Describe and understand the nomenclature, preparation, Properties of autopunds           C04         Understand the concept of Phase rule& different compounds         C03         Describeandunderstand the nomenclature, preparation, Properties of autopunds           C04         Describeand understand the concept of Phase rule& different compounds         C04         Understand the concept of	SEM II	CHE202	Chemistry-I-Organic		
Chemistry         Chemistry         Columnation of the concepts of unsaturated compounds. Explain the concepts of aromatic nature of Benzenoid and non Benzenoid compounds. Explain the concepts of Adsorption and its types with examples. Industrial applications also. Semi-conductors and its types. Understand the different theories &bonding in Metals.           C04         Understand the basic concepts of Adsorption and its types with examples. Industrial applications also. Semi-conductors and its types. Understand the different theories &bonding in Metals.           C05         Correlate and describe the stereochemical properties of Organic compounds and reactions           C10         Understand the basic concepts of qualitative analysis of florograine mixture           C02         Use glass ware, equipment and chemicals and follow Experimental procedures in the laboratory           C03         Apply the concepts of common ion effect, solubility productAnd concepts related to qualitative analysis           SEM         CHE193         Chemistry-III           III         Co1         Describe and understand the molecular formula. structure, preparation, properties of acabonyl compounds           C04         Describe and understand the nomenclature, preparation, Properties of carbonyl compounds           C03         Describe and understand the nomenclature, preparation,Properties of carbonyl compounds           C04         Understand the concept Order formula structure, preparation,Properties of carbonyl compounds           C04         Describe and understand the concept of Phase r				C01	_
SEM         CHE193         Chemistry-III         C01         Understand the basic concepts of unsaturated compounds Explain the concepts of aromatic nature of Benzenoid and non Benzenoid compounds.           SEM         Chemistry practicals- II         C01         Understand the basic concepts of Adsorption and its types with examples. Industrial applications also. Semi-conductors and its types. Understand the different theories & bonding in Metals.           C04         Correlate and describe the stereochemical properties of Organic compounds and reactions           C05         Correlate and describe the stereochemical properties of Organic concepts of qualitative analysis offnorganic mixture           C02         Use glass ware, equipment and chemicals and follow Experimental procedures in the laboratory productAnd concepts related to qualitative analysis           SEM         CHE193         Chemistry-III         C01         Describe and understand the molecular formula. structure, preparation, properties of factoryl compounds           SEM         CHE193         Chemistry-III         C02         Describe and understand the nomenclature, preparation, properties of carbonyl compounds           C04         Understand the concept of Phase rule& different component Systems. Understand the concept of Phase rule& different component Systems. Understand the concept of Photochemistry & Photo chemical Reaction mechanisms.           C05         Describe and understand the chemical behavior of functional groups           C04         Understand the chemical behavior of functional gro					
SEM         CHE193         Chemistry-III         C01         Explain the concept of Adsorption and its types with examples. Industrial applications also. Semi-conductors and its types. Understand the different theories & bonding in Metals.           C02         Correlate and describe the stereochemical properties of Organic compounds and reactions           C01         Understand the different theories & bonding in Metals.           C02         Correlate and describe the stereochemical properties of Organic compounds and reactions           C01         Understand the basic concepts of qualitative analysis offloroganic mixture           C02         Use glass ware, equipment and chemicals and follow Experimental procedures in the laboratory           C03         Apply the concepts of common ion effect, solubility product/nd concepts related to qualitative analysis offloroganic mixture.           III         C01         Describe and understand the molecular formula. structure, preparation, properties of halogen compounds and hydroxyl compounds           SEM         CHE193         Chemistry-III         C01         Describe and understand the nomenclature, preparation, properties of carbonyl compounds           C02         Describe/stand the concept of Phase rule& different compounds         C03         Describe/stand the concept of Phase rule& different compounds           C04         Understand the concept of Photochemistry & Photo chemical Reaction mechanisms.         C04         Describe/stand the concept of Photochemistry & Photo chemical				C02	Understand the basic concepts of unsaturated compounds
SEM         CHE193         Chemistry-III         Col         Understand the concept of Adsorption and its types with examples. Industrial applications also. Semi-conductors and its types. Understand the different theories & bonding in Metals.           SEM         Chemistry practicals- II         Col         Correlate and describe the stereochemical properties of of organic compounds and reactions           SEM         CHE193         Chemistry-III         Col         Understand the basic concepts of qualitative analysis of Inorganic mixture           SIM         CHE193         Chemistry-III         Col         Use glass ware, equipment and chemicals and follow Experimental procedures in the laboratory           SIM         CHE193         Chemistry-III         Describe and understand the molecular formula. structure, preparation, properties of Carbonyl compounds           III         Col         Describe and understand the nomenclature, preparation, properties of Carbonyl compounds           CO2         Describe and understand the nomenclature, preparation, properties of Carbonyl compounds           CO3         Describe and understand the nomenclature, preparation, properties of carbonyl compounds           CO4         Understand the concept of Photochemistry & Photo chemical % eith filterent mechanisms.           CO4         Exprimental Reaction mechanisms.           CO4         Exprimental the chemical behavior of functional groups           C04         Understand the chemical				C03	Understand the basic concepts of Aromatic compounds.
