

**NALLAMUTHU GOUNDAR MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI**

**1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT**

<b>Name of the Course</b>	<b>Course Code</b>	<b>Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development</b>
Indian Cultural Heritage Perspectives For Tourism	20UHY509	EM: Art and Architecture, Nayaks , Indo Sarsanic, Village Festivals Activities: Assignments, Seminar
Elective – I Introduction to Historiography	20UHY510	EM: Branches of History, Uses and Abuses, Collection of Materials Activities: Assignments, Seminar
World History - I	20UHY511	EM: French Revolution 1789 ,First World War , American War of Independence Activities: Assignments, Seminar
Windows Based Office Automation	20UHY512	SD:Introduction to MS-Office , Printing Presentations Activities: Assignments, Seminar, Lab
Computer Practical	20UHY513	SD: M.S. Word , M.S. Excel , M.S. Power Point Activities: Assignments, Seminar, Lab
Elective – II Archaeology	20UHY514	EM: Methods of Excavation – Scientific Dating, Ancient Pottery Activities: Assignments, Seminar, Field Visit
Network and Information Security	20UHY5S1	EM:Various Operating Systems, Network Hacking techniques and Vulnerability scanning, WIRESHARK and SYSLOG Activities: Assignments, Seminar
Cyber security – Ethical Hacking	20UHY5S2	EM: Secret tracking and hacking infrastructure, Ethical hacking in Cyber space, Use of hacking tools such as Metasploit, Aircracking, SQLmap, Network basics, Explore the threat landscape Activities: Assignments, Seminar
Hotel Management	20UHY615	EM:Telecommunication Department , Food Service Management Activities: Assignments, Seminar
History of Kongu Country	20UHY616	EM:Kongu Cholas , Tribal Culture , Growth of Agriculture and Industries Activities: Assignments, Seminar

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World History - II	20UHY617	EM:U.N.O, NAM, SAARC, European Economic Union Activities: Assignments, Seminar
Elective – II Freedom Struggle	20UHY618	EM: Indian National Congress , Gandhian Era , Integration and Reorganization Activities: Assignments, Seminar
Application of internet for History	20UHY619	EM:Internet, IP Address – Domain Name – URL, Electronic Mail Activities: Assignments, Seminar
Tourist Destination in India/	20UHY6S3	EM: Northern India, Southern India Activities: Assignments, Seminar
Medical Tourism	20UHY6S4	EM:Nature of Medical Tourism, Trends in Kerala – Coimbatore, Tourist Products : Medicinal Plants Activities: Assignments, Seminar
History of India from 1526 A.D to 1707 A.D	21UHY305	EM:Sher Shah-Administration,–Administration,Mansabdari System - Art and Architecture Activities: Assignments, Seminar
World History - I	21UHY306	EM: French Revolution 1789 ,First World War , American War of Independence Activities: Assignments, Seminar
Indian Constitution	21UHY3A3	EM: Parliament and Law Making, Major Amendments - 73rd,74th Constitutional Amendment Activities: Assignments, Seminar
National Movement	21UHY3N11	EM: Indian National Congress , Gandhian Era , Integration and Reorganization Activities: Assignments, Seminar
Eminent South Indians	21UHY3N12	EM: C.Rajagopalachari'S Administrative Reforms , E.V. Ramasamy Naickar'S Political and Social Contributions Activities: Assignments, Seminar

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History of India from 1707 A.D. to 1857 A.D.	21UHY407	EM: Administration of Robert Clive, Permanent Land Revenue Settlement, Macaulay Commission, Lord Dalhousie: Administration Activities: Assignments, Seminar
World History - II	21UHY408	EM: U.N.O, NAM, SAARC, European Economic Union Activities: Assignments, Seminar
Journalism	21UHY4A4	SD: Role of the Reporter - Editor, Techniques of Advertisements Activities: Assignments, Seminar
Gandhian thoughts	21UHY4N21	EM: Champaran Satyagraha, Khadi, Cottage Industries Activities: Assignments, Seminar
Women Studies	21UHY4N22	EM: Development of Women and Children in Rural Area (DAWCRA), Social Upliftment Activities: Assignments, Seminar
History of India upto 647 A.D	22UHY101	EM: Influence of Geography on Indian History, The Mauryan Administration, Gupta's Administration Activities: Assignments, Seminar
History of Tamilnadu upto 1565 A.D.	22UHY102	EM: Sangam Age, Cholas Local Administration - Art and Architecture Activities: Assignments, Seminar
Panchayat Raj in India	22UHY1A1	SD: Budget allocation - Financial management Activities: Assignments, Seminar
History of India From 647 A.D. to 1526 A.D.	22UHY203	EM: Administration, Central and Provincial Administration Activities: Assignments, Seminar
History of Tamilnadu from 1565 A.D to 2000 A.D	22UHY204	EM: Nayaks Administration, Vellore Mutiny, Dravidian Movement - Justice Party - Self Respect Movement Activities:

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		Assignments, Seminar
Indian Administration	22UHY2A2	EM: Evolution of Civil Service, Recruitments to All India Services Activities: Assignments, Seminar
Drama I	21UEL305	SD : Dramatic Skills/Language skills/confidence skills
Creative Writing	21UEL306	EM : Blogging/Digital Creativity/Hypersimulation EN: Blogging/Digital Creativity/Hypersimulation/Canva Designing SD: Creative skill/Applying skill/Designing skill/Technical skill
NME-I Visual Communication	21UEL3N1	EM : Making of Advertisement/photo/video editing/creating videos/making short films EN: Advertisement Designer/Caption writers/Videographers/Movie makers SD: Creative skill/Applying skill/Designing skill/Technical skill/Writing and Directing skill
NME-II Creative Writing	21UEL3N2	EM : Blogging/Digital Creativity/Hypersimulation EN: Blogging/Digital Creativity/Hypersimulation/Canva Designing SD: Creative skill/Applying skill/Designing skill/Technical skill
Drama II	21UEL407	SD :Dramatic Skills/Language skills/confidence skills
Children's Literature	21UEL408	EN: Recreating comics/Illustrating Graphics/Cartoon Script Creator EM: Recreating comics/Illustrating Graphics/Cartoon Script Creator SD:Illustrating Skills/Recreatin Skills/Fantasy Thinking
Translation Studies and World Literature in Translation	20UEL511	EM:Translators
Computing Skills for Research	20UEL513	SD : Computing skill/Research skill for Documentation

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Travel and Writing: Theory and Practice	20UEL514	EM: Blog Writer/Travelogue Writer/Column Writer EN: Blog Writer/Travelogue Writer/Column Writer
Film Studies	20UEL624-	EM:Story Board Creator SD:Dramatic Skills/Interview Skills EN: Advertisement Designer/Caption writers/Videographers/Movie makers
Survey of Literature in English(for cracking UGC NET/SET), NME- English for International Examinations	20UEL619, 20UEL4N3	EM:Cracking Competitive Examinations
NME- Corporate English	21UEL4N4	EN:Corporate Trainers EM: Employability in Corporate Sectors SD:Communicative/Ethical Skills
Monetary Economics	20UEO509	Employability : Trade Cycle – Types – Stages of Trade Cycle – Theories of Trade Cycle – Sunspot Activities : Seminar, Assignments and Group Discussion
Human Resource Management	20UEO510	Employability : Recruitment and Selection Skill development : Retirement Benefits to Employees Entrepreneurship : Ethics in Job Design,Wage and Salary Administration, Activities : Seminar, Assignments and Group Discussion
Investment Policies And Programmes	20UEO511	Employability : Investment,Factors Favourable for Investment,Shares Market Activities : Seminar, Assignments and Group Discussion
Statistical Methods - I	20UEO5E1	Employability : Scope of Statistics Skill Development : Formulation of Frequency Distribution Activities: Seminar, Assignments and Group Discussion

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Office Management	20UE05E2	Employability : Filling Systems Importance – Essentials Skill Development : Office Stationery,Purchase of Office Stationeries Entrepreneurship : Office Appliances Activities: Seminar, Assignments and Group Discussion
Window Based Office Automation and Tally	20UE0512	Employability : Editing a Document,Different Views in Power Point Skill Development : Tally Accounting - Groups and Ledgers - Creating, Altering and Deleting a Ledger - Accounting Vouchers. Activities: Seminar, Assignments and Group Discussion
Programing Lab in Window Based Office Automation and Tally	20UE0513	Employability : Inventory Report,Increment Abstract, Creating a Pie Diagram Skill Development : Invoice Report, Creating a Company, Group Creation, Creation of Stock Group, Creation of Stock Item Activities: Seminar, Assignments and Group Discussion
Network and information security	20UE05S1	Employability : Network Hacking techniques Skill Development : Online tracking by hackers. Activities: Seminar, Assignments and Group Discussion
Cyber Security – Ethical Hacking	20UE05S2	Employability : Ethical hacking in Cyber space, Handling Mail Activities: Seminar, Assignments and Group Discussion
Public Finance	20UE0614	Employability : Principle of Maximum Social Advantage,Public Revenue – Meaning – Sources,Meaning – Nature and Scope Activities: Seminar, Assignments and Group Discussion
Industrial Economics	20UE0615	Employability : MSMEs.

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Economics of Transport	20UEO616	Employability : Port Development in India Entrepreneurship : Taxation of Motor Transport in India Skill development : Role of Transport in Economic Development Activities: Seminar, Assignments and Group Discussion
Statistical Methods - II /	20UEO6E3	Employability : Time Series Analysis, Methods of Sampling and Sampling Theory, Growth of Indian Statistics Skill Development : Index Numbers Activities: Seminar, Assignments and Group Discussion
Principles of Management	20UEO5E4	Employability : Functions of a Manager, Planning Process Skill Development : Career Development - Career stages – Training Activities: Seminar, Assignments and Group Discussion
Tourism Economics	20UEO6E5	Employability : Tourist Information Offices in India Skill development, Tourist Information Offices Overseas, India Tourism Development Corporation (ITDC) Activities: Seminar, Assignments and Group Discussion
Women and The Economy	20UEO6E6	Employability : Role of Women in the Development of Indian Economy Skill development : Women in Self Help Group Entrepreneurship : Informal Sector, Cottage and Small Scale Industries Activities: Seminar, Assignments and Group Discussion
Internship Program/Economic Reviews	20UEO617	Skill Development (100%)
Advertising and Sales Promotion	20UEO6S3	Employability : Sales Promotion: Meaning – Objectives Entrepreneurship : Features of Salesmanship Skill Development : Role of Advertising in Modern Business World.

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Principles of Airport Economics	20UEO6S4	Employability : Airport Demand Analysis Skill Development : Airport Quality Performance Entrepreneurship : Airport Revenue Activities: Seminar, Assignments and Group Discussion
Macro Economics	21UEO305	Employability : Circular Flow of Income,Consumption Function,Investment Activities: Seminar, Assignments and Group Discussion
Economics Of Development And Planning	21UEO306	Skill Development : Objectives of Economic Planning Employability : Measures Undertaken to Unearth Black Money Activities: Seminar, Assignments and Group Discussion
Banking Law And Practice	21UEO3A3	Employability : LIC policies Entrepreneurship : Fixed Deposits – Legal Position Transferability, Loss of Deposit Receipt- Deposit in Joint Names – Saving Deposit Account – Recurring Deposit Account or Cumulative Deposit Account – Current Deposit Account, Secured and Unsecured Advances Activities: Seminar, Assignments and Group Discussion
Advertising And Sales Promotion	21UEO3N1	Skill Development : Role of Advertising in Modern Business World Employability : Sales Promotion: Meaning – Objectives Activities: Seminar, Assignments and Group Discussion
Economics For Competitive Career Development	21UEO3N2	Employability : Poverty - Eradication Measures Skill Development : Monetary Policy - Fiscal Policy Entrepreneurship : New Trade Policy. Activities : Seminar, Assignments and Group Discussion



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History Of Economic Thought	21UEO407	Employability : Mercantalism,Physiocracy,Amartya Sen,Phases of Gandhi’s Economic Thought,Gandhi’s views on Cottage industries Activities: Seminar, Assignments and Group Discussion
Mathematical Methods	21UEO408	Employability : Applications in Economics Skill Development : Importance of Mathematical Tools in Economic Analysis Activities: Seminar, Assignments and Group Discussion
Business Communication	21UEO4A4	Skill Development : Application Letters,Report Writing Employability : Business Letters – Functions,Drafting of Advertisement,Insurance Activities: Seminar, Assignments and Group Discussion
Information Management	21UEO4N1	Entrepreneurship : Vennfer for Corporates –VertuTi – Blackberry– Wi-Fi Technology – Blu-ray Disc – CISCO Telepresence– Office 2020–NEC Vivid Office 2020 Employability : Report Writing – Form of the Report – Guiding rules for Reports – Precis writing Activities: Seminar, Assignments and Group Discussion
Principles Of Airport Economics	21UEO4N2	Skill development : Airports and Competition – Airport Competitiveness – Airport Competitive Factors,Aeronautical and Non-Aeronautical Revenue. Activities: Seminar, Assignments and Group Discussion
Micro Economics - I	22UEO101	Skill Development: Choice in a Free Economy& Planned Economy- Societies Production Possibility Curve. Entrepreneurship : Producer’s Equilibrium through Isoquants – Economies of Large Scale production-Internal and External Economies. Activities: Seminar, Assignments and Group Discussion

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Indian Economy	22UEO102	Employability: Economic Development, Globalization Activities: Seminar, Assignments and Group Discussion
Micro Economics - II	22UEO203	Employability: Monopolistic Competition, Selling Costs, Wage Differentials, Wage Differentials Activities: Seminar, Assignments and Group Discussion
International Economics	22UEO204	Employability: Features of International Trade, Exchange Rate, World Bank Activities: Seminar, Assignments and Group Discussion
Disaster Management	22UEO2A2	Employability: Role of Government (local, state and national), Non-Government and Inter-Governmental Agencies. Entrepreneurship: Training and Drills for Disaster Preparedness - Awareness generation program Activities: Seminar, Assignments and Group Discussion
Classical Algebra	22UMS101	EM: Exponential and logarithmic series SD: Theory of equations - Characteristic roots and Characteristic vectors Activities: Assignments, Seminar
Calculus	22UMS102	EM: Partial Differential Equations - Multiple Integrals SD: The Laplace Transforms Activities: Assignments, Seminar
Mathematical Statistics-I	22UMS1A1	EM: The conditional Distribution Function and Conditional Probability Density function - Mathematical Expectation or Expected value of Random variable SD: Binomial distribution - Normal distribution Activities: Assignments, Seminar

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Ancillary Mathematics for Chemistry-I	22UCY1A1	SD: Characteristic Equation of a matrix - Cayley-Hamilton's theorem - Beta, Gamma Functions Activities: Assignments, Seminar
Ancillary Mathematics for Physics-I	22UPS1A1	SD: Characteristic Equation of a matrix - Cayley-Hamilton's theorem - Beta, Gamma Functions Activities: Assignments, Seminar
Trigonometry ,Vector Calculus and Fourier Series	22UMS203	EM: Fourier Series SD: Vector differentiation- Vector integration Activities: Assignments, Seminar
Analytical Geometry	22UMS204	EM: Polar Equations SD: Cone, Cylinder and Central quadrics Activities: Assignments, Seminar
Mathematical Statistics-II	22UMS2A2	EM: Karl Pearson's co-efficient of Correlation- Linear Regression SD: Applications of Chi- square Distribution, Applications of F-Distribution Activities: Assignments, Seminar
Ancillary Mathematics for Chemistry-II	22UCY2A2	SD: Laplace Transforms- Vector Differentiation- Line Integral - Surface Integral - Volume Integral Activities: Assignments, Seminar
Programming Lab for Chemistry using MATLAB	22UCY2A3	EN: All the programs Activities: Assignments, Seminar and lab session
Ancillary Mathematics for Physics-II	22UPS2A2	SD: Laplace Transforms- Vector Differentiation- Line Integral - Surface Integral - Volume Integral -Vector Integration Activities: Assignments, Seminar

