



G. VENKATASWAMY NAIDU COLLEGE,
(Re-Accredited with 'A' grade by NAAC & Autonomous)
Affiliated to the Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu.
KOVILPATTI – 628 502.

PART – I FIRST SEMESTER

LANGUAGE: Tamil – I (U20TA1L1)

Co. No.	Course Outcome
CO 1	புதுக்கவிதைகளைப்படிக்கஆர்வத்தைஏற்படுத்தும்
CO 2	எழுத்திலக்கணத்தில்தெளிவினைஏற்படுத்தும்
CO 3	இக்காலஇலக்கியங்களின்வகைமையையும்வளர்ச்சியையும்அறியச்செய்யும்
CO 4	ஆய்வுக்கட்டுரைகளைஎழுதணக்குவிக்கும்
CO 5	சிறுகதைப்படைப்பாளர்களைஉருவாக்கும்

PART – I SECOND SEMESTER

LANGUAGE: Tamil – II (U20TA2L2)

Co.No	Course Outcome
CO 1	பக்திஇலக்கியங்கள்வழியாகசமயஒருமைப்பாட்டைவளர்க்கும் வாழ்வதற்குஅறஇலக்கியங்கள்அடிப்படையானவைஎன்பதைஉணரவைக்கும்
CO 2	இறைநெறிக்கோட்பாட்டைப்பின்பற்றச்செய்யும்
CO 3	சொல்லிலக்கணக்கோட்பாடுகளைத்தெளிவுபடுத்தும்
CO 4	தனிமனிதஒழுக்கத்தைக்கற்றுக்கொடுக்கும்

DEPARTMENT OF ENGLISH

PART – II FIRST SEMESTER

ENGLISH: ENGLISH FOR ENRICHMENT – I (U20EN1L1)

Co.No	Course outcomes
CO1	Enrich the students' knowledge through various perspective readings in Literary piece.
CO2	Understand the basic nuances of reading and writing in English.
CO3	Apply the basic grammar of English in his career and day to day life.
CO4	Enhance competence in the four modes (LSRW).
CO5	Empower students to listen better and speak English correctly.

PART – II SECOND SEMESTER

ENGLISH: ENGLISH FOR ENRICHMENT – II (U20EN2L2)

CO No.	Course outcomes
CO1	Acquire the knowledge of the best literary works in English
CO2	Comprehend and appreciate the creative use of Language
CO3	Apply the formal and informal writing in various social contexts
CO4	Analyze the creativity of language through literature
CO5	Develop students' public speaking ability which elevates interpersonal skills

DEPARTMENT OF MATHEMATICS (UG)**FIRST SEMESTER****CORE - 1: CALCULUS (U20MA101)**

CO No.	Course Outcome
CO1	Find the series solutions of radius of curvature, pedal equations.
CO2	Demonstrate beta and gamma function, curvature.
CO3	Application of maxima and minima, multiple points, p-rEquations.
CO4	Analyze the asymptotes, Jacobians.
CO5	Evaluate double and triple integrals, change of variables in double and triple integrals

CORE - 2: CLASSICAL ALGEBRA(U20MA102)

CO No.	Course Outcome
CO1	Understand various methods of solving equations.
CO2	Analyze the nature of the roots of the equations.
CO3	Form different kind of equation using transformation.
CO4	Determine the sum of the series and determine approximate value of real root by Newton's method and Horner's method.
CO5	Gain knowledge of removal of terms using theorems like Rolle's theorem and Sturm's theorem.

ELECTIVE GENERIC - 1: THEORY OF EQUATIONS AND MATRICES(U20PH1A1)

CO No.	Course Outcome
CO1	Familiar with the concept of Eigen values and Eigen vectors.
CO2	Understand the theory of equations, relation between the roots and coefficients, reciprocal equations.
CO3	Apply concept of matrices, characteristic equation of a Matrix.
CO4	Analyze the properties of Theory of equations, Simultaneous linear equations.
CO5	Explain transformation of equations, approximations solutions to equation, Newton's and Horner's method.

SECOND SEMESTER**CORE - 3: ANALYTICAL GEOMETRY OF THREE DIMENSIONS(U20MA203)**

CO No.	Course Outcome
CO1	Find the angle between planes, Length of perpendicular, coplanar lines.
CO2	Demonstrate the direction cosines, the angle between two planes, the angle bisectors of two planes.
CO3	Application of Equation of a line in different forms, Sphere, Tangent plane.
CO4	Analyze Shortest distance between two lines, coaxial system of spheres, Radical Planes.
CO5	Evaluate Equation of a cone , cone with vertex at the origin, Tangent plane and normal, Right circular cylinder, enveloping cylinder.

CORE - 4: DIFFERENTIAL EQUATIONS(U20PS2PE)

CO No.	Course Outcome
CO1	Solvable for x, y, p, linear equations of second order.
CO2	Understand the ordinary differential equation, partial differential equations.
CO3	Application of Lagrange's differential equations.
CO4	Analyze the homogenous equations, Newton's law.
CO5	Evaluate equation reducible for homogenous equations.

ELECTIVE GENERIC - 2: VECTOR CALCULUS(U20MA2C1)

CO No.	Course Outcome
CO1	Find the solution of double and triple integrals, Volume Integrals.
CO2	Understand the divergence and curl, surface.
CO3	Apply concept of green's, stokes and divergences Theorem.
CO4	Analyze the Gradient, Vector algebra.
CO5	Explain vector differentiation, Surface and volume integrals.

DEPARTMENT OF MATHEMATICS (PG)
FIRST SEMESTER
CORE - 1: GROUP THEORY (P20MA101)

CO No.	Course Outcome
CO1	Understand the concept of Normal subgroups and Quotient groups.
CO2	Explain the Properties of Automorphism and the concept of Solvability of groups.
CO3	Remember the concept of Permutation groups.
CO4	Apply Class equation and Sylow's theorems to solve different problems.
CO5	Find the relation of Abelian groups and Direct products.

CORE 2: ANALYSIS-I (P20MA102)

CO No.	Course Outcome
CO1	Identify the basics concepts of real number system.
CO2	Demonstrate the knowledge of convergence and divergence of sequences.
CO3	Determine convergence and divergence of series using various tests.
CO4	Analyze the concept of continuous functions and their properties.
CO5	Describe properties of differentiability and study related theorems.

CORE – 3: ORDINARY DIFFERENTIAL EQUATIONS (P20MA103)

CO No.	Course Outcome
CO1	Find the series solutions of the ordinary differential equations.
CO2	Demonstrate ordinary points, singular points and Regular singular points.
CO3	Apply concept of power series solution.
CO4	Analyze the properties of Legendre polynomials.
CO5	Explain Homogeneous linear differential equations.

CORE – 4: PROBABILITY AND STATISTICS (P20MA104)

CO No.	Course Outcome
CO1	Familiar with the concept of probability and independence.

CO2	Transform the variable technique, the m.g.f. technique.
CO3	Understand the different distributions.
CO4	Solve the problems using distributions.
CO5	Apply the different techniques.

ELECTIVE – I: DIFFERENTIAL GEOMETRY (P20MA1E1A)

CO No.	Course Outcome
CO1	Recall and Analyze knowledge in space curves.
CO2	Demonstrate the metric concepts in surface.
CO3	Find geodesics on curves.
CO4	Apply surfaces of revolution.
CO5	Evaluate Principal curvature and line of curvature.

ELECTIVE – I: NUMBER THEORY (P20MA1E1B)

CO No.	Course Outcome
CO1	Recall the basic concept of Numbers and need of Number theory.
CO2	Understand the concept of Mobius function.
CO3	Apply the concept of Chebyshev's functions and its connections.
CO4	Analyze the properties of congruences and also reduced residue system.
CO5	Develop the knowledge of Number Theory in different situations.

ELECTIVE – I: CLASSICAL MECHANICS (P20MA1E1C)

CO No.	Course Outcome
CO1	Techniques of Calculus of Variation.
CO2	Understand the Simple applications of Lagrangian formulation.
CO3	Understand D' Alembert's Principle.
CO4	Find the equation of motion.
CO5	Derivation of Lagrange's equations from Hamilton's principle.

CORE – 5: RING THEORY (P20MA205)

CO No.	Course Outcome
CO1	Remember the Ring homomorphism and give some properties.
CO2	Analyze Euclidean ring with some properties and utilize the results of Euclidean ring to Gaussian integers.
CO3	Gain knowledge about ring of polynomials, prime, irreducible elements and their properties, UFD, PID and Euclidean domains, prime ideals, maximal ideals.
CO4	Generalize ideal concept in Ring theory.
CO5	Explain the Direct sum of rings.

CORE – 6: ANALYSIS-II (P20MA206)

CO No.	Course Outcome
CO1	Identify the basics concepts of RiemannStieltjes integral.
CO2	Demonstrate the knowledge of convergence and divergence of sequences and series of functions.
CO3	Determine the difference between pointwise convergence and uniform convergence.
CO4	Analyze the concept of Fourier series.
CO5	Describe properties of some special functions and power series.

CORE – 7: GRAPH THEORY (P20MA207)

CO No.	Course Outcome
CO1	To understand the fundamental concepts in Graph Theory.
CO2	Acquire the knowledge of Eulerian and Hamiltonian graphs.
CO3	Understand the concept of colourings and their implications.
CO4	To apply graph theory based tools in solving practical problems.
CO5	To pursue research in discrete mathematics.

CORE – 8: COMBINATORICS (P20MA208)

CO No.	Course Outcome
CO1	Identify and apply the rules of sum and product in combinatorics.
CO2	Discuss the distributions of distinct objects, identical objects and its application in counting principle.

CO3	Use generating function as a tool for solving counting problems.
CO4	Formulate recurrence relation for counting problems and solve them using known techniques including the generating functions.
CO5	Outline the principle of inclusion and exclusion and solve counting problems.

ELECTIVE – II: OPERATIONS RESEARCH (P20MA2E2A)

CO No.	Course Outcome
CO1	Identification of actual problems and its equivalent mathematical models.
CO2	Gain knowledge of Queuing model.
CO3	Application to different optimization techniques in real life situations.
CO4	Evaluate Integer Programming Solutions.
CO5	Relate the exponential and Poisson distribution.

ELECTIVE – II: FLUID DYNAMICS (P20MA2E2B)

CO No.	Course Outcome
CO1	Recall the curvilinear coordinates.
CO2	Demonstrate the properties of fluids.
CO3	Solve the equations of motion of a fluid when it is at rest and in motion.
CO4	Analyze three dimensional flow and explain Stoke's stream function.
CO5	Find complex velocity potentials for standard two dimensional flows.

ELECTIVE – II: STOCHASTIC PROCESSES (P20MA2E2C)

CO No.	Course Outcome
CO1	Recall Markov chains and explain the generalization of independent Bernoulli trials.
CO2	Classify states and chains and analyze stability of a Markov system.
CO3	Demonstrate and apply renewal theorems.
CO4	List and illustrate renewal processes in continuous time using Wald's equation.
CO5	Analyze transient behaviour of Queuing models.