SEM         CHE193         Chemistry-III         C01         Understand the concept of Adsorption and its types with examples. Industrial applications also. Semi-conductors and its types. Understand the different theories & bonding in Metals.           SEM         Chemistry practicals. II         C01         Correlate and describe the stereochemical properties of Organic compounds and reactions           C02         Understand the basic concepts of qualitative analysis of Inorganic mixture         C02         Use glass ware, equipment and chemicals and follow Experimental procedures in the laboratory           C03         Apply the concepts of common in effect, solubility productAnd concepts related to qualitative analysis           SEM         CHE193         Chemistry-III         C01         Describe and understand the molecular formula. structure, preparation, properties of factoryl compounds           III         C02         Describe and understand the nomenclature, preparation, properties of carbonyl compounds           III         C04         Inderstand the concept of Phase rule& different compounds           III         C05         Describe and understand the nomenclature, preparation, properties of carbonyl compounds           III         C06         Describe and understand the concept of Phase rule& different compounds           III         C01         Describe and understand the concept of Phase rule& different compounds           III         C02         Describe and understand the conc				205	
SEM         CHE193         Chemistry-III         C01         examples. Industrial applications also. Semi-conductors and its types. Understand the different theories & bonding in Metals.           SEM         Chemistry practicals-II         C01         Understand the basic concepts of qualitative analysis offnorganic mixture           SEM         CHE193         Chemistry-III         C01         Understand the nonecular formula. structure, preparation, properties of common ion effect, solubility productAnd concepts related to qualitative analysis           SEM         CHE193         Chemistry-III         C01         Describe and understand the nonecular formula. structure, preparation, properties of alogen compounds and hydroxyl compounds           C02         Describe and understand the nomenclature, preparation, properties of carbonyl compounds           C03         Describe and understand the nomenclature, preparation, properties of carbonyl compounds           C04         Understand the concept of Phase rule& different compounds           C04         Describe and understand the concept of Phase rule& different compounds           C04         Describe and understand the concept of Phase rule& different compounds           C04         Describe and understand the concept of Phase rule& different compounds           C04         Describe and understand the concept of Phase rule& different compounds           C04         Describe and understand the concopt of Phase rule& different component Systems. Understa					
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C02       Use glass ware, equipment and chemicals and follow Experimental procedures in the laboratory         C03       Apply the concepts of common ion effect, solubility productAnd concepts related to qualitative analysis         SEM       CHE193       Chemistry-III       C01       Describe and understand the molecular formula. structure, preparation, properties of halogen compounds and hydroxyl compounds         III       C02       Describe and understand the nomenclature, preparation, properties of carbonyl compounds         C03       Describe and understand the nomenclature, preparation, properties of carbonyl compounds         C04       Describe and understand the nomenclature, preparation, properti esofoarboxylicacids, active methyl compounds         C04       Understand the concept Chemical Kinetics, Enzyme catalysis & dist factors         C05       Describe and understand the concept of Phase rule& different component Systems. Understand the concept of Photochemistry & Photo chemical Reaction mechanisms.         CHEMISTRY-III Organic Qualitative Analysis       C01       Understand the chemical behavior of functional groups         C02       Recognize the MP & BP of various functional groups       C02			• •	C01	
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C04       catalysis &its factors         C05       Describe and understand the concept of Phase rule& different component Systems.         Understand the concept of Photochemistry & Photo chemical Reaction mechanisms.         CHEMISTRY-III Organic Qualitative Analysis       C01         Understand the chemical behavior of functional groups         C02       Recognize the MP & BP of various functional groups				C04	
CHEMISTRY-III Organic Qualitative Analysis       C01       Understand the concept of Photochemistry & Photo chemical Reaction mechanisms.         C01       Understand the chemical behavior of functional groups         C02       Recognize the MP & BP of various functional groups				04	
CHEMISTRY-III Organic Qualitative Analysis       C01       Understand the concept of Photochemistry & Photo chemical Reaction mechanisms.         C01       Understand the chemical behavior of functional groups         C02       Recognize the MP & BP of various functional groups				C05	Describe and understand the concept of Phase rule $\&$
CHEMISTRY-III Organic Qualitative Analysis       C01       Understand the concept of Photochemistry & Photo chemical Reaction mechanisms.         C01       Understand the chemical behavior of functional groups         C02       Recognize the MP & BP of various functional groups					-
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CHEMISTRY–III Organic Qualitative Analysis       C01       Understand the chemical behavior of functional groups         C02       Recognize the MP & BP of various functional groups					
Organic Qualitative       C01       Understand the chemical behavior of functional groups         Analysis       C02       Recognize the MP & BP of various functional groups         Understand the procedure for functional group       Understand the procedure for functional group			CHEMISTRY_III		
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C02 Recognize the MP & BP of various functional groups					
Understand the procedure for functional group				000	
C03     Understand the procedure for functional group				C02	Recognize the MP & BP of various functional groups
C03     Understand the procedure for functional group					
				C02	Understand the procedure for functional group
				005	

				Identification
			C04	Practice the functional group analysis
SEM IV	CHE194	CHEMISTRY-IV organic	C01	Understand the nomenclature, types, structure, preparations, reactions of nitro hydrocarbons
		&spectroscopy of organic compounds	C02	Introduction of amino acids and its classification. Protein synthesis.Explanation on Zwitter ion and iso electric point.Discuss the nomenclature, types, preparations, properties ofpyrrole, furane, thiophene
			C03	Identify the structures of glucose, fructose and analyze the tests, properties, inter conversions of carbohydrates
			CO4	Understand analytical data treatment, error, classify analytical, instrumental methods, consider EMR rotation spectroscopy
			CO5	understand the concept of vibrational spectroscopy, selection rules
			CO6	Analyze the elements using mass pectroscopy , understandThe atomic and NMR spectroscopy Understand the concepts of UV spectroscopy
			C07	Applications of spectroscopy to simple organic molecules
		CHEMISTRY- practical -IV Preparation and spectral analysis of organic compounds	C01	Acetylation , benzylation and nitration of organic compounds with examples.