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Programming Lab for Physics using MATLAB	22UPS2A3	EN: All the programs Activities: Assignments, Seminar and lab session
Dynamics	21UMS305	SD: Projectiles -Simple Harmonic Motion - Collision of elastic bodies Activities: Assignments, Seminar
Numerical Techniques	21UMS306	SD: The solution of Numerical Algebraic and Transcendental Equations-Simultaneous Linear Algebraic Equations- Simultaneous Linear Algebraic Equations- Interpolation- Numerical Differentiation- Numerical Integration-Numerical Solution of Ordinary Differential Equations- Numerical Solution of Partial Differential Equations Activities: Assignments, Seminar
NME: Quantitative Aptitude-I	21UMS3N1	EM: Ratio and Proportion -Profit and loss Permutations and Combinations -Probability SD: Concept of percentage -BODMAS rule Activities: Assignments, Seminar
NME: Astronomy I	21UMS3N2	EN: Zodiacal light - Zodiacal Constellations Activities: Assignments, Seminar
Statics	21UMS407	EM: Parallel forces - Couples - Equilibrium of three forces acting on a rigid body -Friction and Centre of gravity Activities: Assignments, Seminar
Operations Research - I	21UMS408	EM: Transportation Problem - Assignment & Replacement Problem SD: Linear Programming Problem: Graphical Solution and Extension Activities: Assignments, Seminar

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NME - Quantitative Aptitude - II	21UMS4N1	EM: Problems on ages -Time and work Time and Distance -Problems on trains, Boats and Streams Activities: Assignments, Seminar
Astronomy-II	21UMS4N2	EN: summer and winter full moons path of the moon with respect to the sun - Sidereal clock - Chronometer Activities: Assignments, Seminar
Modern Algebra	20UMS509	EM: Normal Subgroups and Quotient Groups - More Ideals and Quotient Rings Activities: Assignments, Seminar
Real Analysis-I	20UMS510	EM: Cartesian product of two sets - Countable and uncountable sets - Euclidean space $R^n$ - Compact subsets of a metric space - Connectedness - Uniform continuity and compact sets Activities: Assignments, Seminar
Operations Research - II	20UMS511	EN: Sequencing problems - Inventory control SD: Games and strategies -Network scheduling by PERT/CPM Activities: Assignments, Seminar
Theory of Numbers	20UMS512	EM: Principles of Mathematical Induction - Euclid's Division Lemma - Divisibility - Permutations and Combinations SD : Polynomial Congruences - Some Unsolved Problems About Primes Activities: Assignments, Seminar
Programming in C	20UMS5E1	SD: User defined Functions - Pointers Activities: Assignments, Seminar and lab session

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Programming Lab in 'C'	20UMS5E2	EN: Program to convert the given temperature in Fahrenheit to Celsius- Program to convert days into months and days - Program to find the solution of quadratic equation - Program for finding Fibonacci sequence - Program to sort a list and find its median - Activities: Assignments, Seminar and lab session
Network and Information Security	20UMS5S1	EM: Configure and architect a small network for physical and wireless security SD: Online tracking by hackers Activities: Assignments, Seminar
Cyber security – Ethical Hacking	20UMS5S2	EM: Ethical hacking in Cyber space SD: Discover vulnerabilities & exploitation of hacking in cyber network servers Activities: Assignments, Seminar
Linear Algebra	20UMS613	EM: Vector Spaces - Subspaces - The Algebra of Linear Transformations - Representation of Transformations by Matrices SD: Matrices and Elementary Row Operations -The Transpose of a Linear Transformation Activities: Assignments, Seminar
Real Analysis-II	20UMS614	EM: Mean Value Theorems for Riemann-Stieltjes Integrals SD: Integration by parts Activities: Assignments, Seminar
Complex Analysis	20UMS615	SD: Limits and Continuity -Sequences - Series - Uniform Convergence - Zeros and Poles Activities: Assignments, Seminar

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Discrete Mathematics	20UMS6E3	EM: Lattices and Boolean Algebra -Graph Theory -Language , Grammar and Automata SD: Polynomials and their Evaluations - Solution of Finite order Homogeneous (linear) Relations - Solution of Non-Homogeneous Relations Activities: Assignments, Seminar
OOP with C++	20UMS6E4	EN: Classes and objects -Constructors and Destructors - Pointers, Virtual Functions and Polymorphisms Activities: Assignments, Seminar and lab session
Programming lab in OOP with C++	20UMS6E5	EN: Program to find the Mean and variance - Program to find the largest of two numbers using nesting of member functions Activities: Assignments, Seminar and lab session
Mathematics for Finance	20UMS6S3	SD: Types of ratios Activities: Assignments, Seminar
Acturial Mathematics	20UMS6S4	SD: Variable Interest Rates Activities: Assignments, Seminar
Basic Electronics & Circuit System	20UPS510	EM: Photovoltaic cells - Photodiodes - Phototransistors - Light power transfer beam detector SD: Thevenin's Theorem - Norton's Theorem - Maximum theorem EN: LED: Bar graph display, drivers and LED arrays Activities: Assignments, Seminar, Lab Sessions

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Relativity & Quantum Mechanics	20UPS509	<p>EM: - Relativistic Doppler effect - Cerenkov radiation - Gamma ray microscope &amp; Diffraction of a beam of electrons by a slit. Schrödinger's equation for the Hydrogen atom - Separation of variables- Expression for the energy of the electron in the ground state – Principal Quantum number , Orbital Quantum number &amp; Magnetic Quantum number</p> <p>SD: Michelson Morley experiment - Einstein's postulates and Lorentz transformations - Length contraction, Time dilation- Qualitative discussion of bending of light - Precession of perihelion of mercury and gravitational red shift. Activities : Assignments, Seminar</p>
C Programming & Information Security	19UPS615	<p>EM: if...else - Nesting of if...else - else if ladder - Switch - while - do...while - for statements - - Arguments but no return values - Arguments with return values - Recursion - Defining a structure - Declaring structure variables - Accessing structure members-</p> <p>SD: Basic Structure of C Programs - Character set - Key words and Identifiers - Constants - Variables - Data types – Declaration of variables – Assigning values to variables – Defining symbolic constants</p> <p>EN: – Wireless Network – Basics of Internet. Types of Attack: Phishing, Spoofing, Impersonation, Dumpster diving – Information Security Threats and Spoofing Identity, Tampering with data.</p> <p>Activities : Assignments, Seminar</p>



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Electronics Lab	20UPS616	SD: Verification of Thevenin's theorem- Verification of Norton's theorem-Verification of Maximum power transfer theorem- EN: Voltage doubler-Two pin regulated power supply - Transistor characteristics - Common Base mode- Transistor characteristics - Common Emitter mode Activities : Lab sessions
Mechanical Measurements	20UPS5S1	EM: Piezometer - U tube double column monometer – Bourdon gauge - McLeod gauge - Cup and Vane anemometers - Hotwire anemometer - Ultrasonic flow meter - Thermal flow meter - Hydrometer SD: Range and span - Accuracy, error and correction – Calibration - Hysteresis - Dead zone – Drift – Sensitivity - Photoelectric transducer - Piezo electric transducer Activities : Assignments, Seminar
Fundamentals of Biophysics	20UPS5S2	EM: Different types of Light microscopy – Basics of TEM, SEM – Introduction to X-ray crystallography and NMR SD: function of Proteins, Nucleic acids, Carbohydrates and Lipids.The nervous system – Physics of membrane potentials – Sensory mechanisms – The Eye – Physical aspects of hearing. Activities : Assignments, Seminar

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Environmental Instrumentation	19UPS6S3	EM : Geiger Muller Counter – Ionisation chambers – The Scintillation counter – Neutron detection - Sulfur dioxide measurements – Combustion products measurements SD: Temperature scales - The ideal gas - Thermometer - Temperature measurement by mechanical effects - Electrical resistance thermometer - Thermistors – Infrared pyrometers – Optical pyrometers Activities : Assignments, Seminar
Fundamentals of Astrophysics	20UPS6S4	SD : Ray Diagrams, Focal length, Magnification – Diffraction: Resolving Power- The Cosmological Principle, Homogeneity and Isotropy, Olber’s Paradox – Introductory to Cosmological Models: Critical Density Activities : Assignments, Seminar
Principles of Physics – I	20UPS3N1	EM: Solar cell principle, Solar cell modules, Applications of solar photovoltaic system, Tube Lights: Role of chokes of Starter, Reason for no sharp shadows, Measurement of Rain SD: LED, Integrated circuits EN: Microwave oven, Photocopier, Solar water heating Activities : Assignments, Seminar
Principles of Physics – II	20UPS4N3	EM: Refrigerants and their use in refrigerators, Air Cooler & Conditioner, TFM on soap, Artificial teeth SD: Black box in Planes, Speech synthesizers, Lie detector, Super Computers, Computers Simulation EN: Remote control in TV, Cell phones, Battery-Types of Battery, Hot air balloons
Physics For Mathematics & Chemistry- I	20 UMS 3A3/20 UCY 3A3	EM: Hydrogen Black body radiation and Planck’s hypothesis EN: Construction and types of optical fiber, Fiber optic communication system

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Electricity & Magnetism	20UPS305	EM: Growth and decay of current - RC circuit - Charging and discharging of a condenser - Ideal LC circuit - Series LCR circuit - Discharge of a condenser through inductance and resistance SD: Potential and field due to a quadrupole - Potential and field due to uniformly charged disc - Potential due to two concentric spherical shells of charge - Potential energy due to charge distribution. EN: Capacity of a parallel plate capacitor partially and completely filled with dielectric
Heat & Thermodynamics	21UPS202	EM : Reversible and Irreversible process - Second law of thermodynamics - Carnot's reversible engine - Carnot's theorem SD: First, Second and Third law of thermodynamics -Entropy- Maxwell's thermo-dynamical relations EN :Liquefaction of Oxygen - Air (Linde's process) - Hydrogen (Cascade process) - Liquefaction of Helium - K.Onnes method - Helium I and Helium II - Production of low temperature
Classical Dynamics	19UPS508	SD: Principle of virtual work - D'Alembert's principle - Linear harmonic oscillator, Simple pendulum, Compound pendulum - Hamilton's canonical equations of motion - Hamilton Jacobi equation for Hamilton's Characteristic function Activities: Assignments, Seminar
Optics & Spectroscopy	20UPS405	EM: Testing the planeness of surfaces - Block diagram of NQR spectrometer – ESR: Interaction with magnetic field - Block diagram of ESR spectrometer SD: Fresnel's biprism experiment - Determination of wavelength - Theory of the plane transmission grating - Determination of wavelength

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Computer Lab in C	19UPS618	EM: Quadratic equation- Fibonacci number - Armstrong number SD: Largest /Smallest of three numbers - Electric Power Consumption - Sorting of names Activities: Lab Sessions
Properties of Matter	21UPS101	EM: Earth Quakes, Young's modulus, and Piezoelectric and Magnetostriction Oscillators EN: Torsional Pendulum, Surface tension, Acoustics Activities: Assignments, Seminar, Lab Sessions
Atomic and Nuclear Physics	20UPS613	EM: X-rays, Nuclear reactors, cosmic rays EN: Millikan's Experiment Activities: Assignments, Seminar, Lab Sessions
Mathematical Physics	20UPS612	EM: Gradient of scalar field. Divergence theorem, Stokes theorem, curvilinear coordinates, Types of matrices, Properties of Laplace transform, Properties of inverse Laplace transform, Bisection method, iterative method, Newton Raphson method, Trapezoidal rule, Simpson rule Activities: Assignments, Seminar,
Core Paper – V Coordination and Bioinorganic Chemistry	20UCY507	Employability: Introduction to coordination chemistry, Theories of coordination compounds, Reaction Mechanism in Complexes. Entrepreneurship: Applications of coordination compounds, properties of complexes and Bioinorganic chemistry. Activities: Seminar, Assignments and Group Discussion
Core Paper – VI Organic Chemistry - I	20UCY508	Employability: Molecular Rearrangements, Heterocyclic compounds, Carbohydrates. Entrepreneurship: Alkaloids, Terpenoids. Activities: Seminar, Assignments and Group Discussion

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core Paper – VII Electro Chemistry	20UCY509	Employability: Electrodes for the measurement of pH, Batteries, Electrochemical corrosion Skill development: Transport Number, conductometric titrations, Electrochemical cells, Applications of EMF measurements. Activities: Seminar, Assignments and Group Discussion
Core Paper- VIII Dye Chemistry	20UCY510	Employability : Theories of colour and constitution, Nitro dyes, Nitroso dyes, Diphenyl methane dyes, Anthraquinone dyes and Organic Pigments. Skill Development : Electromagnetic spectrum, Textile fibres and Various methods of dyeing. Activities: Seminar, Assignments and Group Discussion
Core Elective I- Analytical Chemistry – I	20UCY5E1	Employability : TGA, Electrogravimetry, DTA, TTA, chromatographic techniques . Skill Development : Data Analysis, Gravimetric Analysis, Polarimetry, Nephelometry, Flame photometry, Polarography, Amperometric Titrations. Activities: Seminar, Assignments and Group Discussion
Core Practical III Gravimetric Analysis and Physical Chemistry	20UCY615	Skill Development (100%)
Skill Based Elective –I Network and Information Security	20UCY5S1	Skill Development: Basics of Network , Network Hacking techniques , Network privacy issues, WIRESHARK and SYSLOG, Activities: Seminar, Assignments and Group Discussion
Skill Based Elective -I Cyber Security-Ethical Hacking	20UCY5S2	Skill Development: Secure systems from all the known attacks. Ethical hacking in Cyber space , Use of hacking tools such as Metasploit, Aircrack-ng, SQLmap. Explore the threat landscape - Darknets. Activities: Seminar, Assignments and Group Discussion

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core Paper – IX Physical Methods and Chemical Structure	20UCY611	Employability: Molecular spectroscopy, Microwave spectroscopy, IR spectroscopy, Raman, UV-visible spectroscopy, NMR, EPR. Activities: Seminar, Assignments and Group Discussion.
Core Paper – X Organic Chemistry-II	20UCY612	Employability : Amino acids, Proteins, Nucleic Acids and Vitamins. Skill Development : Solving problems of structures of organic compounds based on reactions and Chemotherapy. Activities: Seminar, Assignments and Group Discussion
Core Paper – XI Chemical kinetics and Quantum Mechanics	20UCY613	Employability: Quantum Mechanics Entrepreneurship: Catalysis, Enzyme catalysis and Adsorption. Skill Development: Chemical Kinetics-I & II, Photochemistry. Activities: Seminar, Assignments and Group Discussion
Core Paper – XII Polymer Chemistry	20UCY614	Employability: Thermal stabilisers, Polymerization Techniques, Degradation processing techniques. Skill development: Molecular weights of polymers, Recent Advances in Polymers. Activities: Seminar, Assignments and Group Discussion
Core Elective II: Analytical Chemistry – II	20UCY6E2	Employability : Instrumentation - UV-Visible and IR Spectrophotometers . Skill Development : Separation techniques, qualitative analysis, Volumetric analysis, acid-base titration, redox titration, complexometric titration and precipitation titration. Activities: Seminar, Assignments and Group Discussion