SKILL ENHANCEMENT COURSE – I: LATEX (P20MA2S1)

CO No.	Course Outcome
CO1	Recall the basics of LATEX software while preparing a Document.

CO2	Understand the Mathematical formulas and Drawing tools of LATEX.
CO3	Develop the knowledge of investigating and learning new LATEX.
CO4	Set page style and Constructing tables.
CO5	Commands names and arguments.

**TEACHING SKILLS: TEACHING AND LEARNING PROCESS AND CORE
TEACHING SKILLS (P20TS201)**

CO No.	Course Outcome
CO1	Analyze the concept of teaching and its relationship with learning process in the classroom.
CO2	Understand the nature of learner in the present study context.
CO3	Understand the needed shifts in teaching-learning process.
CO4	Articulate subject related broad objectives in terms of specific relations objectives.
CO5	Demonstrate core teaching skills at competence level.

**DEPARTMENT OF PHYSICS
FIRST SEMESTER
CORE - 1: MECHANICS (U20PH101)**

CO No.	Course outcome
CO1	Grasp the basic concept of mechanics such as force, work, inertia, momentum and hydrostatics etc.
CO2	Explore more knowledge about gravitation, satellite and rocket population system.
CO3	Understand the fundamentals of mechanics, Collisions, Projectile and special theory of relativity.
CO4	Learn conservation laws of energy, linear and angular momentum and apply them to solve problems
CO5	Determine the centre of gravity of different shapes of solids and centre of Pressure of laminas immersed in liquid.

CORE 2: PROPERTIES OF MATTER AND ACOUSTICS (U20PH102)

CO No.	Course Outcome
CO1	Define and explain the fundamentals of elasticity, surface tension, viscosity etc.
CO2	Illustrate bending moments, uniform and non-uniform bending.
CO3	Summarize the concepts of properties of a matter, its implications and analyze it.
CO4	Understand the basic concepts of simple harmonic motion , laws of vibration, sound and musical scale.
CO5	Describe the key concepts of Ultrasonics and acoustics.

ELECTIVE GENERIC - 1: PHYSICS - I(U20PH1A1)

CO No.	Course Outcome
CO1	Impart knowledge of fundamental physics in a broader context.
CO2	Understand the concept of Elasticity, viscosity, surface tension and its applications.
CO3	Understand the methodology of movement of heat energy
CO4	learn about the concept of sound
CO5	Learn the principles of Interference, Diffraction and polarization and the experiments related to them.

SECOND SEMESTER**CORE 3: HEAT AND THERMODYNAMICS (U20PH203)**

CO No.	Course outcome
CO1	understand the working of Refrigerator and Air-conditioner.
CO2	Recognize and understand the methodology of movement of heat energy.
CO3	Inspect the Heat Engine and estimate the efficiency of heat engine.
CO4	Know the laws of thermodynamics and also the different problem-solving methods in the field.

CORE 4: OPTICS (U20PH204)

CO No.	Course Outcome
CO1	Describe and discuss the key concepts in geometrical optics, eyepieces.
CO2	Explain and illustrate the concepts in wave optics – interference, diffraction and polarization.
CO3	Categorize different types of laser and rate equation.
CO4	Explain Key concepts in fibre optics and its applications.

ELECTIVE GENERIC – 2: PHYSICS– II(U20PH2A2)

CO No.	Course Outcomes
CO1	Understand the fundamental of electricity and its application
CO2	Learn the basics of the Magnetic behaviour of various materials.
CO3	Understand the characteristics diodes, Transistor and their applications.Learn the fundamentals of number system viz., -Binary, and decimal numbers.Construct logic gates using discrete components andApply De Morgan`s theorem in Boolean algebra.
CO4	Acquire basic knowledge about nuclear properties such as mass, spin, radius, binding energy etc.
CO5	Gain basic knowledge of relativity.

CORE LAB: PHYSICS PRACTICAL – I (U20PH2P1)

CO No	Course Outcomes
CO1	Understand the experimental ideas related with Mechanics, Properties of matter, Thermal Physics and Optics.
CO2	Develop the skill of performing experiments accurately and analyze observations.
CO3	By constructing the experimental setup and making meaningful conclusions.

ELECTIVE GENERIC LAB: PHYSICS PRACTICAL (U20PH2AP)

CO No	Course Outcomes
CO1	Understand the experimental ideas related with Properties of matter, Thermal Physics, Electricity, Electronics and Optics.
CO2	Develop the skill of performing experiments accurately.
CO3	Understanding the applications of transistors and diodes.
CO4	Analyze the observations and make meaningful conclusions.

DEPARTMENT OF CHEMISTRY**FIRST SEMESTER****CORE – 1: INORGANIC CHEMISTRY – I (U20CH101)**

CO No	Course Outcome
CO1	recall the basic concepts of atomic structure, periodic table, periodic properties, chemical bonding and properties of s and p block elements.
CO2	understand the arrangement of elements in the periodic table, the periodicity in properties, principles of bonding and the general characteristics and properties of s and p block elements.
CO3	apply Pauli's exclusion principle, Hund's rule and Aufbau principle to filling up of atomic orbitals. the concept of hybridization to geometry of molecules, VBT, MOT and VSEPR theory to molecules.
CO4	analyse various atom models, theories of chemical bonding, the position of elements in the P.T., the general characteristics of s block and p block elements and their preparation and properties.
CO5	Evaluate and justify the position of elements in the P.T.

Core – 2: Physical Chemistry – I (U20CH102)

CO No	Course Outcome
CO1	recall the concepts of gaseous state, photochemistry, nuclear chemistry, solid state and dilute solutions.
CO2	differentiate various states of matter and thermal and photochemical reactions.
CO3	explain the principles of radioactivity.
CO4	Analyse the crystal structure and crystal defects in solids.
CO5	evaluate and explain the properties of dilute solutions.

SECOND SEMESTER**Core Practical - I: Inorganic Quantitative Analysis (Volumetric method) (U20CH2P1)**

CO No	Course Outcome
CO1	recall the principles of volumetric titrations.
CO2	demonstrate the experimental skills in volumetric titration.
CO3	apply the volumetric formula to calculate strengths of solutions.
CO4	analyse the theory of indicators and employ it in volumetric titrations.
CO5	evaluate and interpret the results of Volumetric Analysis.

Elective Generic I: Allied Chemistry- I (U20CH1A1)

CO No	Course Outcome
CO1	Recall the atomic structure, bonding, Hybridization and VSEPR theory, Heterolytic and Homolytic cleavage, Neucleophiles and electrophiles, Carbonium and carbanions, photochemistry, Photochemical process, Polymers, Lubricants.
CO2	Understand the atomic structure, bonding, Hybridization and VSEPR theory, Heterolytic and Homolytic cleavage, Neucleophiles and electrophiles, Carbonium and carbanions, photochemistry, Photochemical process, Polymers, Lubricants.
CO3	Apply the rules for writing electronic configuration of an atom , orbital overlapping, Illustrate the Heterolytic and Hemolytic cleavage, identify Neucleophiles and electrophiles Properties of reaction intermediate, Laws of photochemistry, Preparation and properties and uses of polymers, Criteria of good lubricating oils, Advantages and disadvantages of various types lubricants.
CO4	To study about various types of Bonding, Classification of reaction intermediates, comparison of thermal and photochemical reactions, different types of polymers and polymerization reactions, Bonding, classification of polymers and Lubricants.
CO5	Explain Hybridization, VSEPR theory, various types of reactions and reaction intermediates, Photochemical process and photochemical reactions, Quantum yield. Thermoplastics and thermosetting plastics, Elastomers. Preparation and uses of some chemicals used in our day- to-day life

Elective Generic Practical I: Inorganic Quantitative Analysis (Volumetric Method) and Organic Analysis (U20CH2AP)

CO No	Course Outcome
CO1	understand the concept of volumetric titrations and carry out volumetric titrations.
CO2	demonstrate the experimental skills in volumetric titration and organic analysis.
CO3	apply the volumetric formula to calculate the strengths of solutons, observe, infer and thereby identify the functional group present in the organic compound.
CO4	analyse and apply the theory of indicators in volumetric titration.
CO5	Evaluate and interpret the results in volumetric and organic analyses.

Second Semester

Core 3: Inorganic Chemistry II (U20CH203)

CO No	Course Outcome
CO1	rememberl the chemistry of noble gases, d and f block elements, principles of metallurgy and theory of practicals.

CO2	explain the properties of noble gases, d and f block elements, principles of metallurgy and theory of practicals.
CO3	apply the knowledge of solubility product and common ion effect in inorganic qualitative analysis and inorganic quantitative estimations.
CO4	analyse the theory of inorganic practicals, principles of metallurgy, general properties of d and f block elements.
CO5	justify the position of noble gases, d and f block elements in the periodic table.

Core 4: Organic Chemistry I (U20CH204)

CO No	Course Outcome
CO1	recall the classification and nomenclature of organic compounds.
CO2	understand the electronic theories of organic compounds.
CO3	apply Markovnikov's rule and peroxide effect to the addition reactions of unsymmetrical olefins.
CO4	analyse the electrophilic and nucleophilic substitution reactions, addition and elimination reactions.
CO5	compare and distinguish primary, secondary and tertiary alcohols and differentiate between alcohols and ethers.

Elective Generic - II: Allied Chemistry II (U20CH2A2)

CO No	Course Outcome
CO1	recall the preparation, properties and structure of aromatic compounds. and the classification of carbohydrates, amino acids and proteins.
CO2	summarise the applications of radio isotopes.
CO3	apply the knowledge about common diseases and drugs in common ailments encountered in daily life.
CO4	analyse the composition of fuels, fertilizers, soaps, cement and glass.
CO5	explain the Chemistry of carbohydrates, amino acids, proteins and nucleic acids.

Department of Botany (UG)

First Semester

Core – 1: Phycology & Bryology (U20BO101)

Co No.	Course Outcome
1.	Understand the unique and general features of Algae and Bryophytes and familiarize it
2.	Identify the external morphology, internal structure and reproduction of different types of Algae and Bryophytes
3.	Examine the possible applications of Algae
4.	Predict the Economic Importance of Algae & Bryophytes

Core – 2 Plant Anatomy and Microtechnique (U20BO102)

Co No.	Course Outcome
1.	Understand the Individual Cells and Tissues Simultaneously.
2.	Discuss the Structural Adaptations in Plants Growing in Different Environment.
3.	Understand the Nodal Anatomy and Epidermal tissue system in plants.
4.	Devise Techniques to Preserve and Study Plant Materials.

Second Semester

Core-3 Pteridophytes, Gymnosperm & Paleobotany (U20BO203)

CoNo.	Course Outcome
1.	Describe the general characters and classifications in lower forms of plants- Pteridophytes and Gymnosperms.
2.	Examine the distribution, morphology, anatomy, reproduction and life cycle of types mentioned in the syllabus
3.	Identify the economic importance of Gymnosperms and Pteridophytes
4.	Understand the significance of Paleobotany and its applications.