			C02	IR spectral analysis of the 3 functional groups with examples (Hydroxyl, carbonyl, amine)
SEM V	CHE 5A	CHEMISTRY-V Organic and physical chemistry	C01	understand and concept of nomenclature and the various theories of co-ordination compounds, nomenclature.Stereochemistry of coordination
			C02	compoundsisomerism-geometrical and optical isomerismTo analyze the magnetic behavior, stability of complexcompoundsintroduction of organo metallic compound, classification and its applications
			C03	classify and analyze the reactivity of complex compounds, understand the trans effect, essential elements, Metalloporphyrins, myoglobin, chlorophyll
			C04	Understand on state and explain the various concepts, laws, Derivations of thermodynamics
			C05	To analyse the concepts of conductance, kohlrausch's,arrhenius,ostwald's, debyehuckel-onsagar, transportnumbers, Hittorof'slaw.
		CHEMISTRY-V practical –V Physical and instrumental methods of analysis	C01	Conductometric titrations, CST-phenol water system Potentiometric titrations Spectrophotometry

SEM V	CHE5B	CHEMISTRY-VI	T	
	СНЕЗД	Inorganic, Organic and physical	C01	classify and analyse the reactivity of complex compounds Understand the concept of metal complexes, Substitution
		chemistry	!	Reactions & Trans effect and its applications.
		-	C02	Essential elements, biological significance of
				EssentialElements. Metalloporphyrins, myoglobin & chlorophyll
		1	C03	Understand the concept of rate of reaction, activation energyderivation of rate Constants. Methods to determine
			C04	the order of reactions. Discuss the nomenclature, types, preparations, properties ofpyrrole, furane, thiophene.
			C05	Identify the structures of glucose, fructose and analyse the tests, properties, inter conversions of carbohydrates
		CHEMISTRY– Practical -VI-Physical Chemistry	C01	To understand the determination of rate constant for Ester hydrolysis
			C02	To understand the determination of Partition coefficient
			C03	To understand the determination of Surface tension of Liquid
			C04	To understand the determination of Viscosity of Liquid
			C05	To understand the Adsorption method.
SEM VI	CHE6GE1	CHEMISTRY-VII Elective Paper-	C01	To understand the Concept, scope, importance of
V I		Environmental Chemistry		Environmental Chemistry. Segments of Environment&Hydrological cycle.
			C02	To discuss the sources& classification of Air pollution. Acid rain ,Greenhouse effect. Ozone depletion & Controlling methods of Air pollution
			C03	To discuss the Properties &quality of Water, DO,BOD&COD.Methods to convert permanent hard water in to soft water.
			C04	To find the toxic elements in the Environment effects of Toxic elements.
			C05	To understand the Concept of biodiversity, significance &its trends
		1	C06	Redox titrations-DeterminetheFeusingkmno <sub>4</sub>
		1	C07	To determine the Feusing K <sub>2</sub> Cr <sub>2</sub> o <sub>7</sub>
		1	C08	Comlexometric titrations-
		1	C09	To determine the Ni ions by EDTA Gravimetric Analysis. To determine the Ni as Nickel dimethyl glyoxime
	1	1 .		dimethyl glyoxime
SEM	CHECE1	CHEMISTRY-VIII	C01	

	Organic Spectroscopic techniques	C02	To discuss the Spin decoupling &spin tickling. Application in Medical diagnostics.