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core Practical III Gravimetric Analysis and Physical Chemistry	20UCY615	Employability: Gravimetric analysis. Entrepreneurship : Heterogeneous Equilibria: Eutectic systems, Kinetics, Conductivity Experiments, Potentiometric Titrations Skill Development : Critical solution temperature, Molecular weight. Activities: Seminar, Assignments and Group Discussion
Skill Based Elective –II Green chemistry	20UCY6S3	Skill development: Twelve Principles of Green Chemistry, The need for green chemistry, Solvent free reactions, Supercritical fluids, Green Techniques. Activities: Seminar, Assignments and Group Discussion
Skill Based Elective -II Theory behind practical chemistry	20UCY6S4	Skill development: Qualitative Analysis and Estimations and Organic qualitative analysis, Gravimetric analysis and Physical Chemistry experiments. Activities: Seminar, Assignments and Group Discussion
Core - III : Inorganic and Physical Chemistry	21UCY304	Employability : Metallurgy, Fuels, Fertilizers, Thermodynamics of solutions, Chemical equilibrium and colligative properties, Activities: Seminar, Assignments and Group Discussion
Core Practical II : Volumetric and Organic Qualitative Analysis	21UCY406	Employability : Volumetric Analysis. Skill Development : Organic Qualitative Analysis, Organic Preparations. Activities: Seminar, Assignments and Group Discussion
Non Major Elective - I : Introduction to Nanotechnology	21UCY3N1	Skill Development : Preparation of nanomaterials
Non Major Elective - I : Chemistry of Consumer Products	21UCY3N2	Employability : Soaps, detergents, cosmetics, face powder, Make up preparations, Hair preparations. Activities: Seminar, Assignments and Group Discussion

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core - IV : Inorganic, Organic and Physical Chemistry	21UCY405	Skill Development :Chemistry of d- and f-block elements, Phenol, Nitrocompounds, amines, Nuclear Chemistry, Radioactivity- types of radioactivity. Employability :Extraction of Uranium ,Phase rule and phase equilibria,applications of artificial transmutation,Separation of isotopes. Activities: Seminar, Assignments and Group Discussion
Core Practical II: Volumetric, Organic Qualitative Analysis and Organic Preparations	21UCY406	Employability : Volumetric Analysis. Skill Development : Organic Qualitative Analysis, Organic Preparations. Activities: Seminar, Assignments and Group Discussion
Non Major Elective - II : Textile Chemistry	21UCY4N1	Skill Development : Dyeing Employability : Process involved in textile industry
Non Major Elective - II : Food Science and Technology	21UCY4N2	Employability : Food adulteration. Skill Development : Food preservation, Milk processing. Activities: Seminar, Assignments and Group Discussion
Allied Chemistry Paper – I Inorganic, Organic and Physical Chemistry	21UPS3A4/ 21UBY3A4/ 21UZY3A4	Employability : Water treatment, Electrochemistry and Chemotherapy. Skill Development: Chemical bonding, Coordination Chemistry, Volumetric Analysis, Aromatic compounds. Activities: Seminar, Assignments and Group Discussion
Allied Chemistry Paper – II Inorganic, Organic and Physical Chemistry	21UPS3A5/ 21UBY3A5/ 21UZY3A5	Employability : Synthetic Dyes and Polymers, Amino acids, Proteins, Carbohydrates. Skill Development : Fuels and Colloidal solution. Activities: Seminar, Assignments and Group Discussion
Allied Chemistry Practical	21UPS3A6/ 21UBY3A6/ 21UZY3A6	Skill Development : Volumetric Analysis and Organic analysis
Core - II : Organic and Physical Chemistry	22UCY202	Skill Development : Volumetric Analysis



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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core Practical I : Inorganic Qualitative Analysis	22UCY203	<p>Skill Development: Analysis of inorganic mixture and preparation of inorganic compounds.</p> <p>Employability: Analysis of inorganic mixture and preparation of inorganic compounds.</p> <p>Activities: Seminar, Assignments and Group Discussion</p>
Taxonomy of Angiosperms	20UBY507	<p>EM: Can work as consultants for various projects, offering their expertise on plant identification and classification</p> <p>SD: Developing the ability to identify angiosperms based on their key characteristics, such as leaf shape, flower structure, stem morphology, and fruit type. Activities:</p> <p>Assignments, Seminar</p>
Microbiology and plant pathology	20UBY508	<p>EM: Makig it a promising career choice for individuals interested in science, biology, and environmental issues. The specific job opportunities and career paths can vary depending on the level of education, specialization, and work experience.</p> <p>Activities: Assignments, Seminar</p>
Economic & EthnoBotany	20UBY613	<p>EN: Entrepreneurial ventures in economic and ethnobotany should be undertaken with respect for cultural and environmental sustainability, as well as adherence to ethical principles and legal regulations regarding the use of traditional knowledge.</p> <p>Activities: Assignments, Seminar</p>
Horticulture & Plant Breeding	20UBY614	<p>EN: Horticulture and plant breeding offer significant opportunities for entrepreneurs, as they are essential components of agriculture and food production. SD: To know techniques like developing new varieties to improve crop yield.</p> <p>Activities: Assignments, Seminar</p>

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Landscape designing	21UBY3N1	EN: Here are some key skills and areas of skill development for landscape designers. SD: Landscape design offers a significant scope for entrepreneurs due to its interdisciplinary nature. Activities: Assignments, Seminar
Bioinformatics	20UBY615	SD: To know techniques like developing new skills in bioinformatics. Activities: Assignments, Seminar
Biotechnology & Genetic Engineering	20UBY510	SD: To know developing new Biotechnology and genetic engineering. Activities: Assignments, Seminar
Mathematics for Biologists	20UBY511	SD: it provides the quantitative tools necessary to analyze and understand biological processes. Activities: Assignments, Seminar
Network and Information security	20UBY5S1	EM: Configure and architect a small network for physical and wireless security SD: Online tracking by hackers Activities: Assignments, Seminar
Plant Physiology	20UBY612	SD: It give to Knowledge of processes like photosynthesis, respiration, transpiration, nutrient uptake, and hormone regulation is central. Activities: Assignments, Seminar and lab session
Major Practical III – Paper XV (for V Sem theory papers)	20UBY617	SD: It help to the improve the knowledge to identification of Angiosperm plants
Major Practical IV (for VI Sem theory papers)	20UBY618	EN: It help to the improve the knowledge to observation of internal structure and plant respiration system and chemical compounds Activities: Assignments, Seminar and lab session
Forest Botany	20UBY6S3	SD: it help to the improve the knowledge to Ecological Interactions, vegetation and silviculture. Activities: Assignments, Seminar

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Anatomy and Embryology	21UBY304	SD: It help to the improve the knowledge to observation of internal structure and embryo development of plants Activities: Assignments, Seminar
Major Practical II - Paper VI (Anatomy & Embryology, Cell Biology, Biochemistry and Biophysics)	21UBY406	SD: It help to the improve the knowledge to observation of internal structure and embryo strucute and chemical compounds Activities: Assignments, Seminar
Allied Paper IV - Chemistry	21UBY3A4	SD: It help to Solve quantitative chemistry problems and demonstrate reasoning clearly and completely as applied to equilibria, chemical kinetics, electrochemistry, and solutions. Integrate multiple ideas in the problem solving process. Activities: Assignment and Seminar
Allied paper VI – Chemistry Practical	21UBY4A6	SD: Students will gain an understanding of: chemical reactions and strategies to balance them; the relative quantities of reactants and products Activities: Assignments, Seminar
Cell Biology, Biochemistry and Biophysics	21UBY405	SD: it help to the improve the knowledge to observation complex biological and biochemical processes, identify problems, and devise solutions. Activities: Assignments, Seminar
NME - Remote sensing and natural resource management/ Bioinformatics	21UBY4N3	SD: it help to the improve the knowledge to GIS, Remote Sensing Platforms and Sensors Activities: Assignments, Seminar
Plant Diversity I (Phycology, Mycology and Bryology)	22UBY101	SD:It help to known about distribution, vegetative and reproductive structures of cryptogames Activities: Assignments, Seminar
Allied - Paper I Zoology	22UBY1A1	SD: Learn the classification and evolution of invertebrates and chordates. Gain knowledge on the general structure of invertebrates and vertebrates. Develop and relate the functional physiology of species. Activities: Assignments, Seminar

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Plant Diversity II (Pteridophytes Gymnosperms and Palaeobotany)	22UBY202	SD: Getting knowledge about the vascular plants and palaeobotany Activities: Assignments, Seminar
Major Practical I – Paper III Plant diversity I & II (Phycology, Mycology and Bryology &Pteridophytes Gymnosperms and Palaeobotany) 22UBY203	20UMS511	SD: learning to thallus and internal and vegetative structure of Vascular and Non vascular plants. Activities: Assignments, Seminar
Allied - Paper II Zoology	22UBY2A2	SD: . Gain knowledge on the general structure of invertebrates and vertebrates. Develop and relate the functional physiology of species. Activities: Assignments, Seminar
Allied - Paper III Practical	22UBY2A3	SD: Gain knowledge on the morphological and reproductive structures of invertebrates and vertebrates. Develop and relate the functional physiology of species.
Environmental Studies	22EVS201	SD: A wide range of strategies aimed at enhancing human development have been proposed in academic literature to lessen the impact of climate change on people. These strategies include adaptation measures, which aim to boost behaviors that help people adapt. Activities: Assignments, Seminar
Core Paper -VII- Developmental Biology	20UZY507	SD: Fertilization Mechanism In Vitro Fertilization(IVF), • Endocrine glands (Structure & Functions), Thyroid, Parathyroid, Pancreas, Testes & ovary Activities: Assignment, seminar, power point presentation
Core Paper-VIII- Biotechnology	20UZY508	EM :Polymerase Chain Reaction (PCR) – Applications of PCR in Biotechnology • DNA Finger printing • Biofertilizer (yellow) Activities: Assignment, seminar, power point presentation

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTREPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core Paper-IX- Biostatistics and Biophysics	20UZY509	SD :Correlation $\emptyset$ Karl Pearson's coefficient of correlation Positive and negative correlation • Regression analysis • Types and methods EM: Student's T-test – Properties and Applications • Analysis of Variance (ANOVA) - One-way analysis Activities: Assignment, seminar, power point presentation
Core Paper-X Biochemistry and Bioinformatics	20UZY510	SD: Classification of Carbohydrates, Lipids and Proteins EM :Bioinformatics tools and its uses Activities: Assignment, seminar, power point presentation
Core Elective Paper-I Medical Laboratory Techniques	20UZY5E1	SD : Laboratory instruments EM: Haematology Analysis of urine, Faeces, Sputum and Semen Activities: Assignment, seminar, power point presentation
Core Elective Paper-II Poultry Science and Management Technology	20UZY5E2	SD: Nutritive value of poultry meat and eggs EM: Space requirements , Types of Houses, Summer Management-Winter management EN : Packaging and Transport and Marketing of eggs Activities: Assignment, seminar, power point presentation
Core Paper -XI Animal Physiology & Endocrinology	20UZY611	SD: Receptors : Chemoreceptore, Olfactoreceptors, Photo Receptors, Phono Receptors . Effectors: Types of Muscles Activities: Assignment, seminar, power point presentation
Core Paper-XII Ecology & Evolution	20UZY612	SD: Bio geochemical cycle, Animal relationship, Animal population,, Human Ecology, Space Ecology Activities: Assignment, seminar, power point presentation
Core Paper- XIII Microbiology & Immunology	20UZY613	SD:Classification of Microbiology and Immunology EM : Applied Microbiology Activities: Assignment, seminar, power point presentation

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTREPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core Elective Paper -III Sericulture	20UZY6E3	SD: Economic importance of sericulture • Varieties of silkworms: Mulberry silk worm: Bombyx mori Non- Mulberry silk worm: Tasar- Muga and Eri silk worms • Uses of silk EM:Moriculture: Optimum conditions for mulberry growth • Planting direction and season EN :Rearing of mature larvae: Shelf- Floor and shoot rearing • Characteristics features of ripeworm • Mounting: Methods and precaution during mounting Activities: Assignment , Seminar, Powerpoint presentation
Core Elective paper IV- Insect Pest Management	20UZY6E4	SD: Injuries and damage caused by insect pest EM: Pest control EN: Major local agricultural pest their management Activities: Assignment, seminar, power point presentation
Core Elective Paper V- Aquaculture	20UZY6E5	SD :General Characters and adaptation in fishes EM : Ornamental Fish Culture EN: Ornamental fish Culture Activities: Assignment, seminar, power point presentation
Core Elective Paper VI - Wildlife Conservation	20UZY 6E6	SD: Wild Life Management techniques Activities: Assignment, seminar, power point presentation
Core Elective Paper–VI Dairy Farming and Management Technology	20UZY 6E7	SD: Scope of dairy farming • Dairy progress in India • Milk and Milk Products • Nutritive value of milk EN:Dairy proessing and Technology . Activities: Assignment, seminar, power point presentation

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**1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT**

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Major Practical – III- Non semester Pattern- Developmental Biology, animal Physiology&endocrinology, Biostatistics and Biochemistry &MLT	20UZY614	SD:Experiments Haematology - Haemoglobin Estimation Activities:Experiments
Major Practical – IVNon semester pattern Ecology, Evolution, Biotechnology, Microbiology, Sericulture, and Aquaculture	20UZY615	SD: Experiments: Estimation of Carbondioxide Activities:Experiments
Skill Based Elective- Vermiculture	20UZY6S3	SD: Economic importance of Earthworm EM: Preparation of vermibed EN : marketing of Vermiculture . Activities: Assignment, seminar, power point presentation
Biopharmaceuticals	20UZY6S4	SD: Drug Metabolism EM: Pharmaceutical Products Activities: Assignment, seminar, power point presentation
Core III Cell Biology	21UZY304	SD: Virus –Corona cirus • Prokaryotic Cell (E.coli bacterium)Ultra Structure – Rough and Smooth types - Functions • Ribosomes: • Chromosomes: Structure – Giant chromosomes – Polytene and Lamp brush. • Nucleic acids - DNA Structure (Watson & Crick model) Activities: Assignment, seminar, power point presentation Skill Development
Non Major elective I- Public Health and Hygiene	21UZY3N11	SD: Nutrition and Health Classification of food (Macro &Micro nutrients) • Nutritional deficiencies - Vitamin and Mineral deficiencies • Balanced diet Activities : Assignment, seminar, power point presentation Skill Development

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Non Major Elective I- Ornamental Fish Culture	21UZY3N12	SD : General characters of Fish , Digestive System, Reproductive system EM:Setting of an Aquarium, Feeding methods and problems in artificial feed EN: Breeding and Spawning of live bearers and egg layers Activities: Assignment, seminar, power point presentation
Core -IV Genetics	21UZY405	SD:Interaction of genes - Lethal genes and its types - Epistasis • Polygenic inheritance: Skin colour in man 1:4:6:4:1 • Multiple alleles (problems) o Coat colour in Rabbit o ABO blood groups in man o Rh factor Activities: Assignment, seminar, power point presentation
Core Lab-II Cell Biology & Genetics( Non- Semester Pattern)	21UZY 304	SD: Experiments: Measurements Activities:Experiments
Non Major elective II- Food and Nutrition	21UZY4N3	SD: Measurement of energy and energy values of various food • Nutritional requirements – children, adolescence, old age • Balances diet • Food spoilage • Food poisoning- food borne diseases • Food adulteration Activities: Assignment, seminar, power point presentation
Non Major Elective II Apiculture	21UZY4N4	SD: Classification of honey bee Types of honey bee – Apis dorsata- Apis indica - Apis floriae- Apis mellifera Biology of honey bee – External Structure of worker bee - Life cycle of honey bee EN : Extraction of honey - Honey – Properties - Chemical composition - Value of honey (Nutritional, Medicinal values) EM:Royal jelly – Composition and functions - Bee wax – Production - Characteristics and uses. Activities: Assignment, seminar, power point presentation