Core-4 Microbiology, Mycology, Lichenology & Plant Pathology (U20BO204)

Co.No.	Course Outcome
1.	Understand the world of microbes, fungi and lichens.
2.	Appreciate the adaptive strategies of the microbes, fungi and lichens.
3.	Understand the economic and pathological importance of bacteria and Fungi.
4.	Understand the ecological significance of lichens.
5.	Identify common plant diseases and device control measures.

Core Lab-1 Phycology, Bryology, Anatomy, Microtechniques, Pteridophytes, Gymnosperm, Paleobotany, Microbiology, Mycology, Lichenology & Plant Pathology (U20BO2P1)

CoNo.	Course Outcome
1.	Understand the unique and general features of Algae and Bryophytes and familiarize it.
2.	Identify the external morphology, internal structure and reproduction of different types of algae and bryophytes
3.	Understand the Individual Cells and Tissues Simultaneously.
4.	Discuss the Structural Adaptations in Plants Growing in Different Environment.
5.	Examine the classification, distribution, morphology, anatomy, reproduction and life cycle of pteridophyte types mentioned in the syllabus
6.	Examine the classification, distribution, morphology, anatomy, reproduction and life cycle of Gymnosperms types mentioned in the syllabus

7.	Understand the world of microbes, fungi and lichens
8.	Understand the economic and pathological importance of bacteria and fungi.
9.	Identify common plant diseases and device control measures.

Department of Botany (PG)

First Semester

Core – 1 Plant Diversity (Algae, Fungi, Lichen, Bryophytes, Pteridophytes and Gymnosperms) (P20BO101)

Co. No.	Course Outcome
1.	Comprehend various groups of plants
2.	Elucidate the phylogenetic sequence of plant groups
3.	Reveal the economic significance of various plant forms
4.	Scrutinize their ecological adaptations, internal organization and reproductive specialization
5.	Analyze the fossil forms and the reasons for fossilization

Core – 2 Biochemistry & Biophysics (P20BO102)

Co. No.	Course Outcome
1.	Understand the Chemical diversity in plants
2.	Impart the knowledge of forces regulating metabolism.
3.	Understand about bioenergetics.
4.	Understand the structure, function and metabolism of biomolecules in plants
5.	Understand the various aspects of enzymes and its mechanism of action

Core Lab – 1 Plant Diversity (Algae, Fungi, Lichen, Bryophytes, Pteridophytes and Gymnosperms) (P20BO1P1)

Co. No.	Course Outcome
1.	Classify various groups of plants
2.	Dissect and draw internal structures of different plant forms
3.	Isolate fungi from different sources
4.	explain the ecological adaptations and internal organization

Core Lab -2 Biochemistry & Biophysics (P20BO1P2)

Co. No.	Course Outcome
1.	Understand and workout problems related to genetics
2.	Describe the structure & function of the Biomolecules.
3.	Devise methods and tests to improve basic skills and techniques related to biochemistry
4.	Understand and apply the quantitative and qualitative analysis of biochemicals

Employability Enhancement – 1: Pomology (P20BO1EEA)

Co.No.	Course Outcome
1.	Understand the importance of pomology

2.	Classify the fruits according to scientific names.
3.	Plan the development of orchards and its management
4.	Explain the methods of post-harvest preservation requirements .

Employability Enhancement – 1: Horticultural Post harvest- Practices (P20BO1EEB)

Co. No.	Course Outcome
1.	Understand the concept of different types of horticultural crops, for value addition
2.	Visualize the post-harvest problems likely to be confronted
3.	Critically evaluate different cultivation practices and disease management
4.	Know the tricks of the trade and how to increase the longevity of the produce

Second Semester

Core – 3: Plant Ecology, and Conservation of Biodiversity (P20BO203)

Co No.	Course Outcome
1.	Reveal the facts related to environmental components
2.	Identify values of biodiversity and evolve conservation strategies
3.	Comprehend natural and anthropogenic risks related to environment
4.	Perform analytical methods in environmental management
5.	Adapt the concepts of sustainable environmental management through acquired knowledge and analytical skills

Core – 4: Cell and Molecular Biology (P20BO204)

Co No.	Course Outcome
1	Know about microscopic techniques
2	Understand the Cell signaling process
3	Understand about the basic and fundamental organization of life and genetic material
4	Explain the structure of nucleic acids
5	Recognize, compare and distinguish the processes and mechanisms involved in Transcription and Translation.

Core Lab – 3 Plant Ecology and Conservation of Biodiversity (P20BO2P3)

Co. No.	Course Outcome
1	Estimate the nutrients in water
2	Analyze the soil nutrients and Construct quadrates
3	Estimate the primary productivity of an ecosystem
4	Determine the pollutant level in water ecosystem
5	Analyze morphological and anatomical variations of xerophytes

Core Lab – 4 Cell and Molecular Biology (P20BO2P4)

Co. No.	Course Outcome
1.	memorize the types of DNA and RNA; discuss the chromosomal examination in plants
2.	demonstrate isolation methodology of DNA
3.	separate DNA from bacterial genome
4.	asses mitosis process on onion root tip
5.	organize protein synthesis technique

Core – 5 Botany for Competitive Examinations (P20BO205)

Co. No.	Course Outcome
1	To bring desired changes in student's attitude
2	Acquisition of Knowledge
3	To improve the learning skills of the students
4	To become a social and efficient member of society

Department of Computer Science (UG)

First Semester

Core – 1 Programming in C (U20CS101)

Co. No.	Course Outcome
CO1	Students will be able to remember the essential notions of C Programming
CO2	Understand the concepts of C programming
CO3	Students will be able to apply different features of C Programming to real time applications
CO4	Analyze and discover bugs in the program .
CO5	Evaluate an application using memory management functions.

Core Lab –1: C Programming lab (U20CS1P1)

Co. No.	Course Outcome
CO1	recall the mathematical functions while creating a program
CO2	understand the fundamental programming concepts
CO3	apply the concepts to find solution for the problems
CO4	illustrate the programming technique to analyze software problems
CO5	design and develop the simple application.

Elective Generic -1: Digital Principles and Application (U20CS1A1)

Co. No.	Course Outcome
CO1	design digital circuits using simplified boolean functions
CO2	apply design combinational circuits
CO3	analyze and design synchronous and asynchronous sequential circuits
CO4	evaluate programmable logic devices
CO5	implement HDL code for combinational and sequential circuits

Elective Lab –1: Office Automation (U20CS1AP)

Co. No.	Course Outcome
CO1	students will be able to understand about document and spread sheet preparation
CO2	apply formulas and make what if analysis in excel
CO3	students will have the ability to analyze different presentation styles.
CO4	evaluate database management application
CO5	create database management application

Second Semester

Core – 2: C++ Programming and Data structures (U20CS202)

Co. No.	Course Outcome
CO1	remember and understand the procedures and object-oriented programming concepts
CO2	apply advanced data structure strategies for exploring complex data structures.
CO3	analyze all data structures like stacks, queues, trees, lists and graphs and compare their performance and trade offs
CO4	evaluate data structures into the applications such as trees and graphs implement data structure algorithms through c++.
CO5	to make students as creating algorithms for real applications related to life skills.

Core Lab -2: C++ Programming and Data structures Lab (U20CS2P2)

Co. No.	Course Outcome
CO1	understand and identify the appropriate data structure for given problem
CO2	apply appropriate data structure and algorithm design method for a specified Program.
CO3	Analyze C++ concepts to all data structures algorithm like stacks, queues, trees, lists and graphs and compare their Performance and trade offs
CO4	Evaluate different implementations of data structures and to recognize the advantages and disadvantages of them.
CO5	To make students as creating algorithms for real applications related to Life Skills.

Elective Generic – 2: Discrete Mathematics (U20CS2A2)

Co. No.	Course Outcome
CO1	Understand mathematical reasoning in order to read, comprehend, and construct mathematical arguments.
CO2	Remember enumerate objects and perform combinatorial analysis.
CO3	apply the relations and functions and be able to determine their properties.
CO4	Analyze and verify whether an algorithm works well and perform analysis in terms of memory and time.
CO5	evaluate model problems with the concepts and techniques of discrete mathematics.

Elective Generic Lab –2: Linux Lab (U20CS2AP)

Co. No.	Course Outcome
CO1	Students will be able to understand the basic commands of linux operating system and can write shell scripts
CO2	Apply various types of servers

CO3	Analyse and explain the requirements for linux program
CO4	Evaluate shell programming
CO5	Students will be able to create files and directories and operate them

Department of Computer Science (PG)

First Semester

CORE-1: ADVANCED ANDROID PROGRAMMING (P20CS101)

Co. No.	Course Outcome
CO1	Familiarized with Android Architecture
CO2	Apply User Interface and develop activity for Android App
CO3	Analyze and implement Database Application and Content
CO4	Evaluate android apps
CO5	Creative android app development

CORE – 2: DIGITAL IMAGE PROCESSING (DIP) (P20CS102)

Co. No.	Course Outcome
CO1	Able to understand basic concepts of image processing
CO2	Apply the trends of Image processing and Analyze general terminology of digital image processing.
CO3	Analyze how to use built-in image processing functions in MATLAB
CO4	Evaluate image processing algorithms in practical applications
CO5	Create new real time applications using Matlab

CORE-3: RESEARCH METHODOLOGY (P20CS103)

Co. No.	Course Outcome
CO1	Learning basic ideas on Research Methodology
CO2	Understand how to write thesis
CO3	Apply the methods & models used in research Methodology
CO4	Gathering & Analysing Concept in Research Methodology
CO5	Evaluate research methodology software

CORE LAB – 1: ADVANCED ANDROID PROGRAMMING LAB (P20CS1P1)

Co. No.	Course Outcome
CO1	Remember and Understand android features
CO2	Apply anatomy of an Android app
CO3	Analyze the android geo location based services
CO4	Illustrate - android wifi features & advanced development
CO5	Demonstrate database link

CORE LAB – 2: DIGITAL IMAGE PROCESSING (DIP) LAB (P20CS1P2)

Co. No.	Course Outcome
CO1	Able to understand basic concepts of image processing
CO2	Apply the trends of Image processing and Analyze general terminology of digital image processing.
CO3	Analyze how to use built-in image processing functions inMATLAB
CO4	Evaluate image processing algorithms in practical applications
CO5	Create new real time application in Matlab

EEC – 1 A – HADOOP (P20CS1EEA)

Co. No.	Course Outcome
CO1	Learning basic ideas on big data and Hadoop
CO2	Gain Knowledge about Hadoop applications & data storage
CO3	Apply data in Hadoop, MapReduce Programming
CO4	Analyze the features of Hadoop
CO5	Evaluate the application of Hadoop

EEC – B ENTERPRISE RESOURCE PLANNING (P20CS1EEB)

Co. No.	Course Outcome
CO1	Understand software project planning and management.
CO2	Apply Measure and enhance Software Quality
CO3	Categorize risk and analyze resources.
CO4	Evaluate cost and contract management.
CO5	Create Select appropriate project approach for problem at hand.