		C03	To discuss the Electronic spectra of diatomic molecules.Types of transitions
		C04	To discuss the Electronic spectra of polyatomic molecules.Electronic spectroscopy –BEER LAMBERTS LAW
		C05	To understand the Electronic spin resonance spectroscopy.Basic principles &its applications
	CHEMISTRY-VIII Cluster Elective 1	C01	Preparation of Aspirin
	Paper- VIII Practical-1	C02	Preparation of Paracetamol
	Organic Preparations	C03	Preparation of Acetanilide
		C04	Preparation of Barbutiric acid
		C05	Preparation of Phenyl Azo Beta napthol
CHECE2	CHEMISTRY-VIII Cluster Elective 2 Paper-	C01	To discuss the concept of Organic Photochemistry. Different types of Transitions
	VIIIA Advanced Organic	C02	Norrish type-1& Norrish type-1I cleavage. Mechanism and Stereo chemistry.
	reactions.	C03	To understand the Protecting groups &Organic reactions.
		C04	To understand the concept Synthetic reactions and its applications.
		C05	To understand the concept of new Synthetic reactions
	CHEMISTRY-VIII Cluster Elective 2 Paper- VIIIA Practical	C01	Green Procedure for Organic Qualitative Analysis
		C02	Preparation of Acetanilide
	Green Chemistry Practicals	C03	EAS Reactions : Nitration of Phenol
		C04	Green oxidation reaction :Synthesis of Adipic acid
		C05	Green Procedure for Organic Preparation: Synthesis of Benzillic Acid from Benzil
CHECE3	CHEMISTRY-VIII Cluster Elective-3	C01	To understand the concept & different terms in pharmaceutical Chemistry.
	Paper- VIII Pharmaceutical	C02	Understand the nomenclature, classification & therapeutic activity.
	&Medicinal Chemistry.	C03	Synthesis & therapeutic activity of the compounds- Psychotherapeutic drugs& Chemotherapeutic drugs.
		C04	To discuss about the Pharmacodynamics drugs – Antiasthma &diuretic drugs.
		C05	To understand the concept of HIV/ AIDS. Prevention of AIDS.
	CHEMISTRY– Practical -VIII-C3 Pharmaceutical	C01	<ul><li>Available drugs with examples.</li><li>In a specialization domain of her choice, student will be able to choose an appropriate topic for study and will be able to clearly formulate&amp; state a research problem .</li></ul>
		checkingtechniquestechniquestechniquescheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingcheckingchecking	techniques         C02           itechniques         C03           C03         C04           C05         C05           CHEMISTRY-VIII Cluster Elective 1         C01           Paper-VIII Paper-VIII Organic Preparations         C02           CHECE2         CHEMISTRY-VIII Cluster Elective 2 Paper- VIIIA Advanced Organic reactions.         C01           C04         C05         C04           C05         C04         C05           CHECE2         CHEMISTRY-VIII Cluster Elective 2 Paper- VIIIA Advanced Organic reactions.         C01           C05         CHEMISTRY-VIII Cluster Elective 2 Paper- VIIIA Practical Green Chemistry Practicals         C01           C05         CHEMISTRY-VIII Cluster Elective 3 Paper- VIII Pharmaceutical &Medicinal Chemistry.         C01           C05         CHEMISTRY-VIII Cluster Elective-3 Paper- VIII Pharmaceutical &Medicinal Chemistry.         C01           C05         CHEMISTRY-VIII Cluster Elective-3 Paper-VIII         C01           C05         CHEMISTRY-VIII Cluster Elective-3 Paper-VIII         C01           C05         CHEMISTRY-VIII Cluster Elective-3 Paper-VIII         C02           C05         CHEMISTRY-VIII         C03           C05         CHEMISTRY-VIII         C01           CMED         CMED         C03     <

P.G.         Paper I         Chemistry.         Coli         Coli         Coli a solected research tops, studient will be able to complue relevant data, inserpret & analyze it and test the hypotheses wherever applicable           VI         Synthetic Organic Chemistry         Coli         Identify the importance of reagents used in the synthesis of organic compounds.           VI         Synthetic Organic Chemistry         Coli         Identify the importance of rearo synthesis in organic chemistry.           VI         Analysis of Organic Chemistry.         Coli         Identify the importance of rearo synthesis in organic chemistry.           VI         Analysis of Organic Chemistry.         Coli         Identify the importance of reas spectrometry in the structural elucidation of organic compounds.           VI         Analysis of Organic Chemistry.         Coli         Identify the importance of reas spectrometry in the structural elucidation of organic compounds.           VI         Analysis of Organic Chemistry.         Coli         Identify the importance of reas spectrometry in the structural elucidation of organic compounds.           VI         Eneral Chemistry.         Coli         Identify the importance organic compounds.           VI         Demostrate the knowledge constructural elucidation of organic compounds.         Coli           VI         Demostrate the knowledge constructural elucidation of organic compounds.         Coli           VI				1	
Image: constraint of the synthesis of constraint of the synthesis of constraint of the synthesis of organic compounds.         Constraint of the synthesis of organic compounds.           VI         Chemistry         Coll         Identify the importance of reagents used in the synthesis of organic compounds.           VI         Coll         Comprehend the applications of different reactions in synthetic organic chemistry.           Coll         Comprehend the applications of different reactions in synthetic organic chemistry.           Coll         Comprehend the applications of different reactions in synthetic organic compounds.           CO2         Acquire the knowledge on structural elucidation of organic compounds.           CO3         Understand various chromatography methods in the separation and alentification of organic compounds.           CO4         Demonstrate the knowledge gained in solvent extraction for the separatic her organic compounds.           CO4         Demonstrate the knowledge gained in solvent extractions for the separate her organic compounds.           1         Demonstrate the knowledge gained in solvent extractions for the separate her organic compounds.           1         Demonstrate the knowledge gained in solvent extractions for the separate her organic compounds.           1         Demonstrate the involvent and the reatment of analytical data, standard error of man. testing for significance . linear least square analysis for man, testing for significance . linear least square analysis apoproximate method sand the reather of time analysis.			&Medicinal	C02	For a selected research topic, student will be able to compile
SEM VI         CHE6C Chemistry         Synthetic Organic Chemistry         Col Col Col Col Col Col Col Col Col Col			Chemistry.		