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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core -I Non Chordata	22UZY101	SD: Phylum Protozoa: Paramecium – Structure- Feeding- Binary fission and Conjugation. Protozoa in Human Disease • Phylum Platyhelminthes: Taenia solium – Structure - Reproductive system and Life cycle - Parasitic adaptations in Helminth worm.
Core-II Chordata	22UZY202	SD: • Class Reptilia Type study– Calotes versicolor-Externals - Digestive system – Brain- Excretory system- Reproductive system , Parental care in fishes, Poison apparatus and biting mechanism in snakes Activities: Assignment, seminar, power point presentation
Core Lab I- NonChordata &Chordata ( Non Semester Pattern )	22UZY203	SD: Dissection - Cockroach and Fish Activities: dissection
Environmental studies	22 EVS201	SD: Natural resources and associated problems a. Forest resources b. Water resources c. Mineral resources d. Food resources e. Energy resources* 4. Biodiversity and its conservation Activities: Assignment, seminar, power point presentation
Allied Botany paper I- Nonchordata and Chordata	22UBY 1A1	SD:Outline classification of Vertebrates and Invertebrates. Structure and Life cycle – Paramecium, Obelia, Taenia solium – Vertebrate species -Shark, Rana Hexadactyla Activities: Assignment, seminar, power point presentation

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Allied Paper II - Economic Zoology	22UBY2A2	SD :Aquaculture EM: Apiculture, Sericulture, EN :poultry farming, dairy farming Activities: Assignment, seminar, power point presentation
Allied Botany paper I- Practical	22UBY 2A3	SD: Dissection - Cockroach and Fish Activities: Dissection
Algebra	22PMS101	EM: Group Theory - Vector Spaces and Modules SD: Roots of Polynomials Activities: Assignments, Seminar
Real Analysis	22PMS102	EM: Linear Transformations SD: Integration of Vector-valued Functions - The Lebesgue Integral of Bounded Measurable Function over a Set of Finite Measure Activities: Assignments, Seminar
Complex Analysis	22PMS103	SD: The Laurent Series - The Gamma Function Activities: Assignments, Seminar
Ordinary Differential Equations	22PMS104	SD: Systems of Linear Differential Equations - Boundary Value problems Activities: Assignments, Seminar
Matlab	22PMS1E1	SD: Mathematical operations with arrays EN: Programming in MATLAB Activities: Assignments, Seminar
Special Functions	22PMS1E2	SD: Laplace Definite integral for $P_n(x)$ -Orthogonal properties of Legendre's polynomials-Beta and Gamma Functions Activities: Assignments, Seminar
Programming Lab in MATLAB	22PMS1E3	EN: All the programs Activities: Assignments, Seminar and lab session

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Linear Algebra	22PMS205	EM:Cyclic Subspaces and Annihilators - Computations of Invariant Factors Activities: Assignments, Seminar
Mathematical Statistics	22PMS206	EM: Estimation: Applications EN: Estimation: Applications SD:Probability Distributions and Probability Densities - Sampling Distributions Activities: Assignments, Seminar
Partial Differential Equations	22PMS207	SD:Partial Differential Equations of the Second Order - Laplace's Equation - The Wave Equation Activities: Assignments, Seminar
Mechanics	22PMS208	SD:Derivations of Lagrange's Equations - Hamilton-Jacobi Equation. Activities: Assignments, Seminar
Numerical Analysis	22PMS209	SD:Newton's method for polynomials - The Elimination method EN: Eigen values of a matrix by iteration Activities: Assignments, Seminar
Programming Lab in Numerical analysis using Matlab	22PMS210	EN: All the programs Activities: Assignments, Seminar and lab session
Mathematical Statistics & Techniques	22PMS2N1	EM: Mean- Median- Standard deviation-Coefficient of variation -Rank Correlation SD: Z Test - t Test-Chi square Test - F Test. Activities: Assignments, Seminar
Mathematics in Finance	22PMS2N2	SD:Types of ratios EN:profitability ratios related to sales Activities: Assignments, Seminar
Topology	21PMS311	EM:The Subspace topology-Continuous functions - Components and Local Connectedness-Normal spaces Activities: Assignments, Seminar

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Functional Analysis	21PMS312	SD:Norm on a Linear Space - Convergence of Sequence of Operators Activities: Assignments, Seminar
Combinatorics	21PMS313	SD:Pairings problems-Recurrence Activities: Assignments, Seminar
Graph theory	21PMS314	SD:Cayley's formula-Euler tours and Hamilton cycles-Vizing's theorem-Directed graphs Activities: Assignments, Seminar
LaTex	21PMS3E1	EN:Document layout and Organization - Mathematical Formulas SD:Tabulator stops - Boxes - Tables Activities: Assignments, Seminar
Programming Lab in Latex	21PMS3E3	EN: All the programs Activities: Assignments, Seminar and lab session
Fluid Dynamics	21PMS415	EM:Translation, Rotation and Rate of deformation- Laplace's Equation in Cylindrical Coordinates Activities: Assignments, Seminar
Operator Theory	21PMS416	EM:Space of Compact Operators Activities: Assignments, Seminar
Algebraic Topology	21PMS417	EM:The fundamental group - Abstract Simplicial Complexes, Simplicial and Singular Homology Activities: Assignments, Seminar
Mathematical Methods	21PMS4E1	EM:Applications to Ordinary Differential Equations SD: The Method of Variations in Problems with Fixed Boundaries-Direct Methods in Variational Problems Activities: Assignments, Seminar
Fuzzy Logic and Fuzzy sets	21PMS4E2	EN:Natural, life and Social Sciences, Medican-Management and decision making, Computer Sciences, System Science and Other Applications.

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Quantum Mechanics	21PPS102	EM: Application to screened coulomb potential - Application to low energy two nucleon scattering SD: Hermitian operator - Schrodinger, Heisenberg and Dirac representation - The hydrogen atom: Equations and Solutions of $\phi$ , $\theta$ and R Activities: Assignments, Seminar
Applied Electronics	21PPS1E1	EM: Light Emitting Diode: Construction – Electrical and Optical Characteristics – Electroluminescent Source: Electroluminescent lighting panel and Display SD: JFET, Depletion MOSFET and Enhancement MOSFET - Characteristics - UJT and Relaxation Oscillator EN: Thermocouple- Pyroelectric detectors – External Photo effect Photoelectric Detectors: Photomultiplier, Internal Photoeffect Photoelectric Detectors: Photoconductors Activities: Assignments, Seminar, Lab Sessions
Advanced Quantum Mechanics	21PPS205	EM: Fermi Golden rule -Scattering of a particle by a potential – Harmonic perturbation : Amplitude for transition with change of energy, transition induced by incoherent spectrum of perturbing frequencies – Interaction of an atom with electromagnetic radiation – Einsteins’ transition probability SD: Pauli’s Exclusion Principle -spin angular momentum- experimental need for spin– Electron Spin Hypothesis : Stern Gerlach Experiment Activities: Assignments, Seminar, Project, Test
Electronic Communications and Cyber security	21PPS207	EM: Frequency Modulation: Modulation index, spectrum and bandwidth, direct generation and demodulation, superhetrodyne FM receiver SD: DSB-SC, SSB, VSB and conventional AM - Superhetrodyne AM receiver EN: Hacking and Intrusion, Privacy, Identity Theft

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
		Activities: Assignments, Seminar
Non Conventional Energy Sources	21PPS2N1	EM: Basic components of a wind energy conversion system (WECS) SD: Solar radiation at the earth surface – Physical principles of the conversion of solar radiation into heat EN: Solar water heating – Solar cooking Activities: Assignments, Seminar
Biomedical Instrumentation	21PPS2N2	EM: Characteristics of the recording system – Electrocardiography (ECG) – Electroencephalography (EEG) – Electromyography (EMG) SD: Surgical diathermy – Shortwave diathermy – Microwave diathermy – Ultrasonic diathermy EN: Pacemakers – Pacemaker batteries – Artificial heart valves – Defibrillators Activities: Assignments, Seminar
General Physics Lab I	22PPS208	EM: Temperature coefficient and band gap energy of a Thermistor - Specific heat of a liquid - Ferguson's method- Refractive index of a liquid & Absorption coefficient of transparent Material –Laser Source - Biprism – Determination of $\lambda$ of monochromatic source & thickness of a transparent sheet SD: Young's modulus - Elliptical fringes - Cornu's method- e/m – Thomson's method - Stefan's constant Activities: Lab sessions

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTREPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Molecular Spectroscopy	21PPS310	<p>EM: - Theory of Microwave Spectroscopy - the measurement of internuclear distance - the determination of the bond lengths -                      - Fourier transform IR spectroscopy-Structure determination from Raman &amp; IR spectroscopy-Mossbauer instrumentation -                      Applications - Electronic spectroscopy</p> <p>SD: Group - Group Multiplication table - Classes - Symmetry elements and Symmetry operations –symmetry planes and reflections - the inversion centre - proper axes and proper rotations</p> <p>EN: NMR imaging</p> <p>Activites : Assignments, Seminar</p>
Lasers & Non-Linear Optics	21PPS412	<p>EM: Laser rate equations for two, three &amp; four level systems-                      Nd YAG laser - Helium Neon laser - Carbondioxide laser -                      Semiconductor diode laser - Excimer laser - Dye laser -                      Chemical laser - X ray laser - Free electron laser - Fiber laser -                      Color center laser - Material working</p> <p>SD: Energy levels - Thermal equilibrium - Relationship between Einstein's coefficients - Condition for large Stimulated emissions -                      - Condition for light amplification - Harmonic generation -                      Second harmonic generation - Phase matching Third harmonic generation</p> <p>EN : Holography - Measurement of distance - Laser in medicine-Laser cooling and Trapping of neutral atoms</p> <p>Activities: Assignments, seminar</p>

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Statistical Mechanics	22PPS204	EM: Viscosity from Brownian movement – Onsager solutions - Specific heat of solids SD: Microstates and Macro states – Division of phase space into cells - Classical Maxwell Boltzmann distribution law – Most probable speed , Mean speed , Mean square speed , Rootmean square speed Activities: Assignments, Seminar
Electronic Communications and Cyber security	22PPS207	EM: Frequency Modulation: Modulation index, spectrum and bandwidth, direct generation and demodulation, superhetrodyne FM receiver SD: DSB-SC, SSB, VSB and conventional AM - Superhetrodyne AM receiver EN: Hacking and Intrusion, Privacy, Identity Theft Activities: Assignments, Seminar
Non Conventional Energy Sources	22PPS2N1	EM: Basic components of a wind energy conversion system (WECS) SD: Solar radiation at the earth surface – Physical principles of the conversion of solar radiation into heat EN: Solar water heating – Solar cooking Activities: Assignments, Seminar
Biomedical Instrumentation	22PPS2N2	EM: Characteristics of the recording system – Electrocardiography (ECG) – Electroencephalography (EEG) – Electromyography (EMG) SD: Surgical diathermy – Shortwave diathermy – Microwave diathermy – Ultrasonic diathermy EN: Pacemakers – Pacemaker batteries – Artificial heart valves – Defibrillators Activities: Assignments, Seminar



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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTREPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Thin film & Nano science	21PPS3E2	EM: Integrated circuits SD: Thermal Evaporation, RF Sputtering, Pyrolysis, Chemical Bath deposition, Ball milling, Laser induced evaporation, Pulsed laser evaporation, Sol-gel process, Self assembly, Solvo thermal process- Electro chemical synthesis, Thermolysis EN: Lithography
Microprocessor & Object-Oriented Programming With C++	21PPS4E3	EM : Instruction set - Data transfer instructions-Arithmetic instructions - Logical and Branch instructions - Stack, I/O & Machine control instructions SD: Defining Operator Overloading - Overloading Unary & Binary Operators - Overloading Binary Operators using Friends - Rules for Overloading Operators EN: Steps involved in Microprocessor programming - Straight line programs - Looping programs - Mathematical programs - Interfacing with ROM & RAM - I/O interfacing basics - Interfacing with practical I/O ports
Condensed Matter Physics	21PPS311	EM: Braggs law, Ferroelectric materials, superconductors. Activities: Assignments, Seminar, Lab Sessions
Nuclear & Particle Physics	21PPS413	EM: Nuclear Models, Alpha, Beta and gamma decay, Nuclear reactors and cosmic rays Activities: Assignments, Seminar, Lab Sessions
Advanced Corporate Accounting	22PCO101	EM: Financial statements EM: Insurance Company Accounts and AS Activities: Seminar, Group Discussion, Assignment
Business Environment	22PCO102	EM: FDI EM: Indian Government Policy Activities: Seminar, Assignment

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Marketing Research	22PCO103	SD: Need for marketing research Activities: Seminar, Group Discussion, Assignment
Internet, HTML and Cyber Security	22PCO104	EM: Network Security Activities: Seminar, Group Discussion, Assignment
Programming Laboratory-HTML	22PCO105	SD: Web Page EM: Create a HTML Web page to list out the syllabus of Internet and Web page SD: Create a HTML document to create Frames within a Webpage Activities: Seminar, Assignment
Operations Research	22PCO206	EM: Linear Programming Problems
Strategic Management/	22PCO2E1	SD: Network scheduling by PERT/CPM SD: Business Decision Activities: Seminar, Assignment
Business Research Methods	22PCO207	SD: Report Writing SD: Hypothesis Testing Activities: Seminar, Group Discussion, Assignment
NME : Investment Management	22PCO2N1	EM: Share Market SD: Bonds Activities: Seminar, Group Discussion, Assignment
Applied Cost Accounting	21PCO309	EM: Preparation of Cost Sheet SD: Tender Activities: Seminar, Group Discussion, Assignment
Direct Taxes	21PCO310	EM: Procedure of e-filing. Activities: Seminar, Assignment, Test
Financial Modelling	21PCO311	EM: Formatting of Excel Sheets Activities: Seminar, Assignment, Test

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Human Resource Development	21PCO3E1	EM: Career Planning SD: Executive Management Development Activities: Seminar, Assignment, Group Disussion
Business Case Analysis	21PCO312	SD: Preparation Of Cases SD: New Product Development Activities: Seminar, Assignment, Group Disussion
Accounting For Managerial Decision-Making	21PCO413	SD: Basis of Management Accounting EM: Financial statement analysis Activities: Seminar, Assignment, Group Disussion
Security Analysis and Portfolio Management	21PCO414	EM: Financial statement analysis EM: Investment media SD: Company Analysis Activities: Seminar, Assignment
Retail Management	21PCO415	SD: Emerging Trends in Retailing Activities: Seminar, Assignment, Group Disussion
Logistics Management/	21PCO4E1	SD: Non- Store Retailing (e- tailing) EM: Supply Chain Management SD: Logistical Package and Transportation Activities: Seminar, Assignment, Group Disussion
TAMIL PAPER -III TAMIL PAPER -IV	21UTL303	EM -இலக்கணம், இலக்கிய வரலாறு EN- உரரந ரை,செய்யுள் , SD - பரபைப்பாகம், தன் முயற்சி படிப்பு Activities: Seminar, Assignment
TAMIL PAPER -I, TAMIL PAPER -II	22UTL101	EM -இலக்கணம், இலக்கிய வரலாறு EN-