AEC - CYBER SECURITY (P20AE101)

Co. No.	Course Outcome
CO1	Understand key terms and concepts in cyber law, intellectual property and cyber crimes, trademarks and domain theft.
CO2	Determine computer technologies, digital evidence collection, and evidentiary reporting in forensic acquisition
CO3	Analyze Secure both clean and corrupted systems, protecting personal data, securing simple computer networks, and safe Internet usage.
CO4	Evaluate the security measure
CO5	Create approaches for incident analysis and response.

Semester-II
TEACHING SKILLS - TEACHING AND LEARNING PROCESS AND
CORE TEACHING SKILLS (P20TS201)

Co. No.	Expected Course Outcome Upon completion of this course, the students will be able to
1.	Remember the nature of learner in the present study context.
2.	Understand the needed shifts in teaching-learning process.
3.	Articulate subject related broad objectives in terms of specific relations objectives
4.	Analyse the concept of teaching and its relationship with learning process in the classroom
5.	Demonstrate core teaching skills at competence level

CORE – 4: CRYPTOGRAPHY AND NETWORK SECURITY (P20CS204)

Co. No.	Course Outcome
CO1	Understand the fundamental principles of cryptography, network security concepts and application
CO2	Apply strong understanding of different cryptographic protocols and cipher techniques
CO3	Analyze the methods for public keys and investigate concern network security threat
CO4	Evaluate the performance and design network security protocols
CO5	Create research in network security

CORE-5: DATA ANALYTICS WITH PYTHON PROGRAMMING (P20CS205)

Co. No.	Course Outcome
CO1	Understand and demonstrate the usage of built-in objects in Python
CO2	Apply the significance of python program development environment and apply it to solve real world applications
CO3	Analyze skill to implement Python programming for data science
CO4	Evaluate numerical programming, data handling and visualization through NumPy, Pandas and Matplotlib modules.
CO5	Hands-on Python experience for professional advancements

CORE ELECTIVE – 1A. DISTRIBUTED OPERATING SYSTEM (P20CS2EA)

Co. No.	Course Outcome
CO1	Define the distributed operating system, architecture, goal of DOS and its designing issues.
CO2	Apply the technique of inter-process communication
CO3	Analyze the need of local clock instead of global clock and the different mutual exclusion and deadlock algorithms.
CO4	Evaluate the distributed file system and shared memory architecture
CO5	Develop the idea about the designing policy of different distributed operating system

CORE ELECTIVE -1 B. COMPILER DESIGN (P20CS2EB)

Co. No.	Course Outcome
CO1	identify the basics principles of compiler design
CO2	apply the various parsing techniques and different levels of translation
CO3	analyze the various parsing techniques.
CO4	evaluate intermediate code generation and run-time environment.
CO5	implement front-end of the compiler and code generator.

CORE ELECTIVE -1 C. ADVANCEDDBMS (P20CS2EC)

Co. No.	Course Outcome
CO1	Understood the basic principles of database management systems
CO2	Apply knowledge over various database models, schemes and SQL statements.
CO3	Analyze knowledge over various oracle features like Joins, Cursors, Triggers, etc.
CO4	Can evaluate the database
CO5	Create database for realtime application

CORE LAB – 3 : CRYPTOGRAPHY AND NETWORK SECURITY LAB (P20CS2P3)

Co. No.	Course Outcome
CO1	Understand and analyze the network techniques
CO2	Apply various cipher based algorithms
CO3	Analyze and check the cryptographic algorithms
CO4	Evaluate error correction codes
CO5	Develop and evaluate signature techniques

CORE LAB – 4 : DATA SCIENCE ANALYTICS WITH PYTHON PROGRAMMING LAB (P20CS2P4)

Co. No.	Course Outcome
CO1	understand basic program using list and dictionary.
CO2	apply exception handling.
CO3	analyze inheritance in object oriented programming.
CO4	evaluate pattern matching using regular expression
CO5	develop web applications and database program.

CORE - 6 : COMPUTER SCIENCE FOR COMPETITIVE EXAMS (P20CS206)

Co. No.	Course Outcome
CO1	remember the desired changes in student's attitude
CO2	understand the acquisition of knowledge
CO3	apply the learning skills of the students
CO4	analyze social and efficient member of society
CO5	evaluate the knowledge of students

EEC -2 A. PROFESSIONAL ETHICS (P20CS2EEA)

Co. No.	Course Outcome
CO1	understand the ethical issues related to profession
CO2	apply the responsibilities and rights in the society
CO3	analyze ethics in society
CO4	evaluate the professional ethics
CO5	develop self discipline and self confidence

EEC- 2B. AUTOCAD (P20CS2EEB)

Co. No.	Course Outcome
CO1	understand Auto Cad Commands to Construct Engineering Curves.
CO2	apply the Projections of Lines, Planes and Solids with different Positions.
CO3	analyze different positions of Lines, Planes and Solids in Auto Cad Software.
CO4	evaluate the Objects in the Conversion Process of Isometric Projections to Orthographic projections and Vice-Versa.
CO5	Produce and interpret 2D & 3D drawings

AEC – 2 LIFE SKILLS (P20LS201)

Co. No.	Course Outcome
CO1	understand Self Competency and Confidence
CO2	apply Intellectual & Emotional Competency
CO3	analyze an edge through Professional Competency
CO4	evaluate high sense of Social Competency
CO5	create integral Human Being

Department of Costume Design and Fashion Technology**First Semester****Core-1: Fashion Designing Concepts (U20CF101)**

CO No.	Course Outcome
CO1	To familiarize with the fashion and fashion industry related terminologies
CO2	To understand and apply elements and principles of design
CO3	To analyse various colouring schemes and Harmonies
CO4	To evaluate the suitability of design for the different types of human figures.
CO5	Create /Design their own garment based on principles of design.

Core Lab -1: Fashion Illustration (U20CF1P1)

CO No.	Course Outcome
CO1	To understand the basic skill of illustration.
CO2	To evaluate the elements of design in various apparels

CO3	To introduce principles of design
CO4	To formulate new combination of design elements.
CO5	To Create garment design based on the recent trend.

Elective Generic – 1: Fundamentals of Apparel Designing (U20CF1A1)

CO No.	Course Outcome
CO1	To learn the skill of operating sewing machines effectively for designing apparels
CO2	To apply the skill of handling different materials
CO3	To design and construct the various the components of apparels
CO4	To evaluate the suitability of fabric for garments.
CO5	To create components of apparel.

Elective Generic – Lab -1: Fundamentals of Apparel Construction (U20CF1AP)

CO No.	Course Outcome
CO1	To learn the skill of operating sewing machines effectively for designing apparels
CO2	To apply the skill of handling different materials
CO3	To design and construct the various the components of apparels
CO4	To evaluate the suitability of fabric for garments.
CO5	To create components of apparel.

Second Semester

Core – 2: Pattern Making and Grading (U20CF202)

CO No.	Course Outcome
CO1	Understanding the pattern making methods.
CO2	Remembering the measurement taking methods and commercial pattern.
CO3	Apply the rules in pattern layout and analyze the various layout methods.
CO4	Evaluate and check the good fit of a garment.
CO5	Understanding the grading and create grading for basic bodice.

Core Lab – 2: Construction of Children’s Wear (U20CF2P2)

CO.No.	Course Outcome
CO1	Understand the measurements needed for construction of children’s wear.
CO2	Remember the features and apply it on the garments.
CO3	Create various designs for children’s wear.
CO4	Analyze the fabric suitable for kids’ garments.

Elective Generic -2: Fibre to Fabric (U20CF2A2)

CO No.	Course Outcome
CO1	To familiarize with the basic terminologies in textiles.
CO2	To identify the various types of fibres and fabrics
CO3	To understand the various process involved in the production fibres. Yarn and fabric.
CO4	To evaluate various types of fibres and fabrics based on their properties.
CO5	To assess the types of fibers and fabrics.

Elective Generic Lab-2: Fibre and Fabric Analysis (U20CF2APP

CO No.	Course Outcome
CO1	To understand the methods and procedure for identification of fibres.
CO2	To apply systematic procedures to test the various properties of fibres and yarn.
CO3	To evaluate the quality of textile material.
CO4	To analyse the structure of the fabric.

**Department of Electronics
First Semester****First Semester****Core 1: SEMICONDUCTOR DEVICES (U20EL101)**

Co No.	Course Outcome
1	Identify the Passive components
2	Understand the operations of Diodes & Special diodes
3	Examines the principles and operations of transistors
4	Apply the fundamental principle of Semiconductor physics to study the parameters of semiconductor devices.
5	Apply the fundamental principle of BJT, UJT for amplification / Oscillating application.

Core Lab 1: Semiconductor Devices Lab (U20EL1P1)

CO No.	Course Outcome
1	Identify the Electronics components
2	Examine the current & voltage characteristics of semiconductor devices.
3	Calculate various device parameters values from their IV characteristics.
4	Extract important information from the graphical plots of device characteristics
5	Interpret the experimental data to understand the behaviour of the device.

Elective Generic 1:C Programming (U20EL1A1)

CO No.	Course Outcome
1	Understand the concept of Data types
2	Understand the concept of arrays, pointers and structures
3	Use concept of modular programming by writing functions and using them to form a complete program
4	Implement conditional branching, iteration and recursion
5	Develop algorithms for arithmetic and logical problems

Elective Generic Lab 1:PROGRAMMING IN C Lab(U20EL1AP)

CO No	Course Outcome
1	Read, understand and trace the execution of programs written in C language.
2	Implement Programs with pointers and arrays, perform pointer arithmetic and use the pre-processor.
3	Write programs that perform operations using derived data types
4	Develop confidence for self-education and ability for life-long learning needed for Computer language.

Semester-II

Core- 2:Digital Electronics and its Applications(U20EL202)

CO No	Course Outcome
1	Understand the concept of Number systems and their conversion
2	Acquire knowledge on different memory storage types
3	Understand the concept of Boolean algebra and realization of various logic circuits
4	Design and Implement combinational logic circuits
5	Analyze and design sequential logic circuits

Core Lab 2: Digital Electronics Lab (U20EL2P2)

CO No	Course Outcome
1	Examine various logic gates ICs
2	Design and implement various combinational circuits using Logic gates
3	Analyze and prepare the report on the experiments carried out
4	Prove the output of the Digital experiments
5	Design application oriented circuits such as counters, registers etc.

Elective Generic 2: Python Programming (U20EL2A2)

Co No	Course Outcome
CO1	Understand the basic concept of the python programming
CO2	Understand the concepts of the file I/O using python programming
CO3	Develop a skill to implement Python programming
CO4	Create and execute the Python programs
CO5	Develop a skill to perform string operations and tuples in python programming language.