SEM VI         Chemistry         CMI         organic compounds.           VI         Acquire knowledge on basic concepts indifferent types of pericyclic reactions.         Acquire knowledge on basic concepts indifferent types of pericyclic reactions.           C03         Understand the importance of retro synthesis in organic chemistry.         Compounds           C14         Comprehend the applications of different reactions in synthetic organic chemistry.           C04         Identify the importance of mass spectrometry in the structural elucidation of organic compounds.           C02         Acquire the knowledge constructural elucidation of organic compounds.           C03         Understand various chromatography methods in the separation and identification of organic compounds.           P.G SEM- I         Paper I         General Chemistry         C01         To understand the treament of analytical data, standard error of mean, testing for significance, linear least square analysis           O         To understand the types of indicators and its applications         C03         To understand the types of indicators of flowcharts and data statement.           Paper II         Inorganic Chemistry         C01         To understand the Introduction to exact quantum mechanical results, approximate methods and angular moment, concept of schrodinger wave equation, variation theorem, eigen functions.           C03         To understand the netal ligand bonding, concept of crystal field theory and molecular orbital theory of schrodinger w					
SEM VI         Chemistry         organic compounds.           C02         Acquire knowledge on basic concepts indifferent types of percyclic reactions.           C03         Understand the importance of retro synthesis in organic chemistry.           C04         Comprehend the applications of different reactions in synthetic organic chemistry.           C04         Memistry         Compounds           C05         Understand the importance of mass spectrometry in the structural chicidation of organic compounds.           C04         Memistry the knowledge constructural chicidation of organic compounds.           C03         Understand various chromatography methods in the separation and identification of organic compounds.           C04         Demonstrate the roganic chemistry of mean, testing for significance , linear least square analysis compounds is applications           C05         To understand the treatment of analytical data, standard error of nean, testing for significance , linear least square analysis compound is applications           C04         Demonstrate the roganic chemistry and potentiometry . concept of iter-lambert's law, types of electrodes and its applications           C05         To understand the regresory data statement.           C061         To understand the regresory data statement.           C03         To understand the chemistry of non-transition elements, structure and bonding. Concept of interbalogen compounds. Eductodes and its applications           Pap	a== -	CHE6C	•	C01	
Paper II         Inorganic Chemistry         CO1         Understand the importance of retro synthesis in organic chemistry.           Per III         Inorganic Chemistry         CO1         Identify the importance of mass spectrometry in the structural elucidation of organic compounds.           C01         Identify the importance of mass spectrometry in the structural elucidation of organic compounds.         CO2           C02         Acquire the knowledge constructural elucidation of organic compounds.         CO3           C03         Understand various chromatography methods in the separaton and identification of organic compounds.           C04         Demonstrate the knowledge gained in solvent extraction for the separato end various chromatography methods in the separaton and identification of indicators and its applications           1         Inorganic Chemistry         CO1         To understand the treatment of analytical data, standard error of mean, testing for significance linear least square analysis           C03         To understand the inspectrophotometry and potentiometry . concept of beer-lambert's law, types of electrodes and its applications           C04         To understand the inspectrophotometry and potentiometry data square analysis.           C04         To understand the inspectrophotometry and potentiometry . concept of flow-hars and data square analysis.           C04         To understand the inspectrophotometry and potentiometry . concept of flow-hars and data square analysis.           C04 <td< td=""><td></td><td></td><td>Chemistry</td><td></td><td></td></td<>			Chemistry		
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CO2     To understand the surface phenomena and phase		Paper IV	Physical Chemistry	COI	
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equilibrium, surface active agents, BET equation,				CO2	1 I
					equilibrium, surface active agents, BET equation,

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			CO3	To understand the concept of electrochemistry, Nernst
				equation, debye-Huckelonsagar equation.
			CO4	To understand the concept of chemical kinetics, primary and
				secondary salt effects and chain reactions
	Practical -	Inorganic chemistry	CO1	Volumetric and gravimetric analysis acid base titrations,
	1			redox titrations complex metric titrations and miscellaneous
	D (1 1 2			titrations
	Practical-2	Organic chemistry	CO1	Preparation and purification organic compounds involving in
	D ( 1		001	one and two step process
	Practical-	Physical chemistry	CO1	Distribution coefficient, rate constant, relative strength of
	3			acids, critical solution temperature
	Paper I	General Chemistry	CO1	To understand the concept of symmetry and group theory,
				concept of orthogonality theorem and its importance
			CO2	To understand the microwave and infrared spectroscopy.