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
		உரரந ரை,செய்யுள், SD - பரபைப்பாக்கம், தன் முயற்சி படிப்பு Activities: Seminar, Assignment
Core Lab X: Advanced Applications in MS Excel Lab	20UCS624	Employability - Create an excel worksheet for entering data and apply the auto function in Excel - Create an excel worksheet to calculate Electricity Bill - Create an excel Worksheet to calculate Student Mark sheet. Create a macro and assign to an object or graphic or control - Create a macro by using Microsoft Visual Basic and run it - Create an excel worksheet to enter the given data and use sorting functions to get the required results
Core V:.NET Technologies	21UCS307	Employability: Operators and casts - Generics - Collections- BASE CLASS LIBRARIES AND DATA MANIPULATION - Introduction to web services- Architecture- Reflection
Core VI: Relational Database Management System	21UCS308	Employability: Relational Algebra– Dependency - Normalization - Databases-Client/Server - Naming rules and conventions- ropping, Renaming a Table– Arithmetic Operation- Grouping Data - Control Structures- Control Structures- Control Structures
Core VII: System Software and Operating System	21UCS309	Employability: Basic Loader Functions - Machine dependent– p- code compilers- Process States- Real Storage- Fixed partition multiprogramming Virtual Storage Management-Processor Management-Processor Management – Priorities – moving head disk storage - Need for disk scheduling - File descriptor

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Allied -3 : Computer Based Optimization Techniques	21UCS3A3	Employability: Origin and development of OR– Graphical Method – Big-M Method-Balanced Transportation problem- Row Minimum-Column Minimum – Routing problem- Network and Basic components –Time calculation in Network- Numbering -Model 1: Value of Money does not change with time-Minimax Principles-Saddle Point— Types of inventory-problem with no shortages and several production
Non-Major Elective Paper-I :Photoshop Lab	21UCS3N1	Skill Development: Image Menu using Photoshop -Reduce Picture Size using Photoshop, Transfer an object from one image to another and erase background using Photoshop Create India Map using Photoshop -Retouching photos using Photoshop Special Effects-Color in black and white image using Photoshop-Special Effects- Feathered Portraits (Soft fade) using Photoshop
Non-Major Elective Paper-I : Advanced Applications in MS Excel Lab	21UCS3N2	Skill Development: In a new worksheet, create a table and insert information of student details. Use features of Format Menu. Create and use data validation rules- Create, manage, and format pivot tables and pivot charts. Create and write complex formulas- Create and use IF statements. Create charts in excel- Create a data and using that data perform Match and index
Core VIII: Python Programming	21UCS412	Skill Development:Python -Logical Operators– continue statement – Definition -Built-in Functions- Additional File Methods - Working with Directories - Instance Methods - Character Classes - Compiling Regular Expressions.

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTREPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core IX: Open Source Technologies	21UCS413	Skill Development:Flow Control Functions-low-Loops-Code Blocks and Browser Output- Values from User-Defined Functions- Array-Related Constructs and Functions-Learning Basic SQL Commands-sing the SELECT Command-Using WHERE-Functions in MySQL-Using Date and Time- What Are Transactions?-Connecting to MySQL- Access Methods-Limiting -FLUSH Command-Using the SHOW Command.
Core X: Data Communication and Computer Networks	21UCS414	Employability: Communications and Networking-igital Signals-Parallel and Serial Communications-Types of Errors-Guided Media-Twisted Pair-Mesh Topology- Message switching-Networking protocols and OSI model-Protocols - Application Layer-Internet Layer-CSMA/CD- Metropolitan Area Network-Wide Area Network- Digital Network- Digital Network
Core Lab V: Programming Lab using Python	21UCS415	Employability: Write a Python Program that writes a series of random numbers to a file from 1 to n and display-Write a Python Program to convert list to dictionary, sort a dictionary,Merge two Dictionaries - Write a program to slice lists in Python - Write a Program to Illustrate Different Set Operations
Core Lab VI:Web Programming using Open Source Technologies	21UCS416	Skill Development
Core I: C Programming	22UCS101	Employability: Data types - Reading a character - IF, IF..ELSE Statements - One dimensional Arrays - Control Structures - Arguments with return values-Introduction - Declaring & Initializing String variables - Accessing - Defining and opening a file – Programs using Files and Command Line Arguments
Core II: Digital Computer fundamentals and organization	22UCS102	SD: Floating Point Representation – 10’s Complement – BCD - Boolean Logic Operations - AND Gate– Full Subtractor- PIPO – Asynchronous Data Transfer –Output Processor - Main Memory – Associative Mapping.

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Allied-1: Mathematics (Statistical Methods & Linear Algebra)	22UCS1A1	SD: Measure of Central Tendency - Correlation: Definition - Large Sample test: Standard error - Small sample test based on t - Variance Ratio Test - Permutation - Measurement: Classical, relative frequency – Inverse Matrices – The Properties of Determinants -Applications to Differential Equations
Core Lab I: Programming Lab in C	22UCS103	SD: C Program to find the greatest number among 'n' numbers- C Program to display a set of numbers in descending order- C Program to display names in alphabetical order.11. C Program to find the factorial numbers- C Program to check the set of numbers is odd or even- C Program for binary search- C Program to find a mean & median for given values- Program to count vowels and white spaces in a given sentence- C Program to illustrate the concept of subroutines.
Core III: C++ Programming	22UCS204	SD: Benefits of OOP –Beginning with C++- Cascading of I/O Operators - - Cascading of I/O Operators - Dynamic Initialization of Variables – Operator Precedence – Friend and Virtual Functions –C Structures Revisited –Private Member Functions –Friendly Functions – Dynamic Constructors –Overloading Unary Operators – Type Conversions.
Core IV: Data and File Structure	22UCS205	SD: Creation of Programs-Multiple stacks and queues-Singly Linked lists – Garbagecollection and Compaction - Basic Terminology –Terminology and Representations - Searching - Quick sort -Mode of Retrieval -Random Organizations - Linked
Allied -2:Discrete Mathematics Level-I	22UCS2A1	SD: Forms-PDNF-PCNF–Free and bound variables - Worked Examples - Aggregation operations - Representation of function-Hasse diagrams-Semigroups & monoids-Basic definitions-Graph –Degree of the vertex- Hamiltonian graphs

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core Lab II: Programming Lab in C++	22UCS206	SD: C++ Program to print Floyd's triangle- C++ program to generate Fibonacci series for 'n' numbers-C++ program to illustrate the concept of function overloading- C++ program to illustrate the concept of class and object, with return statement - C++ program to illustrate the concept of virtual function - C++ program to illustrate working with multiple file -Write a C++ program to display the binary tree -Write a C++ program to perform the linked list.
Internet of Things	21PCS311	SD: Introduction– Physical Design– Difference between IoT and M2M - Need for IoT Systems Management -Introduction – Design Methodology- M2M high-level ETSI Architecture- Domain model- Protocol Standardization for IoT-IoT Physical Devices and Endpoints-Other IoT Platforms-HomeAutomation- Chef Case Studies
Network Security & Cryptography	21PCS312	SD: Computer Security Concepts-A Model for NetworkSecurity- Techniques-Rotor-DES-Block Cipher Design Principles-Public Key Cryptography-Public Key Cryptography- Applications of Cryptographic-Digital Signature Algorithm-Authentication Protocol-System Security: Malicious software
Python Programming	21PCS313	SD: Python overview-Overview of OOP-Input from keyboard- The return statement-Traversing a list-Tuples – Creating tuples- Creating dictionary-Processing Records-Exception-Binary data formats-Filling In Missing Data-Arrays and Vectorized Computation
Digital Image Processing	21PCS314	SD: Fundamentals steps in DIP- Image sampling and Quantization-Histogram Processing-spatial enhancement methods-A model of the Image Degradation-Modeling the Degradation function-Point, Line and Edge Detection–Line Detection-watershed Transform



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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Programming Lab III: Internet of Things	21PCS315	SD: Design an IOT application using Arduino to measure temperature and humidity in digital/analog mode-Design an IOT application using Arduino to illustrate the working of IR sensor- Design an IOT application using Arduino to illustrate the working of PIR sensor-Design an IOT application using Arduino to illustrate the working of touch sensor with buzzer-Design an IOT application using Arduino to illustrate the working of LED in digital and analog mode
Programming Lab IV: Digital Image Processing using MATLAB	21PCS316	SD: Crop, Resize, Rotate an image-Crop an image using Simulink- Adjusting the contrast in color image using Simulink-Arithmetic Operations-Count Object in an image using Simulink-Performing Morphological Operations
Elective III: Artificial Intelligence & Machine Learning	21PCS3E1	SD: AI Problems-Constraint Satisfaction-Knowledge representation issues-Computable functions and predicates- Machine Learning Algorithms- – Nearest Neighbour Methods- Graphical Models
Project Work and Viva-Voce	21PCS4P2	SD: Web Based Development-Networking Projects-Web Security Projects
Design & Analysis of Algorithms	22PCS101	SD: Algorithm definition and specification-Basic traversal-Traveling salesman problem-Knapsack problem-Activity or Task Scheduling Problem
Data Mining using R	22PCS102	SD: Data Mining-Decision Trees and Random Forest-The k-Means Clustering-Outlier Detection with LOF-Time Series Clustering- - Interpreting Rules-Frequent Terms and Associations-Two-Mode Network
Advanced Operating System	22PCS103	SD: Why Advanced Operating Systems-Other Synchronization-Theoretical Foundation-Safety and Reliability- The requirements-PalmOS-Symbian- Linux-Linux File Systems-An example iOS 4 iphone camera application

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Advanced Java Programming	22PCS104	SD: JPanel-JFrame-JApplet-JSplitPane-JCheckBoxes-Jtable-Developing a Simple Bean-Bean Info Interface- Movement to Server Side-The Lifecycle of Servlet-A Basic Servlet-Definition for Servlet-Architecture of JSP-Scripting
Programming Lab I: Design & Analysis of Algorithms	22PCS105	SD: Sort a given set of elements using the Quick sort method and determine the time required to sort the elements-Obtain the Topological ordering of vertices in a digraph-Find Minimum Cost Spanning Tree of a undirected graph using Kruskal's algorithm-Check whether a given graph is connected or not using DFS method-Implement Travelling Sales Person problem using Dynamic programming
Elective I: Advanced Networks	22PCS1E1	SD: TCP/IP internet-Hardware addressing scheme-Mapping Internet Addresses-Protocol-Forwarding IP Datagram's-Reliable Stream Transport Service-TCP segment format-Network Visualization-TCP/IP Framework
Android Programming	22PCS206	SD: TCP/IP Framework-Exploring a simple Android Application-Introducing Resources and Backgrounds-Android Activity Life Cycle – Resources-UI Development in Android-Building a UI Completely in XML-Using Velocity Tracker-Basics of Drag and Drop-Performing Runtime Security Checks-
Cloud Computing	22PCS207	SD: Cloud computing at a glance-Elements of parallel computing-Anatomy of the Aneka-Cloud programming-Google App Engine- Scientific applications
Big Data Analytics	22PCS208	SD: Understanding Big Data-Big Data Analytics Lifecycle-HDFS High Availability-File System Shell Commands-Sorting Keys-Hadoop Cluster Modes-Apache Hive: Setting the Environment-Creating a table using CREATE TABLE-Truncating and Dropping a Table-Developing and Testing Pig Latin Scripts-Writing and Loading Store Function

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Advanced Database Management System	22PCS209	SD: Purpose of Database Systems-Database Users and Administrators-Keys-Schema Diagrams-The java way to access RDBMS-Advanced transaction processing-Recovery in DBMS-Advanced recovery-Distributed Database Management Systems-Business Intelligence and Data Warehouses- Security and authorization-Expert lectures
Programming Lab II: Android Programming	22PCS210	SD: Develop an application for Calculator-Develop an application for Converter-Develop an application for Text Clock and Analog Clock-Develop an application for Employee salary details using SQLite Database-Develop an application for Drag and Drop-Develop an application to display the various sensors available in an android device
Elective II: Object Oriented Analysis and Design with UML	22PCS2E3	SD: An overview of Object-oriented systems development – building high-quality software-Object-oriented methodologies-Jacobson methodologies-UML history-UML views, static view-use case-dependencies, constraints-instances-Model management- constraints-tagged view-modeling with tools
Non Major Elective I: Web Designing Lab	22PCS2N1	SD: HTML Tags-Forms-CSS Rules, CSS Grouping Style, XML using CSS-DTD for Book Information-Event Handling
Core I: Programming in C	22UDA101	Employability and Skill Development : C Programmes
Core II: Data Structures and Algorithms	22UDA102	Employability and Skill Development : Writing Algorithms
Allied-1: Mathematical Foundation for Data Science	22UDA1A1	Employability and Skill Development: Mathematics
Core Lab I: Programming Lab in C	22UDA103	Employability and Skill Development
Core III: Object Oriented Programming with Java	22UDA204	Employability and Skill Development
Core IV: Operating System	22UDA205	Employability and Skill Development
Allied 2 : Statistics and Probability	22UDA2A1	Employability and Skill Development
Core Lab II: Programming Lab in Java	22UDA206	Employability and Skill Development
Capstone Project - 1	22UDA207	Skill Development

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core - I : Programming In C	22UBC101	SD: Programming Skills: Type Conversions in Expressions, Decision making and Looping, String Handling Functions, Structures and Functions, Error handling during I/O Operations
Core – II : Data Structures	22UBC102	SD: Structural Representations : Stacks-Queues, Binary Trees, Depth first search - Breadth first search , The traveling salesperson problem.
Allied - I : Mathematics I - Computer Oriented Numerical And Statistical Methods	22UBC1A1	SD: Correlation, Integration and Interpolation: Newton Raphson Method, Gauss elimination, Newton Lagrange,s Method, Degree of Correlation, Regression Coefficients.
Core Lab -I : Programming In C	22UBC103	SD: Programming Skills: All the Programs
Core - III : Object Oriented Programming With C++	22UBC204	SD: Programming Skills: Object oriented Languages, Control Structures, Function overloading, Inheritance, C++ stream classes.
Core - IV : Digital Computer Fundamentals	22UBC205	EN: Digital Components: Digital logic gates, Adders, Flip flops, Registers, Counters, Input-Output Devices
Allied - II : Mathematics II – Mathematical Foundations Of Computer Applications	22UBC2A2	SD: Matrices and Probability: Cardinality, Hashing Functions, Graph, Adjoint of a square matrix, Baye's theorem.
Core Lab - II : Programming In C++	22UBC206	SD: Programming Skills: All the Programs
Core - V : Relational Database Management System	21UBC307	EM: Oracle , Entity-Relationship Model, The Relational Algebra, CODD's Rule, PL/SQL SD: Database Management System, Relationship Model, ORACLE SQL Functions, Concepts Of Error Handling.
Core - VI : Operating Systems	21UBC308	EM: Linux & Shell Programming ,Interrupts and Polling, Buffering, Storage Protection, DeadLock Preventions, DeadLock Avoidance, Blocking and Buffering, File Access Permissions, Condition Statements SD: Functioning of OS, Storage Organization, File Organization, File Splitting, Security