Elective Generic Lab -2: Python Programming Lab (U20EL2A2)

CO No.	Course Outcome
CO1	Acquire practical knowledge of working with python
CO2	Write, Test and Debug Python Programs
CO3	Implement Conditionals and Loops for Python Programs
CO4	Use functions and represent Compound data using Lists, Tuples and Dictionaries

Department of Information Technology (UG) CORE- 1: PROGRAMMING IN C (U20IT101)

CO No.	Course Outcome
CO1	Understand the fundamentals of Constants, Variables and Data Types, Decision making and Branching.
CO2	Apply the concept of Operators and Expressions, Arrays, Structure and Union.
CO3	Analyze the concept of Input and Output Operations, different types of arrays, and pointers.
CO4	Evaluation of Expressions, Precedence of Arithmetic Operators, Arithmetic Operations on characters.
CO5	Create the new programs using the concept of User-defined functions, Pointers and Files

CORE LAB -1: PROGRAMMING IN C LAB (U20IT1P1)

CO No.	Course Outcome
CO1	Understand the basic concept of C Programming
CO2	Practice the use of conditional and looping statements
CO3	Implement arrays, strings and pointers
CO4	Implement recursion method and structure
CO5	Gain skills to handle strings and files

ELECTIVE GENERIC - 1: FUNDAMENTALS OF OFFICE AUTOMATION TOOLS AND HTML (U20IT1A1)

CO No.	Course Outcome
CO1	Learn the basics of MS-Word, Excel, Power Point Access and HTML.
CO2	Understand about editing the document, working in sheets, Tags in HTML.
CO3	Apply the concepts of Formatting the Text, Mail Merge, formulas and functions, Graphics, Charts and Frames
CO4	Analyse and evaluate the Mathematical Calculations
CO5	Create the custom style of document, animations, webpages.

ELECTIVE GENERIC LAB -1: OFFICE AUTOMATION TOOLS AND HTML LAB (U20IT1AP)

CO No.	Course Outcome
CO1	Learn and understand the basic concept of word, excel, power point, access and HTML
CO2	Apply the concepts of Formatting the Text, Mail Merge, formulas and functions, Graphics, Charts and Frames
CO3	Apply formulas, functions in excel.
CO4	Analyse the Mathematical Calculations
CO5	Create a database, animations, webpages.

Second Semester

CORE - 2: PROGRAMMING WITH C++(U20IT202)

CO No.	Course Outcome
CO1	Learn and understand the basic concepts of Basic Concepts of Object-Oriented Programming, Function Prototyping, Constructors, and Pointers
CO2	Apply the concepts of structure, member functions, operator overloading, files and Exception handling.
CO3	Analyze the concept of basic keywords, functions, structures and Overloading, Type Conversion, files, I/O Operations and error handling.
CO4	Evaluate the concept of controls structures, Memory Allocation for Objects, arrays, Virtual Functions.
CO5	Build programs using inheritance, Pointers, Virtual function and Polymorphism Templates, file management and exception handling.

CORE LAB - 2: PROGRAMMING WITH C++ LAB (U20IT2P2)

CO No.	Course Outcome
CO1	Learn and understand the concepts of oops for building object-based applications.
CO2	Practice the use of conditional and looping statements.
CO3	Analyse arrays, strings, pointers, Overloading Binary Operators, reading and writing data using files.

CO4	Implement function overloading, operator overloading and friend function.
CO5	Create a program for virtual function, try block, read and write file.

ELECTIVE GENERIC - 2: DIGITAL DESIGN (U20IT2A2)

CO No.	Course Outcome
CO1	Learn the concepts of number system, logical gates, Circuits, Flip flops and registers.
CO2	Understand the digital logics, various combinational logical circuit, Multiplexers and registers.
CO3	Apply the concepts of number system, code, Karnaugh Map, 2's Complement, : Binary Addition and Binary Subtraction , Serial in serial out, serial in parallel out, parallel in serial out and parallel in parallel out
CO4	Analyze the types of logical gates ,Karnaugh Simplifications, Sign-Magnitude Numbers
CO5	Evaluate Excess-3 Code, Gray Code and Flipflops.

ELECTIVE GENERIC LAB -2: IMAGE EDITING AND DESIGNING LAB (U20IT2AP)

CO No.	Course Outcome
CO1	Learn and understand Adobe Photoshop's digital imaging tools and techniques for image editing and transformation, tonal and color correction, and special effects.
CO2	Utilize digital imaging tools to make selections work with layers, manipulate brushes and paint, utilize masks and channels, and incorporate vector drawing techniques.
CO3	Analyze fundamental layout and design principles to original digital imaging work.
CO4	Evaluate geometric methods in CorelDraw
CO5	Design logo, Handbook and page frame

Department of Information Technology (PG)

CORE-1: ADVANCED JAVA PROGRAMMING (P20IT101)

CO No.	Course Outcomes
C01	Learning the fundamentals of Java and develop Applet programs
C02	Develop Swing-based GUI and Use Exception Handling in Programs
C03	Build database applications
C04	Develop distributed applications using RMI
C05	Develop server-side programs in the form of servlets

CORE-2: DIGITAL IMAGE PROCESSING (P20IT102)

CO No.	Course Outcome
CO1	Memorizing the fundamentals of Image processing and Matlab Tools.
CO2	Implementing the Filtering techniques.
CO3	Experimenting color conversion and transformation.
CO4	Building programs using compression and morphological operations.
CO5	Composing different segmentation techniques on the Image

CORE - 3: ADVANCES IN OPERATING SYSTEM (P20IT103)

CO No.	Course Outcome
CO1	Understand the basic concepts of Multiprocessor Operating Systems, Process Scheduling and Memory Management
CO2	Understand basic concepts of Distributed scheduling
CO3	Learn the concepts of Distributed operating system
CO4	Learn the concepts of Mobile Operating Systems.
CO5	Demonstrate the OS Issues

CORE LAB 1: ADVANCED JAVA PROGRAMMING LAB (P20IT1P1)

CO No.	Course Outcome
CO1	Learn the concepts of Java Applet programs
CO2	Learn the connectivity of java programs with database.
CO3	Implement Java Bean for various program applications
CO4	Learn the concept of Java Servlet.
CO5	Able to create cookies and develop Remote Server Interface

CORE LAB 2: DIGITAL IMAGE PROCESSING LAB (P20IT1P2)

CO No.	Course Outcome
CO1	Perform image related operations
CO2	Demonstrate different logical operation on images
CO3	Apply proper filter for different set of noisy images.
CO4	Demonstrate the concept of DWT of images
CO5	Experimenting different Image Segmentation Techniques

Employability Enhancement - 1: DATA MINING AND DATA WAREHOUSING (P20IT1EEA)

CO No.	Course Outcome
CO1	Know basic knowledge on Data mining
CO2	Illustrate the Classification methods
CO3	Understand Cluster Analysis

CO4	Understand and Implement Web Mining
CO5	Lear the concept of Data warehousing and OLAP

Employability Enhancement - 2: MULTIMEDIA TECHNOLOGY (P20IT1EEB)

CO No.	Course Outcome
CO1	Know basic knowledge on Multimedia
CO2	Illustrate the Data pre-processing Steps
CO3	Learn Data Warehousing and Data mining Techniques
CO4	Understand and Implement Various clustering techniques
CO5	Create a research idea in data mining concept

SECOND SEMESTER

CORE - 4: WEB PROGRAMMING USING PHP (P20IT204)

CO No.	Course Outcome
CO1	Understand the basic concepts of internet and html.
CO2	Describe the fundamentals Server side web scripts and Syntax and variables.
CO3	Expose the concepts of Control functions, Strings, Array and array Functions
CO4	Expose the concepts of Filesystem , System Functions , Sessions, Cookies, and HTTP
CO5	Demonstrate the concepts of PHP/MySQL Functions and Displaying Queries in Tables

CORE - 5: .NET PROGRAMMING(P20IT205)

CO No.	Course Outcome
CO1	Understand about NET framework, .NET features, common language runtime, .NET framework libraries and the Visual Studio Integrated Development Environment and Programming in C#.
CO2	Write a console application using classes and objects, constructor, overloading, inheritance, polymorphism, interface, array, exceptions, delegates and events in C# and VB Scirpts. Create window applications using window controls, Menus and graphics in VB and C#.
CO3	Understand the ASP.NET features, ASP.NET page directives and, To build the application using Web server Controls, Validation Server Controls, Rich Web Controls, Custom Controls, Collections and Lists.
CO4	Understand ADO.NET and to develop the application usingADO.NET with VB.NET and ASP.NET, and also LINQ queries.
CO5	Building ASP.NET 3.5 Enterprise Applications using Ajaxapplications and ASP.NET web services.

CORE LAB - 3: WEB PROGRAMMING LAB (P20IT2P3)

CO No.	Course Outcome
CO1	Implement various operations and functions using PHP
CO2	Perform input/output operations.
CO3	Learn the concepts of processing HTML
CO4	Implement MYSQL connectivity and perform Databasemanipulations
CO5	Perform maintenance of session

CORE LAB -4 : .NET PROGRAMMING LAB (P20IT2P4)

CO No.	Course Outcome
CO1	Creation of to develop a control application
CO2	Implement database program for creation of package.
CO3	Explore the concept of co-related sub queries
CO4	Implement program for user defined exception and built-in exception
CO5	Learn the concept of creation of procedure

CORE ELECTIVE - 1: INTERNET SECURITY (P20IT2E1A)

CO No.	Course Outcome
CO1	To know the fundamentals of Internet and Security.
CO2	In-depth study of various network attacks techniques and methods to defend against them
CO3	Analyze the various cryptography algorithms.
CO4	Understand the various network security mechanisms
CO5	To learn the attacks by performing them and also play with a number of security tools to understand how they work

CORE ELECTIVE - 1: CLOUD COMPUTING (P20IT2E1B)

CO No.	Course Outcome
CO1	Learn basic ideas of Cloud Computing
CO2	Differentiate various types and examples in Cloud Computing
CO3	Implement of Real time Usage
CO4	Gather & Analysis Concept in Virtualization
CO5	Verify the Standard & Security in usage

CORE ELECTIVE- I: INTERNET OF THINGS (P20IT2E1C)

CO No.	Course Outcome
CO1	Understand the basic concept of Internet of Things
CO2	Understand basic concepts of Iot Architecture
CO3	Learn the concepts of IoT Protocols
CO4	Learn the working of Raspberry Pi &Arduino
CO5	Demonstrate the different types case studies

DEPARTMENT OF STATISTICS
FIRST SEMESTER
CORE -1: DESCRIPTIVE STATISTICS (U20ST101)

CONo.	Course Outcome
CO1	Define and use the basic terminology of statistics.
CO2	Classify and analyse the statistical data graphically, diagrammatically using frequency distributions.
CO3	Explain and calculate the statistical concepts of central tendency, dispersion, skewness and kurtosis.
CO4	Evaluate of correlation and regression analysis of bivariate data.
CO5	Knowledge of other types of data reflecting quality characteristics including concepts of independence & association between two attributes.