				Concept of microwave spectra of polyatomic molecules,
			002	born-oppenheimer approximation.
			CO3	To understand the raman, visible and ultraviolet
				spectroscopy. Concept of resonance raman spectroscopy,
				electronic spectra of polyatomic molecules –instrumentation
			CO4	-applications
				To understand the concept of nuclear magnetic and electron
				spin resonance spectroscopy, coupling constant. Chemical shift, g factor, hyperfine coupling constant
	Dapar II	Inorganic Chemistry	CO1	To understand the concept of nonmetal cages and metal
	Paper II			clusters, structure and bonding in higher boranes. Discuss
				the concept of metal clusters and its applications.
				Preparation, structure and bonding in different complexes.
			CO2	To discuss the concept of organic metallic complexes of
				transition metals and its classification- applications of
				organo metallic compounds, bio chemical aspects of iron
				and cobalt
			CO3	To discuss the concept of reaction mechanisms of transition
			000	metal complexes and its factors, importance of photo
				reactions in various fields.
			CO4	To understand the concept of transition metal complex and
				change transfer spectra
	Paper III	Organic Chemistry	CO1	To understanding the concept of synthetic methods and
				Named reactions and its mechanisms
			CO2	To understanding the concept of Aliphatic Nucleophilic
				Substitutions SN1,SN2,mixed SN1and SN2Aromatic
				nucleophilic substitution SNAr, SN1 and
				benzynemechanisms
			CO3	To understanding the concept of Eliminations of protecting
P.G				agents and molecular rearrangements of during eliminations
SEM-II			CO4	To understand the concept of Chemistry of natural
				products, Chemistry and synthesis of Alkaloids Lower
				terpenoidsand Quinones
	Paper IV	Physical Chemistry	CO1	To understand Thermodynamics, third law and statistical
				thermodynamics and its limitations
			CO2	To understand the polymer chemistry, end group analysis,
				osmometry
			CO3	To understand the electrochemistry double layer at the
				interface, buttlervolmer equation and its applications
			CO4	To understand the photochemistry and chemical kinetics,
				quantum yield and enzyme catalysis
	Practical-1	Inorganic Chemistry	CO1	To understand the Semi micro Qualitative Analysis of an
				Inorganic mixture containing three cations and three anions
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Practical-	Organic	CO2	To understand the Semi micro Qualitative Analysis of an
1I	Chemistry		Organic compound and its derivatives.
Practical- 1II	Physical Chemistry	CO3	Instrumental analytical methods –Potentiometry ,conductometry and <sup>pH metry</sup> .

## JMJ COLLEGE FOR WOMEN(A), TENALI

PO's and PSO's

Programme		BA(Spl.English,Spl.Telugu,Spl.Economics,History&Politics)
Programme	PO1	.Critical Thinking: Take informed actions after identifying the
Outcomes		assumptions that frame our thinking and actions, checking out the
		degree to which these assumptions are accurate and valid, and
		looking at our ideas and decisions (intellectual, organizational, and
		personal) from different perspectives.
	PO2	.Effective Communication: Speak, read, write and listen clearly in
		person and through electronic media in English and in one Indian
		language, and make meaning of the world by connecting people,
		ideas, books, media and technology.
	<b>PO3</b> .	Social Interaction: Elicit views of others, mediate disagreements
		and help reach conclusions in group settings.
	PO4	Effective Citizenship: Demonstrate empathetic social concern and
		equity centred national development, and the ability to act with an
		informed awareness of issues and participate in civic life through
		volunteering.
	PO5	Ethics: Recognize different value systems including your own,
		understand the moral dimensions of your decisions, and accept
		responsibility for them.
	PO6	Environment and Sustainability: Understand the issues of
		environmental contexts and sustainable development.
	<b>PO7</b>	. Self-directed and Life-long Learning: Acquire the ability to
		engage in independent and life-long learning in the broadest
		context socio-technological change
Programme Specific		The faculty familiarizes students withdebates about culture, the delineation
Outcomes	PSO1	of high and low culture and help them engage
		with debates about the canonical and non-canonical, and investigate the
		category ofliterary and non-literary fiction.
	PSO2	Help the students to apply analytical skills to social phenomena in order to
		understand human behavior.
	PSO3	Knowledge of multiple perspectives throughwhich significant

		developments in the history of theIndian subcontinent from earliest times up to theperiod after independence.
Programme		B.Com(General &Computers)
Programme Outcomes	PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
	PO2	Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
	<b>PO3</b> .	Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.
	PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
	PO5	Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
	PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
	PO7	Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological change
Programme Specific Outcomes	PSO1	The projects assigned to students helps inimproving their Interpersonal andCommunication Skill.
	PSO2	The course gives an understanding of Ethical,Social Sustainable Business Issue
		BSc (MPC,CBZ,MPCs,MSCs&HSc)
Programme Programme Outcomes	PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
	PO2	Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
	<b>PO3</b> .	Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.

	PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
	PO5	Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
	PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
	PO7	Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological change
Programme Specific Outcomes	PSO1	Understand, analyze and develop computer programs in the areas related to algorithms, multimedia and web design for efficient design of computer-based systems of varying complexity. Perform Programs in the programming languages of C, C++, Java, DS, C#. Net, DBMS, Web Technologies.Understanding the applications of computer Science in Office work,Software development, Photo Studios and Internet centers
	PSO2	The laboratory procedures followed by the students to gain practical knowledge about the specimen observation and its classification depending on the observed characteristics, Alkalinity, concentration of oxygen in the given water sample and also analysis of human blood regarding types of blood groups( A,B,AB,O),Estimation of Hemoglobin, total count of RBC ,WBC etc.
Programme		MA English
Programme Outcomes	PO1	Attained profound Expertise in Discipline
		Acquired Ability to function in multidisciplinary Domains
	PO2	Acquired Ability to function in multidisciplinary Domains
	PO2 PO3	Acquired Ability to function in multiclisciplinary Domains Attained ability to exercise Research Intelligence in investigations and Innovations
		Attained ability to exercise Research Intelligence in investigations and
	PO3	Attained ability to exercise Research Intelligence in investigations and Innovations         Learnt Ethical Principles and be committed to Professional Ethics         Incorporated Self-directed and Life-long Learning
	PO3 PO4 PO5 PO6	Attained ability to exercise Research Intelligence in investigations and Innovations         Learnt Ethical Principles and be committed to Professional Ethics         Incorporated Self-directed and Life-long Learning         Obtained Ability to maneuver in diverse contexts with Global Perspective
	PO3 PO4 PO5 PO6 PO7	Attained ability to exercise Research Intelligence in investigations and Innovations         Learnt Ethical Principles and be committed to Professional Ethics         Incorporated Self-directed and Life-long Learning         Obtained Ability to maneuver in diverse contexts with Global Perspective         Attained Maturity to respond to one's calling
Programme Specific	PO3 PO4 PO5 PO6	Attained ability to exercise Research Intelligence in investigations and InnovationsLearnt Ethical Principles and be committed to Professional EthicsIncorporated Self-directed and Life-long LearningObtained Ability to maneuver in diverse contexts with Global PerspectiveAttained Maturity to respond to one's callingAcquire the knowledge of great literary traditions due to their strong
Programme Specific Outcomes	PO3 PO4 PO5 PO6 PO7 PSO1	Attained ability to exercise Research Intelligence in investigations and InnovationsLearnt Ethical Principles and be committed to Professional EthicsIncorporated Self-directed and Life-long LearningObtained Ability to maneuver in diverse contexts with Global PerspectiveAttained Maturity to respond to one's callingAcquire the knowledge of great literary traditions due to their strong influence on British and American literature
	PO3 PO4 PO5 PO6 PO7 PSO1 PSO2	Attained ability to exercise Research Intelligence in investigations and InnovationsLearnt Ethical Principles and be committed to Professional EthicsIncorporated Self-directed and Life-long LearningObtained Ability to maneuver in diverse contexts with Global PerspectiveAttained Maturity to respond to one's callingAcquire the knowledge of great literary traditions due to their strong influence on British and American literatureStudents understand Shakespeare texts in the light of recent approaches
	PO3 PO4 PO5 PO6 PO7 PSO1	Attained ability to exercise Research Intelligence in investigations and InnovationsLearnt Ethical Principles and be committed to Professional EthicsIncorporated Self-directed and Life-long LearningObtained Ability to maneuver in diverse contexts with Global PerspectiveAttained Maturity to respond to one's callingAcquire the knowledge of great literary traditions due to their strong influence on British and American literatureStudents understand Shakespeare texts in the light of recent approachesIt Enhanced the Employability skills through Communicative Skills,
	PO3 PO4 PO5 PO6 PO7 PSO1 PSO2	Attained ability to exercise Research Intelligence in investigations and InnovationsLearnt Ethical Principles and be committed to Professional EthicsIncorporated Self-directed and Life-long LearningObtained Ability to maneuver in diverse contexts with Global PerspectiveAttained Maturity to respond to one's callingAcquire the knowledge of great literary traditions due to their strong influence on British and American literatureStudents understand Shakespeare texts in the light of recent approaches
	PO3 PO4 PO5 PO6 PO7 PSO1 PSO2	Attained ability to exercise Research Intelligence in investigations and InnovationsLearnt Ethical Principles and be committed to Professional EthicsIncorporated Self-directed and Life-long LearningObtained Ability to maneuver in diverse contexts with Global PerspectiveAttained Maturity to respond to one's callingAcquire the knowledge of great literary traditions due to their strong influence on British and American literatureStudents understand Shakespeare texts in the light of recent approachesIt Enhanced the Employability skills through Communicative Skills, Professional Communication Skills, Creative Writing, Advance Academic