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core - VII : Organizational Behaviour	21UBC309	EM: Human Behaviour, Personality, Attitudes, Motivation, Organizational Conflicts, Leadership
Allied - III : Accountancy For Decision Making	21UBC3A3	SD: Problems in Accounting, Trial Balance, Purchase Returns and Sales Returns Book, FIFO-LIFO, Budgetary control
Core Lab - III : Relational Database Management System	21UBC310	EM: Oracle SD: Database Management System – All the programs
Core Lab - IV : Operating Systems	21UBC311	SD: OS Commands - All the programs
Core Lab - V : Graphics	21UBC312	EM: Front End SD: Tools Management- All the programs
Non Major Elective - I : Web Designing Lab	21UBC3N1	EM: Web Page Development- All the programs
Non Major Elective - I : Desktop Publishing Lab	21UBC3N2	EM: Desktop Publishing, EN: Filtering & Retouching- All the programs
Core - VIII : Web Technology	21UBC413	EM: .Net Technologies, Web Application and Web Servers, Validation Controls, Client Side Scripting, ADO.NET, Control Statements, PHP With MYSQL
Core - IX : Computer System Architecture	21UBC414	EM: Computer Organisation, Input Output Interrupts, Data Transfer and Manipulation, Register Configurations, Peripheral devices, Main Memory-Auxiliary Memory, Memory Management Hardware
Core - X : Software Engineering	21UBC415	EM: Software Development Process, Implementation, Post Implementation, Maintenance Behavioural Modeling, Functional Independence Design, Documentation, Agile Process Models, Agile Modeling
Allied - IV : Mathematics III - Computer Based Optimization Techniques	21UBC4A4	SD: Transportation and Assignment Problems, Simplex Method, Inventory Control, Transportation Problem, Sequencing Problems, CPM, PERT
Core Lab - VI: ASP.NET	21UBC416	EM: .Net Technologies - All the programs
Core Lab - VII : PHP Programming	21UBC417	SD: Programming Skills - All the programs

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**1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTREPRENEURSHIP/SKILL DEVELOPMENT**

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core Lab - VIII: Web Designing	21UBC418	EM: Web Page Development - All the programs
Non Major Elective - II : Photo Effects Lab/	21UBC4N21 /	SD: Photo Effects- All the programs
Non Major Elective – II: Animation Lab	21UBC4N22	SD: Animated Effects- All the programs
Core XI: Java Programming	20 UBC 519	SD: Programming Skills, Constant, Variables and Data types, Operators & Expression, Decision Making and Branching, Multiple Inheritance, ,Applets Programming
Core XII: Software Testing	20 UBC 520	EM: Selenium, Software Quality, Assurance(SQA), Quality Control(QC), Software Testing Life cycle, Test Plan SD: Testing Skills, Black Box Testing, White Box Testing, Levels Of Testing, Types Of Testing, Client/Server Testing, Verification & Validation, Automation Process, Two Models For Recording Testing, Six Main Stages Of Testing Process In Win runner
Networks	20 UBC 5E1	EM: Error detection and Error Correction, TCP/IP Reference Model, Data Compression SD: Networking Concepts, LAN, WAN, MAN, Wireless Transmission, Routing Algorithms, Encryption/Decryption
Grid Computing	20 UBC 5E2	SD: Grid Concepts, The Grid Computing Road Map, Grid Computing, Technological Open Grid Service Infrastructure
Storage Management	20 UBC 5E3	EM: Memory Management, Key Challenges In Managing Information Lifecycle, Implementation Of RA/D software, Hardware RA/D , Backup and Recovery
Current Trends And Technologies	20 UBC 5E4	EM: Latest Technologies, IOT Smart X Applications, The Concept Hashing, SAP, Big Data, Data Science, Block Chain
Lab -IX: Java Programming	20 UBC 521	SD: Programming Skills- All the programs
Lab - X: Software Testing	20 UBC 522	EM: Selenium SD: Testing Skills - All the programs

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Mobile Phone Services	20 UBC 5S1	EM: Service and Techniques - Scope and Opportunities for Mobile Repairing business, Assembling & disassembling , Antivirus Installation
Internet of Things	20 UBC 5S2	EM: Internet Concepts- IoT Enabling Technologies , IoT Physical Devices and Endpoints , Programming Raspberry Pi with Python.
Desktop Publishing Lab	20 UBC 5S3	EM: Desktop Publishing, EN: Filtering & Retouching - All the programs
Core XIII: Python Programming	20 UBC 623	SD: Programming Skills, Executing Python From The Command Line, Control Statements, Function, Object oriented Features, Error Handling
Core XIV: Information Security	20 UBC 624	EM: Cyber security & Cryptography, Security Mechanisms, Cryptography, Network Security EN: Security based infrastructures, Defensive programming and its Techniques SD: Security Features & Concepts, Security Trends, OSI Security Architecture, Security Attacks, Security Services, Software Security
Core XV: Mobile Application Development	20 UBC 625	EM: Developing Android Apps, Getting Started with Android Programming EN: Designing Interfaces with Views SD: SMS, Location based services, Data Persistence, Content Providers
Data Mining And Warehousing	20 UBC 6E5	EM: Mining Concepts, Major Issue In Data Mining, Redundancy and Correlation Analysis, Data Selection, 10 Golden Rules, Data Warehouse Implementation
Cloud Computing	20 UBC 6E6	EM: Cloud Security & Services, Services, Cloud Computing Technology, Google App Engine EN: Cloud Storage Providers, Amazon , Google, Microsoft, IBM
Lab -XI: Python Programming	20 UBC 626	SD: Programming Skills- All the programs

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Lab - XII: Mobile Application Development	20 UBC 627	EM: Developing Android Apps EN: Designing Interfaces SD: SMS, Location based services - All the programs
Corporate Systems	20 UBC 654	EM: Software Industry Domains, IT Governance and Management, Banking and Insurance, Wireless/Wire Line Networks, Textile Industry, Surveillance Camera
Multimedia and Animation	20 UBC 655	SD: Animation Effects, File Formats, Image Processing, Elements Of Audio System, Transmission Of Video Signals, Animation
Personality Development Skills	20 UBC 656	SD: Soft Skills- Enhancing Listening Skills, Stress Management, Soft Skills At Workspace- Employability Skills, Resume Writing, Group Discussion
CORE - I : Programming In C	22 UCT 101	EM : Mathematical functions - Arrays: One dimensional Arrays – Two Dimensional Arrays – simple Structures: Arrays within Structures–Union. - Reading string from terminal, Writing string to screen
CORE II: Digital Fundamentals And Computer Organization	22 UCT 102	SD: Logic Gates– Karnaugh Map and Minimization: Boolean Algebra – Gates – Inverter or NOT Gate – OR Gate – AND Gate – NOR Gate – NAND Gate – De Morgan's Theorems – Exclusive OR Gate – Exclusive NOR Gate - Reduced Instruction Set Computer (RISC).
ALLIED I: Mathematics - I: Mathematical Structures For Computer Science	22UCT1A1	SD: Rank of a Matrix , EigenValue problems, Mean (Individual Series), Median Discrete Series) and Mode (Continuous Series), Standard deviation



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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
CORE III: Java programming	22UCT 204	SD: Applications of OOP - WebBrowsers – Java Environment – Overview of Java Language – Simple Java Program – Java Program Structure - Interfaces – Defining Interfaces – Extending Interfaces – Implementing Interfaces – Accessing Interface variables – Packages – Java API Packages .Applet Lifecycle – Creating an Executable Applet – Concept of Streams – Stream Classes – Byte-Stream classes – Character Stream classes
Core IV – Data Structures	22UCT205	EM: Introduction – Array Operations - Number of elements in an array, representation of Arrays in memory, ApplicationsIntroduction – Array Operations - Number of elements in an array, representation of Arrays in memory, Applications- Graphs: Introduction – Definition and basic Terminologies. SD: Data structures and Algorithms - Stacks: Introduction – Stack Operations – Applications .Queues: Circular Queues – Other types of Queues – Applications - Sequential File Organizations – Indexed sequential File Organizations – DirectFile Organizations. Searching: Linear search– Binary search. Sorting: Merge sort and Quick sort.
Allied II – Mathematics II-Operations Research	22UCT2A2	SD: Canonical and Standard forms of LPP - Economical Order Quantity (EOQ) - Problems with n Jobs and 2 Machines- Problems with n Jobs and k Machines. - Components- Rules of Network Construction- Time calculation in Networks-CPM- PERT

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core V: Java Programming	21UCT307	SD: Overview of Java Language – Constants, Variables and Data Types - Operators and Expressions– Decision Making and Branching -Life Cycle of a Thread – Using Thread Methods – Thread Exceptions.Applets – Building Applet Code – Applet Life Cycle – Creating an Executable Applet –Applet Tag – Adding Applet to HTML File - Serialization – Character Stream Classes – Using Streams
Core VI: Database Management System	21UCT308	EM: Structure of a DBMS. Database design & ER diagrams – Entities attributes and entity sets – Relationships and Relationship sets - Logical database design; ER to relational introduction to views – Destroying / Altering Tables & Views. - The form of a basic SQL Query – UNION, INTERSECT and EXCEPT – Nested Queries – Aggregate operators – Null values –Complex integrity constraints in SQL - Normal forms – Properties of Decompositions – Normalization – Schema refinement in data base design - Database design for and ORDBMS – OODBMS – comparing RDBMS OODBMS and ORDBMS
Core VII: Operating Systems	21UCT309	SD: System Components- Operating System Services –System Calls – System Programs – System Structure - CPU Scheduling: Scheduling Criteria – Scheduling Algorithms. Process Synchronization: The Critical-Section Problem – Semaphores – Recovery from Deadlock – Storage Management: Swapping – Contiguous Memory allocation - Demand Paging –Page Replacement: FIFO Page Replacement – Optimal Page Replacement - Disk Structure – Disk Scheduling

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Allied - III : Software Engineering	21UCT3A3	SD: Process models: The waterfall model -Incremental process models - Evolutionary process models, Design process and Design quality - Design concepts - the design model SD: Requirements Engineering Tasks – Initiating the Requirements Engineering Process , – Object-Oriented Analysis- Scenario-Based Modeling - Testing Tactics: Black - Box and White-Box Testing - Basis path Testing – Control Structure Testing - Black-Box Testing.
Skill Based NON-MAJOR ELECTIVE I - HTML LAB	21UCT3N1	SD: 1. Create a HTML document using basic HTML tags.2. Create a HTML program with text formatting tags.3. Create a HTML program to set the background color.4. Create a link by using HTML tags.5. Create a HTML program to insert an image in a document.6. Create a HTML program to create a table.
Core VIII: Advanced Java Programming	21UCT412	SD: : JApplet- Icons and Labels – JText Fields – JButtons , Java Servlet - Practical applications for Java Servlets – Java Servlet Alternatives – Reasons to Use Java Servlets – Java Servlet Architecture. Servlet Basics – The Life Cycle of a Servlet , JSP – Conditions – Directives – Declarations- Implicit Variables – Scriptlets – Expressions, Enterprise Java Bean Technology , Servlets and JDBC– Two and Three-tier Database Access Models – JDBC Driver Types

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core IX: Linux And Shell Programming	21UCT413	<p>SD: Salient Features – Multiuser Capability, Multitasking Capability, Communication, Security, Portability , ps command – Background Process – The nohupCommand Killing a Process – Changing Process Priorities , command line arguments-logical operators &amp;&amp; and   -exit-if conditional-case-while statement- for set-shift-trap statement, System Administrator-Booting and shutting down-super user status (su) - security-user services - disk management (fsck)</p> <p>SD: Boot Block, The Super Block, The Inode Table, Data Blocks – Storage of Files – Disk Related Commands , Modes of Operations – Learning the Ropes – Adding Text, Delete Text, Overwriting Text, Quitting vi – Block Commands – Search Strings</p>
Core X: Data Communication And Networks	21UCT414	<p>EM: Analog and Digital Transmission Methods – Modes of Data Transmission and Multiplexing., Mesh, Star, Tree, Ring, Bus. Switching Basics- Circuit switching , (LAN), Metropolitan Area Networks (MAN) and Wide Area Networks (WAN) , TCP/IP Basics, TCP/IP Example, The concept of IP Address– IPV6, Domain Name System (DNS) – Electronic Mail (Email) – Introduction – E-Mail Transfer protocols – MIME – E-Mail Privacy</p>
Allied IV: Big Data Management	21UCT4A4	<p>EM: Defining Big Data -Building a Successful Big Data Management Architecture , Exploring the Big Data Stack- Layer 0: Redundant Physical Infrastructure- Layer 1:Security Infrastructure - Layer 2: Operational Databases, Understanding the Basics of Virtualization- Importance of virtualization of Big Data, Understanding the map Function- Adding the reduce Function, Characteristics of Big data analysis - Characteristics of Big data analysis framework.</p>

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Skill Based NON-MAJOR ELECTIVE II – OFFICE AUTOMATION LAB	21UCT4N1	SD: 1. Type the text, check spelling and grammar, bullets and numbering list items, align the text to left, right, justify and centre. 2. Prepare a job application letter enclosing your bio-data 3. Performing mail merge operation and preparing labels.7. Worksheet Manipulation for electricity bill preparation.9. An excel worksheet contains monthly Sales Details of five companies.
CORE XI: OPEN SOURCE TECHNOLOGIES (PHP and MYSQL)	20 UCT 517	SD: Creating your First PHP Script – Sample Applications, Writing Simple Conditional Statements – Writing More Complex Conditional Statements – Repeating Actions with Loops , Using Arrays with Forms – Working with Array Functions – Working with Dates and Times*.Reading Files – Writing Files – Processing Directories – Performing Other File and Directory Operations, Using PHP’s MySQLi Extension – Adding or Modifying Data – Handling Errors. Using PHP’s SQLite Extension , Data types and Data structures –*Control flow – Functions
CORE XII: INFORMATION SECURITY	20 UCT 518	EM: Plain Text and Cipher Text – Substitution Techniques - Transposition Techniques –, How DES Works?, The RSA Algorithm., – The Concept of Digital Certificate – Certificate Authority – Technical Details. The PKIX Model. , Algorithms used in S/MIME – Security in GSM –Security in 3G.(VPN): Introduction – Fire Walls: Introduction – Types of Firewalls*. Virtual Private Networks (VPN) – Intrusion.