Core – 2: Probability Theory (U20ST102)

CONo.	Course Outcome
CO1	Understand the basic knowledge on fundamental probability concepts, probability of an event, additive rules and Boole's inequality.
CO2	Learn the concept of Conditional Probability, Multiplication theorem and Bayes' theorem.
CO3	Knowledge related to concept of discrete and continuous random variables and their probability distributions.
CO4	Derive the marginal and conditional distributions of bivariate random variables and Cauchy-Schwartz Inequality.
CO5	Obtain the Moment Generating Function, Cumulants Functions, Characteristics Functions and Chebychev's Inequality.

Elective Generic – I: Ancillary Mathematics (U20ST1A1)

CO No.	Course Outcome
CO1	Learn the Mathematical Series like Binomial, exponential.
CO2	Investigate problems such as finding roots and relation between roots and coefficients.
CO3	Learn the difference operators.
CO4	Gain the knowledge about trigonometrical functions
CO5	Calculate derivatives and curvature.

Second Semester

Core – 3: Distributions Theory (U20ST203)

CO No.	Course Outcome
CO1	Knowledge related to concept of discrete random variables such as Bernoulli, Binomial and Poisson distributions.
CO2	Apply the important discrete distributions such as Negative Binomial, Geometric distributions.
CO3	Learn the concept of Normal distribution.
CO4	Explain of important continuous distributions such as Rectangular or Uniform, Exponential and Cauchy distributions.

CO5	Understand the concept of Sampling distributions such as t, F, Chi – Square distributions.
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Core Lab – 1: Statistics Practical – I (U20ST2P1)

CO No.	Course Outcome
CO1	Analyze statistical data graphically using frequency distributions and cumulative frequency distributions.
CO2	Analyze statistical data using measures of central tendency, dispersion and location.
CO3	Use the basic probability rules, including additive and multiplicative laws, using the terms, independent and mutually exclusive events.
CO4	Derive the marginal and conditional distributions of bivariate random variables.
CO5	Calculate the various statistical distributions such as discrete and continuous distributions.

Elective Generic – 2: Real Analysis (U20ST2A2)

CO No.	Course Outcome
CO1	Have the knowledge of Sets and basic properties of the field of real numbers.
CO2	Determine the subsets of a metric space are open, closed, countable and uncountable.
CO3	Realize the importance of bounded, convergent, Cauchy and monotonic sequences of real numbers and find their limit superior and limit inferior.
CO4	Apply various tests to determine convergence and absolute convergence of a series of real numbers.
CO5	Demonstrate the understanding of limits and how they are used in sequences, series, differentiation and integration.

Department of Commerce (UG)

First Semester

Core – 1: Financial Accounting – I (U20CO101)

Co. No.	Course Outcome
CO1	describe the fundamental concepts of financial accounting.
CO2	classify the methods of depreciation and single entry system of accounting.
CO3	prepare the financial statements of final accounts, bank reconciliation statement, depreciation, bill of exchange and single entry system.
CO4	compare and contrast book keeping and accounting, cash book and passbook, double entry system and single entry system, statement of affairs and balance sheet.
CO5	evaluate the financial position of the business.

Core -2: Business Organization and Environment (U20CO102)

Co. No	Course Outcome
CO1	define the basic terms and concepts of business environment.
CO2	discuss the consumer protection mechanism
CO3	determine the factors affecting business environment.
CO4	examine the principles of organization.
CO5	evaluate the types of business organizations.

Elective Generic – 1: Computer Applications in Business (U20CO1A1)

Co.No	Course Outcome
CO1	describe the overview of MS-Office Applications.
CO2	examine the mathematical functions in MS-Excel.
CO3	analyse the features of MS-Word, MS-Excel and MS-PowerPoint.
CO4	evaluate the scores by quiz conduction using google forms.
CO5	create tables, charts, powerpoint slides, google forms, google slides and e-certificates.

Elective Generic Lab – 1: Computer Applications in Business (U20CO1AP)

Co.No.	Course Outcome
CO1	define the basic terms and concepts of MS-Office features.
CO2	classify the mathematical functions in MS-Excel.
CO3	examine the different types of charts in MS-Excel.
CO4	evaluate the usage of google forms.
CO5	create google forms, e-Certificates and presentation slides.

Second Semester**Core – 3: Financial Accounting (U20CO203)**

Co.No	Course Outcome
CO1	define the fundamental concepts of consignment, non-profit concern, self-balancing ledger and fire insurance claim.
CO2	compare and contrast consignment and sales, recurring and non-recurring expenses, abnormal and normal loss, capital and revenue expenditure, capital and revenue receipts.
CO3	prepare the accounts relating to consignment, non-profit concern, self-balancing ledger and fire insurance claim.
CO4	analyse the loss of stock in fire insurance claims.
CO5	evaluate the normal loss, abnormal loss, average due date, interest and fire-insurance claims.

Core-4: Economics for Managerial Decisions (U20CO204)

Co. No	Course Outcome
CO1	define the fundamental concepts of managerial economics.
CO2	classify the costs, theories of profit, methods of pricing.
CO3	determine the price and output under perfect, monopoly, monopolistic and oligopoly competition.
CO4	examine the concepts of short run and long run, cost function, consumer surplus, economies of scale, profit maximisation and

	break even analysis.
CO5	summarize the New Pricing policy under Perfect Competition Monopoly. determine the cost, theories of profit and

Core Elective – 1: Retail Management (U20CO2E1A)

Co.No	Course Outcome
CO1	describe the basic and fundamental concepts of retailing, retail pricing, branding in retailing, information technology in retailing and online retailing.
CO2	discuss the retail pricing strategies.
CO3	analyse the application of information technology in retailing.
CO4	summarize the advantages and disadvantages of information technology in retailing and online retailing.
CO5	create the concepts of branding, brand loyalty and brand positioning.

Core Elective – 1: International Business and Foreign Trade (U20CO2E1B)

Co.No	Course Outcome
CO1	state the nature and scope of international trade.
CO2	discuss the export promotion measures adopted in international trade.
CO3	examine the regulatory and legal framework of international business.
CO4	analyse the trends in international business environment.
CO5	evaluate the functions of WTO, World Bank and IMF.

Department of Commerce (PG)

First Semester

Core – 1: Advanced Financial Accounting (P20CO101)

S.No.	Course Outcome
CO1	describe the fundamental concepts of advanced financial accounts.
CO2	explain the recording of transactions in farm accounting, branch and departmental accounts.
CO3	prepare the financial statements of partnership accounts, farm accounting, hire purchase and instalment accounts, branch and departmental accounts, and investment accounts.
CO4	calculate cum-interest and ex-interest quotations in Investment accounts.
CO5	evaluate the accounting treatment of hire purchase and instalment purchase system.

Core – 2: Financial Markets and Services (P20CO102)

Co.No	Course Outcome
CO1	identify the overview of Indian financial system.
CO2	discuss the pros and cons of financial services in India.
CO3	explain the functions of primary market and secondary market.
CO4	analyse the features of different financial market instruments.
CO5	compare primary market and secondary market and money market and capital market and financial and operating lease.

Core – 3: Quantitative Techniques for Managerial Decisions (P20CO103)

Co.No	Course Outcome
CO1	identify the solutions for linear programming problems.
CO2	discover the solutions for assignment problems.
CO3	solve the transportation problems for cost effectiveness.

CO4	compare and contrast the methods of testing of hypotheses.
CO5	assess the critical path using PERT/ CPM in project management.

Core Lab – 1: Accounting Package – TALLY (P20CO1P1)

Co.No	Course Outcome
CO1	describe the features of TALLY ERP 9.0.
CO2	explain the concept and methodology of GST calculation.
CO3	prepare the financial statements of Final accounts, Point of Sales (POS) and Bank Reconciliation Statement (BRS), Goods and Services Tax (GST), Tax Deducted at Source (TDS) and Tax Collected at Source (TCS), Service Tax and Excise dealer using TALLY ERP 9.0.
CO4	analyse the profit or loss using TALLY ERP 9.0.
CO5	evaluate the financial statements using TALLY ERP 9.0.

Employability Enhancement – 1: Services Marketing (P20CO1EA)

Co.No	Course Outcome
CO1	explain the basic concepts of service marketing.
CO2	illustrate the recent trends and technologies in various applications of services marketing.
CO3	explain the promotion and pricing strategy in service industries.
CO4	analyse the practices of service marketing mix in service industries.
CO5	assess the factors influencing buyer behaviour.

Employability Enhancement – 1: Advertising and Salesmanship (P20CO1EB)

Co.No	Course Outcome
CO1	describe the fundamental concepts of advertising.
CO2	explain the types, advantages and disadvantages of advertising media.
CO3	examine the concepts of advertisement copy, budget and agency.
CO4	analyse the functions, duties, responsibilities and qualities of a salesman.
CO5	evaluate the organisational sales forecasting, sales quota and sales territory.

Second Semester

Core – 4: Financial Management (P20CO204)

Co.No	Course Outcome
CO1	define the basic concepts of financial management.
CO2	discuss the methods of capital budgeting and dividend decisions.
CO3	determine the factors determining capital structure.
CO4	analyse the overall cost of capital.
CO5	assess the working capital and cash requirements.

Core –5: Advanced Cost Accounting (P20CO205)

Co.No	Course Outcome
CO1	describe the basic concepts in cost accounting.
CO2	illustrate the calculation of normal and abnormal loss.
CO3	compute the cost of materials, labour and overheads.
CO4	differentiate the material and labour variances.
CO5	compare and reconcile the cost and financial statements.

Core – 6: Marketing Management (P20CO206)

Co.No	Course Outcome
CO1	describe the basic concepts of marketing, marketing mix and market segmentation.
CO2	illustrate the concept of new product development.
CO3	analyse the pricing strategy with social relevance.
CO4	evaluate the channels of distribution for marketing a product.
CO5	create the new promotional tools to market a product.

Core -7: Total Quality Management (P20CO207)

Co.No	Course Outcome
CO1	describe the basic concepts and overview of Total Quality Management.
CO2	discuss the principles of Total Quality Management.
CO3	examine the quality systems implemented in production and service sectors.
CO4	analyse the modern tools and techniques of Total Quality Management.
CO5	evaluate the Process Capability.

Core – 8: Commerce for Competitive Examinations (P20CO208)

Co.No	Course Outcome
CO1	describe the concept of SWOT analysis.
CO2	identify the answers for the aptitude and general awareness questions of TNPSC, Banking and Insurance examinations.
CO3	illustrate the concepts in teaching and research aptitude questions of NET/SET-Paper I.
CO4	illustrate the concepts in commerce discipline questions of NET/SET-Paper II.
CO5	Justify the answers for the questions of analytical reasoning, non-verbal reasoning, visual ability and graphical analysis.