Outcomes	PO3 PO4 PO5 PO6 PO7 PSO1 PSO2 PSO3	Attained ability to exercise Research Intelligence in investigations and InnovationsLearnt Ethical Principles and be committed to Professional EthicsIncorporated Self-directed and Life-long LearningObtained Ability to maneuver in diverse contexts with Global PerspectiveAttained Maturity to respond to one's callingAcquire the knowledge of great literary traditions due to their strong influence on British and American literatureStudents understand Shakespeare texts in the light of recent approachesIt Enhanced the Employability skills through Communicative Skills, Professional Communication Skills, Creative Writing, Advance Academic Writing and technical writing for BusinessM Com
	PO3 PO4 PO5 PO6 PO7 PSO1 PSO2	Attained ability to exercise Research Intelligence in investigations and InnovationsLearnt Ethical Principles and be committed to Professional EthicsIncorporated Self-directed and Life-long LearningObtained Ability to maneuver in diverse contexts with Global PerspectiveAttained Maturity to respond to one's callingAcquire the knowledge of great literary traditions due to their strong influence on British and American literatureStudents understand Shakespeare texts in the light of recent approachesIt Enhanced the Employability skills through Communicative Skills, Professional Communication Skills, Creative Writing, Advance Academic Writing and technical writing for Business
Outcomes Programme	PO3 PO4 PO5 PO6 PO7 PSO1 PSO2 PSO3 PSO3	Attained ability to exercise Research Intelligence in investigations and Innovations         Learnt Ethical Principles and be committed to Professional Ethics         Incorporated Self-directed and Life-long Learning         Obtained Ability to maneuver in diverse contexts with Global Perspective         Attained Maturity to respond to one's calling         Acquire the knowledge of great literary traditions due to their strong influence on British and American literature         Students understand Shakespeare texts in the light of recent approaches         It Enhanced the Employability skills through Communicative Skills, Professional Communication Skills, Creative Writing, Advance Academic Writing and technical writing for Business <b>M Com</b> Attained profound Expertise in Discipline         Acquired Ability to function in multidisciplinary Domains         Attained ability to exercise Research Intelligence in investigations and
Outcomes Programme	PO3 PO4 PO5 PO6 PO7 PSO1 PSO2 PSO3 PSO3	Attained ability to exercise Research Intelligence in investigations and InnovationsLearnt Ethical Principles and be committed to Professional EthicsIncorporated Self-directed and Life-long LearningObtained Ability to maneuver in diverse contexts with Global PerspectiveAttained Maturity to respond to one's callingAcquire the knowledge of great literary traditions due to their strong influence on British and American literatureStudents understand Shakespeare texts in the light of recent approachesIt Enhanced the Employability skills through Communicative Skills, Professional Communication Skills, Creative Writing, Advance Academic Writing and technical writing for BusinessM ComAttained profound Expertise in Discipline Acquired Ability to function in multidisciplinary Domains

	PO6	Obtained Ability to maneuver in diverse contexts with Global Perspective
	PO7	Attained Maturity to respond to one's calling
	PSO1	The students should keep Qualities of Researcher and Formation of
Programme Specific	1501	Research Proposal
Outcomes	PSO2	Know the types of research, Sample design and Sample techniques .
	PSO3	Understand the procedure for data collection and applying statistics to solve problems.
		M. Sc- Chemistry
Programme	PO1	Attained profound Expertise in Discipline
Outcomes	PO2	Acquired Ability to function in multidisciplinary Domains
	PO3	Attained ability to exercise Research Intelligence in investigations and Innovations
	PO4	Learnt Ethical Principles and be committed to Professional Ethics
	PO5	Incorporated Self-directed and Life-long Learning
	PO6	Obtained Ability to maneuver in diverse contexts with Global Perspective
	PO7	Attained Maturity to respond to one's calling
Programme Specific	PSO1	Global level research opportunities to pursue Ph.Dprogramme targeted
Outcomes	1501	approach of CSIR – NET examination .
	PSO2	Enaromous job oppurtunities at all level of chemical, pharmaceutical,
		food products ,life oriented material industries.
		Specific placements in R & D and synthetic division of polymer industries
		& Allied Division.
	PSO3	Discipline specific competitive exams conducted by service commission
		MSc Maths
Programme	PO1	Attained profound Expertise in Discipline
Outcomes	PO2	Acquired Ability to function in multidisciplinary Domains
	PO3	Attained ability to exercise Research Intelligence in investigations and Innovations
	PO4	Learnt Ethical Principles and be committed to Professional Ethics
	PO5	Incorporated Self-directed and Life-long Learning
	PO6	Obtained Ability to maneuver in diverse contexts with Global Perspective
	PO7	Attained Maturity to respond to one's calling
Programme Specific	PSO1	Understand the mathematical concepts and applications in the field of
Outcomes		algebra, analysis, computational techniques, optimization, differential
		equations, engineering, finance and actuarial science.
	PSO2	Handle the advanced techniques in algebra, analysis, computational
		techniques, optimization, differential equations, engineering, finance and
		actuarial science to analyze and design algorithms solving variety of
		problems related to real life problems.
	1	