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
ELECTIVE I : Cloud Computing	20 UCT 5E1	EM: Deployment – Replication – Monitoring – Software defined Networking – Network function virtualization , Apache Hadoop – MapReduce Job execution – Schedulers – Cluster setup., Reference Architectures – Design methodologies – Datastorage approaches., Benchmarking Tools – Deployment prototyping – Load Testing and Bottleneck Deduction – Hadoop Benchmarking, Health Care – Energy systems – Transportation systems – Manufacturing Industry – Education., Google Platform – Windows Azure – MapReduce – Packages
ELECTIVE I : Data Mining and Analytics	20 UCT 5E2	SD: Task primitives-Integration with database or warehouse- Major issues, *classification by Decision tree Induction – Bayesian classification-rule based classification , types of data in cluster analysis - categorization of major clustering methods - partitioning methods , multimedia data mining - text mining , Building a Data warehouse – Mapping the Data Warehouse to a Multiprocessor Architecture
ELECTIVE I : Artificial Intelligence	20 UCT 5E3	SD: Generate and test – Hill Climbing – Best-first Search – Problem Reduction – Constraint Satisfaction – *Mean-Ends Analysis.Issues in knowledge representation – Representing simple Facts in Logic – Representing Instance and Isa Relationships EM: Semantic Nets: Frames - ConceptualDependency - Game Playing – Overview– The minimax search procedure – Adding Alpha - Beta cutoffs, Arithmetic operators -Matching in Prolog – Backtracking – cuts – Recursion – Lists - Dynamic Databases - I/O Streams

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
CORE XIII: FRAMEWORK TECHNOLOGY	20 UCT 621	EM: Overview of the visual studio .NET IDE - Menu bar and Toolbar –Visual Studio.NET IDE windows., For Next – Select Case – do/loop while – do/loop until – exit key word – logical operators., pass – by-value vs. pass-by-reference – duration of identifiers – scope rules., labels, textboxes and buttons – group boxes and panels –checkboxes and radio buttons* – picture boxes – mouse event handling – keyboard event handling., Visual inheritance – User defined controls, programming with ADO.NET – extracting from a database – modifying a database, web controls – session tracking
ELECTIVE-II: Embedded Systems	20 UCT 6E4	EM: Embedded Hardware units and Devices in a System – Embedded Software in a system, Synchronous, Iso- Synchronous and Asynchronous communication , Parallel Device Ports - Timer and counting devices , Device drivers and Interrupts servicing mechanism: ISR concept - Device drivers – Interrupt servicing mechanism , Writing physical device-driving ISRs in a system- Parallel port device drivers , DFG Models – State Machine Programming Models for Event-controlled Program Flow – Modeling of Multiprocessor Systems, RTOS Task scheduling Models, Interrupt Latency and Response of the Tasks as Performance Metrics: Cooperative Scheduling model
ELECTIVE-II: E-Commerce	20UCT6E5	SD: Transition to e-commerce in India – E-transition challenges for Indian corporates, E-Advertising – Internet marketing trends , Digital token based e-payment systems – Classification of new payment systems – Electronic cash , CISCO – supply chain, Mobile Commerce in India, portals for Enterprise Resource Planning – ERP – Intranet Portals – HRM , Skimming – Copyright – Internet Gambling – Threats to children – Special Nature of Computer Ethics

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
ELECTIVE-II: Underwater Communication	20UCT6E6	SD: The pioneers – Civilian developments – The Basic Oceanography – Depth variations. , Underwater Acoustic Infrastructure – Offshore Terrestrial Station - Radar Networks – , Factors that affect the UWSN-Sensor Node Architecture-GIBS, VRAP, DABSAPT. , Marine Animal Acoustics: Marine mammal bioacoustics Fish bioacoustics – Acoustic Pollution of the Ocean
Elective – III: Multimedia Techniques	20UCT6E7	SD: Line-Drawing algorithms – Loading frame Buffer – Line function – Circle-Generating algorithms, The Viewing Pipeline – Viewing Co-ordinate Reference Frame – Window-to-Viewport Co-ordinate Transformation , Point Clipping – Line clipping: Cohen-Sutherland Line Clipping – Text Clipping., Image Types – Seeing Color – Color Models* – Basic Steps for Image Processing – Scanner – Digital Camera – Interface Standards , Microphone – Amplifier – Loudspeaker* – Digital Audio – MIDI , Video Editing – Video Editing Software. Animation: Types of Animation – Computer Assisted Animation – Creating Movement – Principles of Animation – Some Techniques of Animation
Elective – III: Mobile Computing	20UCT6E8	SD: Middleware and Gateways – Application and services - Security in mobile computing – * Standards , Architecture for mobile computing–Three-tier architecture, – RFID – WiMAX – Mobile IP – IPv6 – Java Card., PLMN Interfaces – GSM Addresses and Identifiers – Network Aspects in GSM – GSM Frequency allocations – Authentications and Security, GPRS and packet data network–Architecture–Network Operations– Data services – Applications - Limitations , IMT & CDMA 2000 – Applications on 3G., Wi-Fi vs. 3G



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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Elective – III: Internet of Things (IoT)	20UCT6E9	EM: From M2M to IoT, M2M towards IoT-the global context,, The international driven global value chain and global information monopolies. , An IoT architecture outline, standards considerations., Local and wide area networking, Data management, Business processes in IoT,, State of the art, Architecture Reference Model- Introduction, Deployment and Operational View, Other Relevant architectural viewsReference Model and architecture, IoT reference Model,
Computer System Architecture	22UIT102	Employability: Input – Output Organization Skill Development: Memory Organization
Lab. I - Programming in 'C'	22UIT103	Employability: All Contents Skill Development: All Contents
Mathematics – I (Statistics)	22UIT1A1	Skill Development: All contents
Object Oriented Programming with Java	22UIT204	Employability: All contents Skill Development: All contents
Data Structures	22UIT205	Employability: Linked List Skill Development: Binary Trees, Searching and Sorting
Lab. II - Programming in Java	22UIT206	Skill Development: All contents
Mathematics – II (Discrete Mathematics)	22UIT2A2	Skill Development: All contents
Operating Systems	21UIT307	Skill Development: Operating System-Functions and Structure, Distributed Processing, Deadlocks
Relational Database Management System	21UIT308	Employability: All contents Skill Development: All contents
Service Oriented Architecture	21UIT309	Entrepreneurship: Middleware, Web ServicesApplications
Lab. III – RDBMS	21UIT310	Employability: All Contents Skill Development: All Contents
Lab. IV – Web Designing (HTML, CSS, JavaScript &Angular)	21UIT311	Employability: All Contents Skill Development: All Contents

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Microprocessor and Assembly Language Programming	21UIT3A3	Skill Development: All contents
Skill Based Non-Major- I Social Networks	21UIT3N1	Skill Development: Design Issues Entrepreneurship: Types of services – Platforms- Building and Strengthening of social media.
Skill Based Non- Major I - Hardware & Networking	21UIT3N2	Employability: Input and Output Hardware Skill Development: Processors: Entrepreneurship: Communication Networks
Data Communication and Networks	21UIT412	Employability: Asynchronous Transfer Mode Skill Development: Network Topologies Entrepreneurship: Ways of Accessing the Internet
Advanced Java Programming	21UIT413	Employability: JDBC, Servlets Skill Development: Java Beans Entrepreneurship: AJAX
Visual Programming	21UIT414	Employability: Delegates, Events and Attributes, Exception handling Entrepreneurship: Windows applications-II, Database connectivity.
Lab. V – Programming in Advanced Java	21UIT415	Employability: Creating a menu, Program for swing Skill Development: Develop a Generic Servlet, Implement JDBC using Servlet, Develop J2EE program in JSP, Create a Javabean to create Juggler Bean.
Lab. VI - Visual Programming	21UIT416	Entrepreneurship: Applications using trackbar, panel, tree view, splitter, menu dialog boxes, ADO.Net Skill Development: Switch Statement, Method overloading, Constructor overloading, Implement Inheritance
Software Engineering	21UIT4A4	Employability: AGILE Development, Software Testing strategies, Testing conventional Applications Skill Development: Process Models

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Skill Based Non-Major- II (Data Analytics)	21UIT4N3	Employability: Career in analytics Skill Development: Tools and basic prerequisites
Skill Based Non-Major- II (Computer Security)	20UIT4N4	Employability: Cryptography Skill Development: Principles of security, Transposition Techniques: Rail fence-Simple Columnar - Encryption and Decryption.
Open Source Methodologies	20UIT517	Employability: The VIM Editor, Programming the Bourne Again Shell, X Window System and GUI Skill Development: The GNU/Linux File system
Information Security	20UIT518	Employability: Digital Certificates Skill Development: Cryptography, Symmetric key Algorithms, Asymmetric Key Algorithms Entrepreneurship: Electronic Money
Major Elective – I Cloud Computing	20UIT5E1	Employability: Cloud Application Design & security Skill Development: Cloud concepts and technologies Entrepreneurship: Python Basics, Python forCloud
Major Elective – I: Data Mining and Analytics	20UIT5E2	Employability: Spatial data mining Skill Development: Mining frequent patterns, association and correlations Entrepreneurship: Advanced Analytics platform-Implementation Skill Development: The GNU/Linux File system Skill Development: Cloud concepts and technologies Entrepreneurship: Python Basics, Python forCloud Skill Development: Mining frequent patterns,
Major Elective – II Digital Image Processing	20UIT5E3	Entrepreneurship: Color Image Processing, Image Compression
Lab. VII - Open Source Methodologies	20UIT519	Employability: All Contents Skill Development: All Contents

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Lab. VIII - Software Testing Tools	20UIT520	Employability: Create a simple android application, Doing a Google search using Intent, Sending a text message and showing Skill Development: To execute the File manipulation. Directory manipulation , Utility commands
Skill Based Major Elective - Lab. I Web Programming Lab. (Python)	20UIT5S1	Employability: All Contents Skill Development: All Contents
Skill Based Major Elective - Lab. I Web Programming Lab. ( PHP)	20UIT5S2	Employability: Creating a database Skill Development: Program to manipulate array
Computer Graphics	20UIT621	Employability: 3D Concepts, 3D Object Representations, Geometric Modeling and Transformations Skill Development: Output Primitives, Attributes of Output Primitives Entrepreneurship: Overview of Graphics Systems
Major Elective – II Embedded Systems	20UIT6E4	Employability: Real time operating systems Skill Development: Device drivers and Interrupts servicing mechanism, Programming concepts and embedded programming in C and C++
Major Elective – II E-commerce	20UIT6E5	Employability: E-Business Law and Taxation Skill Development: Selling to consumers online, Selling to Business Online Entrepreneurship: Online payment systems
Major Elective – II Artificial Intelligence	20UIT6E6	Employability: Prolog Skill Development: Knowledge Representation Entrepreneurship: Expert System
Major Elective – III Mobile Computing	20UIT6E7	Employability: GPRS, WAP, MMS, WIRELESS LAN Skill Development: GSM

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Major Elective – II Software Project Management	20UIT6E8	Employability: All Contents Entrepreneurship: All Contents
Major Elective – II Multimedia Techniques	20UIT6E9	Employability: Animation, Video Skill Development: Basic Animation Tools
Lab. IX : Graphics & Multimedia	20UIT622	Employability: 3D Transformations Skill Development: All Algorithms
Project	20UIT623	Employability: All Content Entrepreneurship: All Content Skill Development: All Content
Skill Based Major Elective Lab. II (CorelDraw)	20UIT6S3	Employability: All Content Entrepreneurship: All Content Skill Development: All Content
Skill Based Major Elective Lab. II (Photoshop)	20UIT6S4	Employability: All Content Entrepreneurship: All Content Skill Development: All Content
Major Elective – I: Data Mining and Analytics	20UIT5E2	Skill Development: Mining frequent patterns, association and correlations Entrepreneurship: Advanced Analytics platform-Implementation
Major Elective – II Digital Image Processing	20UIT5E3	Entrepreneurship: Color Image Processing, Image Compression
Lab. VII - Open Source Methodologies	20UIT519	Employability: All Contents Skill Development: All Contents
Lab. VIII - Software Testing Tools	20UIT520	Employability: Create a simple android application, Doing a Google search using Intent.Sending a text message and showing Skill Development: To execute the Filemanipulation. Directory manipulation , Utility commands

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Skill Based Major Elective - Lab.I Web Programming Lab. (Python)	20UIT5S1	Employability: All Contents Skill Development: All Contents
Skill Based Major Elective - Lab. I Web Programming Lab. ( PHP)	20UIT5S2	Employability: Creating a database Skill Development: Program to manipulate array
Computer Graphics	20UIT621	Entrepreneurship: Overview of Graphics Systems Employability: 3D Concepts, 3D Object Representations, Geometric Modeling and Transformations Skill Development: Output Primitives, Attributes of Output Primitives
Major Elective – II Embedded Systems	20UIT6E4	Employability: Real time operating systems Skill Development: Device drivers and Interrupts servicing mechanism, Programming concepts and embedded programming in C and C++
Major Elective – II E-commerce	20UIT6E5	Employability: E-Business Law and Taxation Skill Development: Selling to consumers online, Selling to Business Online Entrepreneurship: Online payment systems
Major Elective – II Artificial Intelligence	20UIT6E6	Employability: Prolog Skill Development: Knowledge Representation Entrepreneurship: Expert System
Major Elective – III Mobile Computing	20UIT6E7	Employability: GPRS, WAP, MMS, WIRELESS LAN Skill Development: GSM
Major Elective – II Software Project Management	20UIT6E8	Employability: All Contents Entrepreneurship: All Contents
<b>Major Elective – II Multimedia Techniques</b>	20UIT6E9	Employability: Animatio, Video Skill Development: Basic Animation Tools
Lab. IX : Graphics & Multimedia	20UIT622	Employability: 3D Transformations Skill Development: All Algorithms

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**1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT**

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Project	20UIT623	Employability: All Content Entrepreneurship: All Content Skill Development: All Content
Skill Based Major Elective Lab. II (CorelDraw)	20UIT6S3	Employability: All Content Entrepreneurship: All Content Skill Development: All Content
Skill Based Major Elective Lab. II (Photoshop)	20UIT6S4	Employability: All Content Entrepreneurship: All Content Skill Development: All Content
Principles of Business Management & and Business Organization	22 UBM 101	Employability: Line-Staff Entrepreneurship: All Content Skill Development: Managerial Skills
Business Communication	22 UBM 102	Employability: Effectiveness of oral communication Entrepreneurship: Communication through letters Skill Development:- Barriers to effective Communication- Ways to overcome the barriers
Mathematical Techniques-I	22 UBM 1A1	Employability: Primary and Secondary Data Skill Development:KarlPearson’s of Correlation
Organizational Behavior	22 UBM 203	Employability: Development of personality Entrepreneurship: Brain storming Skill Development: Leadershipstylesand skill
Financial Accounting	22 UBM 204	Employability: Profit and loss account-Balance Sheet Entrepreneurship:Preparation of accounts from Incomplete records Skill Development:Rectification of errors-

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Business Economics	22 UBM 2A2	Employability: Scope of Business Economics Entrepreneurship: Production function Skill Development: Market forms
Taxation	21 UBM 305	Employability: Income from salary Entrepreneurship: Profits and gains of business or profession Skill Development: Residential status of persons
Financial Management	21 UBM 306	Employability: Preparation of various methods of capital budgeting. Entrepreneurship: Sources of Finance Skill Development: Cash Management
Marketing Management	21UBM 307	Employability: Advertising Entrepreneurship: Sales forecasting
Mercantile Law	21 UBM 308	Skill Development: Application–Allotment of shares and Debentures
Mathematical Techniques - II	21 UBM 3A3	Employability: Obtaining initial basic feasible solution Entrepreneurship: Decision tree and theories. Skill Development: Simple problems in simplex method
<b>NME:</b> Intellectual Property Rights	21 UBM 3N1/	Entrepreneurship: Management Guidelines. Skill Development: Procedure for Registration
Rural Consumer Behavior	21UBM 3N2	Entrepreneurship: Needs and wants of consumer behavior Skill Development: Trends in rural marketing
Personnel Management & Industrial Relations	21UBM 409	Employability: Recruitment and Selection Entrepreneurship: Factories Act-1948 Skill Development: Job Evaluation
Production & Materials Management.	21UBM 410	Entrepreneurship: Production Planning Skill Development: Lead Time Analysis



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**1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTREPRENEURSHIP/SKILL DEVELOPMENT**