Department of Commerce (M.Phil.)
First Semester
Core – 1: Research Methodology (R20CO101)

Co.No	Course Outcome
CO1	Explain the basic concepts in research and various stages in research process
CO2	Describe the Significance of processing the data, drafting reports, and intellectual property rights in research
CO3	Determine the steps in identification and development of research problems
CO4	Compare and contrast the various sampling techniques, scaling methods, research tools and data collection methods
CO5	Construct hypotheses, data collection tools and scales

Core – 2: Advanced Financial Management (R20CO101)

Co.No	Course Outcome
CO1	Examine the concept of financial planning.
CO2	Acquire the knowledge on theories of capital structure and leverage.
CO3	Discuss the methods of capital budgeting and cost of capital.
CO4	Determine the theories of dividend.
CO5	Calculate the amount of working capital required.

Core Elective: Professional Competencies (R20CO1E1)

Co.No	Course Outcome
CO1	Understand the concepts in teaching aptitude.
CO2	Describe the process of communication and ICT.
CO3	Illustrate the problems and solutions in reasoning aptitude and data interpretation.
CO4	Explain the issues and challenges in people and environment.
CO5	Explain the overview of higher education system.

Core Elective – 1: Marketing Management (R20CO1E2)

Co.No	Course Outcome
CO1	Describe the basic concepts and principles of Marketing management
CO2	Identify with the Buyer behavior decisions that organizations make and have an ability to engage in marketing planning.
CO3	Examine and evaluate critically real-life product decisions and develop creative solutions, using a marketing management perspective.
CO4	Analyze the competitive situation and marketing dilemma in dealing with dynamic global business environment in terms of rapidly

	changing market trends and technological advancement
CO5	Assess the promotion decisions of marketing management in global perspective

Second Semester

Dissertation: Dissertation (R20CO2DN)

Co.No	Course Outcome
CO1	Identify the problem area in which the research is to be conducted.
CO2	Review the research articles already published.
CO3	Analyse the primary and secondary data by using the appropriate statistical tools.
CO4	Interpret the inferences based on the results of the data analysis.
CO5	Draw the suggestions and conclusions based on the findings.

Department of Business Administration

First Semester

Core-1: Principles of Management (U20BB101)

Co.No	Course Outcome
CO1	Understand the basic functions and concepts of management for accruing professional competency.
CO2	Become a technical expert in planning and decision making process by analyzing, critical thinking and evaluation.
CO3	Identify & understand the design of organizational structure and the right span of control.
CO4	Identify & implement suitable staffing and directing strategies for recruiting and Managing diversified employees.
CO5	Control and coordinate the diversified work force in a systematic approach.

Core – 2: Managerial Economics (U20BB102)

Co.No	Course Outcome
CO1	Impart knowledge on the basic concepts and principles of Economics.
CO2	To familiarize the functions of demand and supply, measurement of elasticity and demand forecasting.
CO3	Assess technically the possible ways of increasing the production level.
CO4	Analyze different market structures and make price and output decisions in the global scenario.
CO5	To know the macro-economic fundamentals that causes impact on the economy worldwide.

Elective Generic – 1: Basics Of Computer For Managers (U20BB1A1)

Co.No	Course Outcome
CO1	Understand, classify& analysis the basic concepts and components of computer for acquiring technical core competency in the field of management.
CO2	Become an expert in Ms –Word operations for the effective functioning of a business
CO3	Apply the Ms-Excel operations in the real time business.
CO4	Create a effective power point presentation by critical thinking
CO5	Access internet for their personal, Academic and business purpose in a global perspective

Elective Generic Lab -1: Basics Of Computer For Managers – Lab (U20BB1AP)

Co.No	Course Outcome
CO1	Understand basic knowledge of computer
CO2	work in Ms –Word tool for the effective functioning of a business
CO3	Apply the Ms-Excel operations in the real time business.
CO4	Create a effective power point presentation by critical thinking
CO5	Access internet for their personal, Academic and business purpose in a global perspective

Second Semester**Core – 3: Commercial Correspondence (U20BB203)**

Co.No	Course Outcome
CO1	Understand the basic requirements of written & oral communication in business
CO2	Write letters of enquiry, replies, orders and cancellation by considering the draft while writing these letters.
CO3	Write letters regarding circulars, complaints, claim and adjustments in the appropriate format. Display the techniques to use mail merge in sending circular letters.
CO4	Write sales and collection letters by applying the appropriate format and techniques.
CO5	Summarize the essentials of a good report and its types. Prepare Business report

Core – 4: Financial Accounting (U20BB204)

Co.No	Course Outcome
CO1	Acquire conceptual knowledge of basics of accounting Identify events that need to be recorded in the accounting books.
CO2	Prepare final accounts of sole trader according to Double entry system.
CO3	Identify and analyze the causes of accounting errors and rectification and the difference between cash book and pass book balances.

CO4	Prepare the accounts of Non-trading concerns and determine the useful life and value of the depreciable asset.
CO5	Use accounting information to ascertain the profit from single entry system of records.

Elective Core – 1: Office Management and secretarial practice (U20BB2E1A)

Co.No	Course Outcome
CO1	Familiarize with the activities in a modern office, its layout and its smooth functioning.
CO2	Apply professional skills and knowledge in using various tools and equipments in the working environment of an office.
CO3	Understand the affairs of a company secretary and skills required for taking up secretarial functions.
CO4	Impart knowledge on issue of shares and related documents preparation.
CO5	Equip on the procedures in issue of debentures concerned.

Elective core –1: Business Organisation (U20BB2E1B)

Co.No	Course Outcome
CO1	To remember and understand the basic concepts of business, trade and industry
CO2	To identify and establish the suitable forms of business by applying and evaluating the concepts
CO3	To validate the formation of a joint stock company
CO4	To organize a valid company meeting and maintain statutory records and requirements
CO5	To reap the benefits of co-operative society by compare and contrast with the other forms of business

Department of English (UG)

First Semester

Core - 1: Literary Forms (U20EN101)

Co.No	Course Outcomes
CO1	Know about the defining features of the kinds of literary writings such as poetry, drama, prose and fiction
CO2	Enable the students to get acquainted with the fundamental knowledge of the purpose of literary genres
CO3	Learn some parts of the continent of literature, enabling an independent study of poetry, drama, prose or fiction.
CO4	Differentiate different genres
CO5	Make the learners to write creatively using the literary forms.

Core-2: History of English Literature – I (U20EN102)

Co.No	Course Outcomes
CO1	To investigate the ideas arrived at by two other fifteenth-century readers, who perhaps understood <i>Chaucer and his contemporary</i> intentions

CO2	To understand and exploration of Dramatic Writing and its classification.
CO3	To explore the religious and political struggles works and writers.
CO4	To understand the Metaphysical writers and their works.
CO5	To get the knowledge of Pope writings and his contemporaries.

Elective Generic – I: English Grammar and Usage (U20EN1A1)

Co.No	Course Outcomes
C01	Learn basic Grammar and enrich their vocabulary
C02	Produce grammatically and idiomatically correct spoken and written discourse.
C03	Have an appreciable understanding of English grammar.
C04	Create better understanding towards the structure of the language to develop language Proficiency.
C05	Enhance the knowledge of creative writing skills.

Second Semester

Core – 3: Elizabethan Age (U20EN203)

Co.No	Course Outcomes
CO 1	Develop an initial understanding of Medieval and Renaissance Text
CO 2	Comprehend and interpret the poetic lines
CO 3	Understand the passage, enrich their vocabulary and be proficient in the four language skills
CO 4	Acquire the sense of examining the characters in the social set up
CO 5	Imbibe the artistic skill to be efficient in their creativity.

Core - 4: History of English Literature – II (U20EN204)

Co.No	Course Outcomes
CO1	To explore the beginners of novelists and their writings
CO2	To understand the revolutionary and romantic period writers and their writings
CO3	To get the practical knowledge of Alienation writings and novels
CO4	To analyse transition of poets, dramatists and novelists
CO5	To explore the stylistic writings and their writers

Elective Generic – II: Social History of England (U20EN2A2)

Co.No	Course Outcomes
CO1	Prepare Students to understand and navigate a far greater kaleidoscope of cultures and countries.
CO2	Understand the life and times of England and help students to analyse other society in a comparative context with one's own society.

CO3	Expose the Methodist movement, The Industrial, Agrarian, and The French Revolution and the American War of Independence.
CO4	Infer and interpret the importance of the education, Transport and reform bills in the Victorian age.
CO5	Describe the inter relationships of the social, economic and political background of England during the 20 th century.

Department of English (PG)
First Semester
Core – 1: Realistic Literature (P2OEN101)

Co.No	Course Outcomes
CO1	Acquire the historical details and fascism in middle Europe
CO2	Understanding the reality of life with dream world through the changing characters and settings
CO3	Analyse the common theme in Modern Literature
CO4	Explore the key point and theme of regeneration and potential for new life from modern poetry
CO5	Engage on distinctive style of eloquence and writing skill of prose

Core – 2: Literary Criticism (P20EN102)

Co.No	Course Outcomes
CO1	Know the classical ideas of unity of form and content literary pieces
CO2	Interpret the literature and attempt for expressing countless ideas in a finite form
CO3	Know the values and stylistic writing, including the clear ideas of the critic
CO4	Able to think critically
CO5	Emphasize close reading to discover how a work of literature functioned as a self-contained, self-referential aesthetic object.

Core –3: Literature in Diaspora (P20EN103)

Co.No	Course Outcomes
CO1	Acquire the sense of understanding poetic style in Diaspora context
CO2	Imbibe the knowledge of learning vocabulary, sentence structure and so on
CO3	Apply the knowledge of analyzing characters through short stories
CO4	Understand the skill of art to be broad minded in facing the world
CO5	Examine the characters by evaluating their self in creating their own for the development of the society

Core – 4: English Language Teaching (P20EN104)

Co.No	Course Outcome
CO1	To deal with various skills associated with English Language Teaching
CO2	To Expose the new communicative patterns.
CO3	To Make the students aware of the new trends in English Language Teaching.
CO4	To Enhance teaching knowledge in English practically
CO5	To Uplift and instill students' innovative teaching skill

Employability Enhancement: Soft Skills through Literature (P20EN1EEA)

Co.No	Course Outcomes
CO1	Improve right attitude by developing self, for acquiring Self-esteem Skills and Empathy Skills
CO2	Make out real life outcomes, reading and comprehending stories for improving customer relations Skills and Honesty.
CO3	Engage students acquiring positive thinking and conversational Skill from in depth pursuing of moral stories.
CO4	Ensure professional skills, students get wide exposing through prose and stories discussion.
CO5	Face real life outcomes by go through stories which leads them to develop broad visionary skills and leadership quality

Employability Enhancement: Public Speaking Skills (P20EN1EEB)

Co.No	Course Outcomes
CO 1	Understand the nuances of PublicSpeaking
CO 2	Compare various types of PublicSpeeches
CO 3	Motivate an audience with inspirationalthoughts
CO 4	Conduct a formalmeeting
CO 5	Train others in effective communication

Core – 5: Twentieth Century Literature (P20EN205)

Co.No	Course Outcome
CO1	Understand literary Modernism in prose through trends and techniques used.
CO2	Understand the cultures various countries in the modern age
CO3	Gain practical knowledge of various writing styles
CO4	Analyse political significance and cultural clashes through literary pieces
CO5	Create critical thinking..

Core – 6: Literary Theory – I (P20EN206)

Co.No	Course Outcomes
CO1	Understand the technique of interpreting the literary texts and the different aspects of literary studies known as theory.
CO2	Apprehend a firm understanding in a major methodological aspect of literary studies known as theory.
CO3	Enhance the critical thinking of students by introducing to them a bunch of literary theories and develop the close reading of a text.
CO4	Explore the World, the Text, and the Critic in post-modern aspects.
CO5	Read and understand unfamiliar articles on current theories, and analyse the evolution of literary theories by applying the psycho-analytical aspects.

Core – 7: Research Methodology (P20EN207)

Co.No	Course Outcomes
CO1	Introduce the students to the Research Methodology and explain the Plagiarism and how to avoid them.
CO2	Initiate Research ideas and present the topic in a simplified and lucid manner and get the theoretical idea of knowledge
CO3	Make original contribution to the body of knowledge in their discipline and get the knowledge of organizing thought
CO4	Help the students an instance of supplying the documents for future purposes
CO5	Evaluate the uses of primary and secondary sources

Core – 8: English for Competitive Examinations (P20EN208)

Co.No	Course Outcomes
CO1	Engage students in the process of looking at performance and setting both job and career goals.
CO2	Familiar with a variety of important English-language poems and play and grasp the knowledge of Teaching Aptitude, Research Aptitude, General Knowledge and General Awareness.
CO3	Understand characters, historical and analytical perspectives and get the knowledge of language theories and education system
CO4	Explore a wide range of institutions, media, concepts and formations such as television, multiculturalism, and cultural heritage and formulate the significance of race, class, and gender for literary study.
CO5	Increase thinking ability and measure of the abilities of a person

Employability Enhancement – II: CAREER DEVELOPMENT SKILLS (P20EN2EEA)

Co.No	Course Outcomes
CO1	Gain self-confidence and acquired skills to build their network by greeting and meeting each other.
CO2	Understand the structure, correctness and usage of language to acquire oral and written language competence.
CO3	Develop strategies to work with others to achieve specific goals and help students understand the communication process, its benefits and challenges.

CO4	Enhance the confidence of the learners' specially speaking, writing, reading and listening in English.
CO5	Create an active learning environment, make learners tap their innate energies and channelized them towards their destiny.

Employability Enhancement – II: Professional English (P20EN2EEB)

Co.No	Course Outcomes
CO 1	Understand the basic objective of the course by being acquainted with specific dimensions of communication skills i.e. Reading, Writing, Listening, Thinking and Speaking.
CO 2	Apply it for practical and oral presentation purposes by being honed up in presentation skills and voice-dynamics for developing inter-personal communication skills and positive attitude leading to their professional competence.
CO 3	Analyse and apply it at their work place for writing purposes such as presentation/official drafting/administrative communication and use it for document/project/report/research paper writing.
CO 4	Evaluate the correct & error-free writing by being well-versed in rules of English grammar & cultivate relevant technical style of communication & presentation at their work place & also for academic uses.
CO 5	Create substantial base by the formation of strong professional vocabulary for its application at different platforms and through numerous modes as Comprehension, reading, writing and speaking etc.

DEPARTMENT OF PROFESSIONAL ACCOUNTING

First Semester

Core – 1: Principles and Practices of Financial Accounting (U20PA101)

Co.No	Course Outcome
CO1	To understand the basic concepts and principles of accounting.
CO2	To find the nature of the transaction and to rectify the errors in recorded transactions
CO3	To analyse the profit and non-profit organization's financial transactions for preparing final accounts
CO4	To know the process of depreciation accounting to understanding the accounting system properly.
CO5	To prepare Bills of exchange, Average Due Date and insurance claims.

Core – 2: Business Organization and Management (U20PA102)

Co.No	Course Outcome
CO1	Remember the fundamentals of business organizations and management
CO2	Understand the basic concepts of business organizations and management

CO3	Apply the various concepts of business and organisation
CO4	Identify and understand the design of organisational structure and the right span of control
CO5	Control and coordinate the diversified work forced in a systematic approach

Elective Generic -1: Computer Applications in Business (U20PA1A1)

Co.No	Course Outcome
CO1	Remember the fundamentals of computer for business communication
CO2	Understand the basics of computer applications in business
CO3	Apply the concepts of computer in personal and business transactions
CO4	Analyze the business development using computer concepts
CO5	Evaluating the concepts of computers and create own domain for the business

Elective Generic -1: Computer Applications in Business – Lab (U20PA1AP)

Co.No	Course Outcome
CO1	Remember the fundamentals of computer for business communication
CO2	Understand the basics of computer applications in business
CO3	Apply the concepts of computer in personal and business transactions
CO4	Analyze the business development using computer concepts
CO5	Evaluating the concepts of computers and create own domain for the business

Second Semester

Core-3: Advanced Financial Accounting-I (U20PA203)

Co.No	Course Outcome
CO1	Remember the fundamentals of Advanced financial Accounting
CO2	Understand the basic concept of Advanced financial Accounting
CO3	Classify the various accounting statements to solve business problems
CO4	Analyse the various concepts of Advanced financial Accounting
CO5	Construct the reports based on the accounting data

Core – 4: Business Mathematics and Statistics (U20PA204)

Co.No	Course Outcome
CO1	Remember the concepts of business statistics and mathematics
CO2	Understand the business statistics and mathematics principles for the better self and business upliftment
CO3	Apply the axiom of business statistics and mathematics to find out a solution
CO4	Compute the mathematical expressions by distinguishing various concepts
CO5	Construct the expected results based on the evaluation of statistical and mathematical data

Elective Core-1: Managerial Economics (U20PA2E1A)

Co.No	Course Outcome
CO1	Remember the fundamental concepts of Managerial economics
CO2	Understand the basic concept of managerial economics in business
CO3	Apply the concept of managerial economics for business decisions.
CO4	Analyze the managerial economic concepts for the development of business
CO5	Evaluate the causes of inflation and deflation and its effects on business.

Elective Core-1: Business Environment (U20PA2E1B)

Co.No	Course Outcome
CO1	Remember the basic concepts of business environment
CO2	Understand the role of environment for the business development
CO3	Apply the different environmental factors for the development of business
CO4	Analyze the various environmental and take the right decision for the growth of business
CO5	Evaluate the environment of business and create business ethics.

**Common Course for all UG
First Semester****Ability Enhancement: Environmental Studies**

CO No.	Course Outcome
CO1	Define the structure and functions of ecosystem.
CO2	Explain the benefits of biodiversity conservation.
CO3	Summarise the sources, effects and control measures of various types of Pollutants.
CO4	Perceive the environment legislations in India for sustainable development.

Additional Core - 1: Professional English for Physical Sciences – I (U20PS1PE)

CONo.	Course Outcome
CO1	Recognize their own ability to improve their own competence in using the language.
CO2	Use language for speaking with confidence in an intelligible and acceptable manner.
CO3	Understand the importance of reading for life and Read independently unfamiliar texts with comprehension.
CO4	Understand the importance of writing in academic life.
CO5	Write simple sentences without committing error of spelling or grammar.

ADDITIONAL CORE – I: PROFESSIONAL ENGLISH FOR COMMERCE AND MANAGEMENT - I (U20CM1PE)

Co.No	Course Outcome
CO1	Recognize their own ability to improve their own competence in using the language
CO2	Use language for speaking with confidence in an intelligible and acceptable manner
CO3	Understand the importance of reading for life
CO4	Read independently unfamiliar texts with comprehension
CO5	Understand the importance of writing in academic life
CO6	Write simple sentences without committing error of spelling or grammar

SECOND SEMESTER**ADDITIONAL CORE – 2: PROFESSIONAL ENGLISH FOR PHYSICAL SCIENCE – II (U20PS2PE)****ADDITIONAL CORE – I: PROFESSIONAL ENGLISH FOR COMMERCE AND MANAGEMENT - I (U20CM1PE)**

Co.No	Course Outcome
CO1	Attend interviews with boldness and confidence.
CO2	Apply to the Research & Development organizations/sections in companies and offices with winning proposals.
CO3	Adapt easily into the workplace context, having become communicatively competent.

FOUNDATION COURSE: YOGA AND VALUE EDUCATION

CO No.	Course Outcome
CO1	Understand the scientific basis of yoga, importance of practice of yoga and holistic living.
CO2	Get motivated to develop moral values and empathic feeling.
CO3	Identify the tools for a positive self development.
CO4	Gain a realistic understanding about various social evils and measures to overcome it.

**COMMON PAPER FOR ALL PG
FIRST SEMESTER
ABILITY ENHANCEMENT: CYBER SECURITY (P20AE101)**

CO No.	Course Outcome
CO1	Understand key terms and concepts in cyber law, intellectual property and cyber crimes, trademarks and domain theft.
CO2	Determine computer technologies, digital evidence collection, and evidentiary reporting in forensic acquisition.
CO3	Evaluate Secure both clean and corrupted systems, protecting personal data, securing simple computer networks, and safe internet usage.
CO4	Incorporate approaches for incident analysis and response.

COMMUNICATIVE ENGLISH (P20CE101)

CO No.	Course Outcome
CO 1	To make students to understand the basic skills of Communication.
CO 2	Ability to communicate ideas logically.
CO 3	Demonstrate the ability to extract and convey information accurately in a variety of formats.
CO 4	To develop the confidence level of the students in public.
CO 5	To train the students skills through practical usage.

**COMMON PAPER FOR ALL PG
SECOND SEMESTER**

**TEACHING SKILLS: TEACHING AND LEARNING PROCESS AND CORE
TEACHING SKILLS (P20TS201)**

CoNo.	Course Outcome
CO1	Analyse the concept of teaching and its relationship with learning process in the classroom.
CO2	Understand the nature of learner in the present study context
CO3	Understand the needed shifts in teaching-learning process.
CO4	Articulate subject related broad objectives in terms of specific relations objectives
CO5	Demonstrate core teaching skills at competence level

Life Skills (P20LS201)

CoNo.	Course Outcome
1	Gain Self Competency and Confidence
2	Gain Intellectual & Emotional Competency
3	Gain an edge through Professional Competency
4	Aim for high sense of Social Competency
5	Be an integral Human Being

DEPARTMENT OF TAMIL