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Cost & Management Accounting	21UBM 411	Employability: Preparation of cost sheet Entrepreneurship: budgetary control Skill Development: Preparation of funds flow Statement –Cash flow statement
Banking Theory Law & Practice	21UBM 412	Employability: Relationship between banker and customer Entrepreneurship:Role of banking in development of micro, small and medium enterprises. Skill Development: Principles of sound lending
Management Information system	21UBM 4A4	Employability: Information processing and control Entrepreneurship: Organization function. Skill Development: Methodsfordecidingamongalternatives
<b>NME:</b> Retail Management/	21UBM 4N3/	Employability: Trends in Retailing. Entrepreneurship: Business Models in Retail Skill Development: Factors Affecting the success of a Global RetailingStrategy
Supply Chain Management	21UBM 4N4	Employability: Outsourcing in SCM Entrepreneurship: Purchasing and Supply Management Skill Development: Parameters ofchoosing suppliers.
Entrepreneurship & Project Management	20UBM513	Employability: Project manager Entrepreneurship:Entrepreneurship development programme Skill Development:Business Plan Preparation
Research Methods for Management	20UBM514	Entrepreneurship: Research Process Skill Development:-Chi-Squaretest
Insurance Principles & Practices	20UBM515	Employability: Insurance Regulatory Development Authority(IRDA) Entrepreneurship: Deposits and Credit Insurance Skillk Development:Claims and recovery

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**1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTREPRENEURSHIP/SKILL DEVELOPMENT**

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
International Business & Export Management	20UBM516	Employability: NTERNATIONAL MARKETING Entrepreneurship: Export financing Skill Development: Export promotion measures
PC Software(MS Office) Theory	20UBM517	Employability: MSOffice Basics Entrepreneurship: PowerPoint basics
PC Software(MS Office) Practical	20UBM518	Skill Development: All Exercises
<b>SBE:</b> (Major)Services Marketing/	20UBM551	Employability: KeyServices of Marketing. Entrepreneurship:Services Marketing Skill Development:Marketing mix
Concepts of Rural Marketing Management	20UBM 552	Employability: Marketing mix in rural areas Entrepreneurship: Rural market –Opportunities Skill Development:Diagnosis of the failure
Investment and Portfolio Management	20UBM619	Employability: Share trading Entrepreneurship: Investment outlets Skill Development: Portfolio analysis
Consumer Behavior	20UBM620	Employability: Advertising and sales promotion Entrepreneurship: Application of consumer research and market segmentation Skill Development: LearningandAttitudesofconsumers.
Advertising and Sales Promotion	20UBM621	Employability: Salesforce Management-Importance Entrepreneurship: Advertising agencies Skill Development: Advertising lay out
Business Environment	20UBM622	Employability: Business environment in India Entrepreneurship: Global Business Environment Skill Development: Environmental Analysis

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**1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT**

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Project Work and Viva-Voce	20UBM623	Employability: Advertising and sales promotion Entrepreneurship: Application of consumer research and market segmentation Skill Development: Learning and Attitudes of consumers.
Internet and E-Commerce & Information Security	20UBM624	Employability: Internet Advertising. Entrepreneurship: E-Commerce Skill Development: Authentication
HTML Practical	20UBM6254	Employability: All programmes
SBE: (Major) Logistics Management/	20UBM6S3	Employability: Service Choices Entrepreneurship: Marketing Logistics Systems Skill Development: The Storage and Handling System
Agricultural Marketing Management	20UBM6S4	Employability: Livestock and diary Entrepreneurship: Promotion and distribution of agricultural products Skill Development: Determinants of successful agricultural marketing
TAMIL PAPER I	22UTL101	Emp: இலக்கிய வரலாறு Emp: இலக்கணம் SD: ஒளியின் அரைப்பு SD: உ.வவ.஁ா.வின் பதிப்பாளுரம் SD: இலக்கியத்தில் சபாருளியல் சிந்தரனகள்
TAMIL PAPER II	22UTL202	Emp: இலக்கிய வரலாறு Emp: இலக்கணம் Emp: காலம் ரகக்குள் வள சவற்றி ரபக்குள் வள Emp: வபாண்டித்வதாவு க்கான தகவல்களும் தரவுகளும்
TAMIL PAPER III	22UTL303	Emp: இலக்கிய வரலாறு

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
		Emp: இலக்கணம்
TAMIL PAPER IV	22UTL404	Emp: இலக்கணம்
		Emp: இலக்கிய வரலாறு
		SD: கவித்சதாரக
		SD: இனியரவ நாற்பது
		SD: திருக்குறள் காண்டும் ஆளுமத்திறன்
		SD: கவிஞர் சிற்பியின் கவிரத சமாழிசபயாப் ப்புத்திறன்
Kaapiyangal	20UTM509	Employability - Seminar,drama
illakanam Thandi yappau	20UTM510	Employability - Seminar , Quiz
Itthaliyal	20UTM5E2	Employability - Seminar, News writing,News paper cutting
Nattupuraviyal	20UTM615	Employability - Craft work,folkdance
Sutrulaviyal	20UTM6E6	Entrepreneurship - Went to tour, collected tour place details
Nanool Sol	21UTM305	Employability - Seminar,Quiz
Kaaniyum aluvalaka payanpadum	21UTM3A3	Employability- working in computers,seminar
Payanpattu tamil	21UTM3N2	Skill devolpment - Seminar, Assignment
Porul Illakanam	21UTM407	Employability- Seminar,Quiz
Padaipu illakiyam	21UTM408	Employability - Writing Poem, drama,story writing
Kovilkalaikalal	21UTM4A5	Employability- visiting temple, seminar
Potti thervu tamil	21UTM4N3	Employability - Giving questions, Seminar
Nanool Eluthu	22UTM203	Employability- Seminar,Quiz
Tamil illakiya varalau	22UTM2A2	Employability- Seminar,Quiz
Ikkala illakiyam	22PTM101	Employability-Writing Poem, drama,story writing
Tholkappiyam eluthu	22PTM102	Employability-Seminar,Quiz
Thakaval Thodarpiyal	22PTM103	Employability - wrting articles, Seminar
Tholkappaiyam Chol	22PTM206	Employability -Seminar,Quiz

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**1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT**

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Tholkappiyam Porul	21PTM311	Employability-Seminar,Quiz
Cyber security internet & web designing	21PTM312	Employability- working in computers,seminar
Ayiviyal nerimuraikal	21PTM3E2	Employability-Seminar,Quiz
Pannithervu tamil	21PTM4E3	Employability- Giving questions, Seminar
The Twentieth Century British Literature-II	21 PEL 310	Activity: Performance of Play, Assignment SD: POETRY, DRAMA, PROSE,SHORT STORIES, FICTION
American Literature- II	21 PEL 311	Activity: Quiz, Assignment SD: POETRY, DRAMA, PROSE, FICTION, SHORT FICTION
Post Colonial Literature	21 PEL 312	Activity: Seminar, Assignment SD: POETRY, PROSE, SHORT STORIES, DRAMA, FICTION
Literary Theory and Criticism	21 PEL 313	Activity: Group Discussion, Assignment SD: All Literary theories and Criticism (Unit I to Unit V)
Journalism and Mass Communication (OR) Media and Communication Studies	21 PEL 3E3	Activity: Seminar, Assignment SD: Theory of Communication - Types of Communication - Communication Theories - Mass Communication and Culture - Barriers of Communication EM: TYPES OF MASS MEDIA , Television Journalism, Content Writing, Compering, Interviewing EN:Tele-communication and the Information Technology, Information Revolution, Uses and Effects of Mass Media, Mass Communication in Society
World Drama	21 PEL 414	Activity: Performance on Play, Assignment SD : Unit I to Unit V
World Fiction	21 PEL 415	Activity: Performance on Play, Assignment SD : Unit I to Unit V

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**1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTREPRENEURSHIP/SKILL DEVELOPMENT**

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Applications of Information Technology in Language and Literature and Cyber Security (OR) Office Automation Tools and Webpage Designing	21 PEL 4E5	Activity: Seminar, Assignment and Quiz EM: Windows Operating systems, MS – WORD, MS – EXCEL, POWER POINT PRESENTATION,
Programming Laboratory for Language and Literature (OR) Programming Laboratory in MS Office and HTML	21 PEL 4E7	Activity: Practical, Group Discussion SD: HTML, Forms, Network Security, CYBER SECURITY
Project + Viva	21 PEL 4P1	Activity: Writing Research Articles and Group Discussion EM & SD: European and Non European Literatures, Fiction, Poetry, Drama, Short stories, Memoir, Prose, Language Study-ELT Activities: Working on project
British Literature from the Age of Chaucer to Pre-Romantic Age	22 PEL 101	Activity: Performance of Play, Assignment SD: POETRY, DRAMA, PROSE,SHORT STORIES, FICTION
British Literature from Romantic Age to Victorian Age	22 PEL 102	Activity: Performance of Play, Assignment SD: POETRY, DRAMA, PROSE,SHORT STORIES, FICTION
Shakespeare	22 PEL 103	Activity: Performance of Plays, Assignment SD: All plays of Shakespeare
Modern English Grammar and Usage	22 PEL 104	Activity: Quiz , Assignment SD: Grammatical Skills
English Phonetics and Phonology	22 PEL 105	Activity: Seminar, Assignment SD: Phonetic transcription
The Twentieth Century British Literature- I	22 PEL 206	Activity: Group Discussion, Assignment SD: POETRY, DRAMA, PROSE,SHORT STORIES, FICTION
American Literature- I	22 PEL 207	Activity: Performance on Play, Assignment SD: POETRY, DRAMA, PROSE,SHORT STORIES, FICTION
Indian Writing in English	22 PEL 208	Activity: Performance on Play, Assignment, Seminar SD: POETRY, DRAMA, PROSE,SHORT STORIES, FICTION

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
English Language Teaching- Approaches and Methods	22 PEL 209	Activity: Discussions , Q&A, Assignment EM: The Nature of Approaches and Methods in Language Teaching, The Oral Approaches,
Research Methodology(OR) Methodology for Research Writing	22 PEL 2E1	Activity: Writing Research Articles, Project SD:RESEARCH AND WRITING,
Core – 1Plant Diversity I (Phycology, Mycology, Lichenology and Bryology)	22PBY101	EM:Understanding characters of lower diversity for cultivation sustainable growth of species
Core – 2Plant Diversity II (Pteridophytes, Gymnosperms and Palaeobotany)	22PBY102	EM: To be clear with evolutionary trends for better understanding of biodiversity
Core 3 Applied Microbiology and Plant Pathology	22PBY103	EM: etiology of the plant diseases and control measures
Core 4 Laboratory course 1	22PBY104	EM:Cultivation practice of phytoplanktons, macroalgae, Microbes and morphological anatomical features
Ecology and Phytogeography	22PBY1E1	EN: The paper deals with distribution, energy transfer, assessing the environment using plant communities, importance of plants towards ecological balance.
Ethno Botany	22PBY1E2	EN: Importance of various crops, mode of cultivation practice of various important crop species
Seed Technology	22PBY1E3	EN: Seed characters and features, processing, storage and seed certification
Plants in Tamil Culture	22PBY1N1	SD: Deals with plants used in earlier literature
Core - 5 Plant Anatomy and Reproductive Biology	22PBY205	SD: Anatomical features of angiosperms their architecture, evolution and process of reproduction
Core - 6 Plant physiology	22PBY206	SD: Behaviour and response of plant on various stimuli internal and external plant level physiology
Core – 7Cytology, Genetics and Plant Breeding	22PBY207	EM: Mainly the course deals with cell features, crop improvement, process of production of new varieties with good qualities

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**1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT**

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core - 8 Laboratory course-II	22PBY208	EN: The paper deals with anatomical features cytological details and genetical influence towards crop improvement
Horticulture and Landscaping	22PBY2E4	SD: Deals with economically important crops and land scaping methods
IPR and Bioethics	22PBY2E5	SD:The course deals with importance of IPR and its various features, traditional knowledge, legal issues regarding materials and products
Organic farming	22PBY2E6	SD:The course focus on organic farming practices and methodsto grow crops organically, their beneficial effects on health
Industrial Training / Internship	22PBY3INT	EM:It involves industrial exposure methods, knowledge on prerequisite qualities for fetching jobs
Core - 9 Taxonomy of Angiosperms	21PBY309	SD: The main focus is to identify the plants perfectly using classical and recent methods. The main focus for the pharma industry where the identification of the plants is most important thing
Core -10 Plant Biochemistry and Biophysics	21PBY310	EN: The paper focuses on biochemical cycles and its kinetics, details on biochemical products and its importance
Core -11 Plant Biotechnology and Nanobiology	21PBY311	SD:The paper focus on applied aspects of biological science which gives wide knowledge on various tools used in the biological sciences and its applications in industry.
Core – 12Laboratory course - III	21PBY312	EN: The paper deals with identification of plants plants specimens, plant components and estimation of various important plant components
Elective-3Forestry and Wood science /	21PBY3E7	EM: The course which deals with importance, types, silviculture, timber values , methods to conserve the forest, importance of value added products, laws and commercial forest products



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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Herbal Technology/	21PBY3E8	SD: The course focuses the importance of herbs and isolation of various drugs without disturbing the natural population. The course gives aspects on cultivation and propagation of drugs.
Pharmacognosy	21PBY3E9	SD: The course deals with production of plant based qualitydrugs, adulteration for the welfare of human
Core - 13 Research Methodology	21PBY413	EM: The course focus on statistical aspects, interpreting the data and analyzing the data while preparing thesis
Core - 14 Bioinformatics and Cyber Security	21PBY414	SD: Students are being taught with basic computational biology tools and their applications. Hence, the students will enrich their ICT skill to suit themselves in the job market.
Core – 15 Laboratory course -V	21PBY415	EM: The course deals with applied aspects on bioinformatics protein modeling using drug online softwares
Introduction to Social Work	22USW101	Skill : Basics in Social Work: Basic Concepts Social Work: Meaning, Definitions, Objectives And Functions – Social Welfare: Meaning, Scope and Objectives - Social Service: Meaning, Difference Between Social Service and Social Work- Concept Of Social Reform-Social Action –Social Security. Methods and Field of Social Work: Methods and Fields of social work- Casework, Group work, Community Organization, Social Action, Social Work Research and Social Welfare Administration. Fields of social work: Labour welfare, Medical and Psychiatric social work, community development, correctional social work, Youth welfare and school social work.

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Man and Society	22USW102	Skill : Concept of Socialization And Culture: Socialization: concept, Importance and Functions. Agencies of Socialization. Culture: concept, Characteristics- Influence on Individuals, Cultural Conflict, Impact of Cultural Change – Cultural lag. To Know the Concept of Welfare State: Welfare state: Concept, need, characteristics-India as a welfare state- Social Change: Definition, concept, types and theories of social change in India. Gender roles and inequalities.
Indian Social Problems	22USW1A1	Skill : Social Problem – Concept – Meaning – Characteristics – General Causes-Effects-Remedial measures- Social organization- Social disorganization -Family disorganization- Individual disorganization-Deviant Behavior-meaning-types. Rural social problems-Concept-Meaning-Illiteracy-Poverty - Unemployment-Untouchability-Exploitation and Bonded Labour-Caste dominance and Communal riots.
Methods of Social Work	22USW203	Skill : Social Case Work: Definition, objectives, scope, principles and process (study, Diagnosis and intervention) - roles of a caseworker. Social Group Work: Definition, objectives and scope, types of groups and group processes –Group work process - roles of a group worker. Community Organization: Definition, objectives and scope, principles and processes-roles of a community organizer.

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTREPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Human Growth and Development	22USW204	Skill : Stages and Development of Human: Meaning of Growth and Development, Developmental tasks, Developmental Stages: Conception, pregnancy and Delivery. Infancy : Major adjustments of Infancy Babyhood : Emotional behavior in baby hood- Hazards of Baby hood Early childhood : Emotional and social behavior Late childhood: Emotional and social behavior Puberty: Causes and age of puberty-body changes at puberty- effects of puberty changes: Developmental tasks of Adolescence Early And Late Adulthood: Developmental task of early adulthood-Vocational, marital, social adjustments- late adulthood- Adjustments to parenthood Middle Age: Developmental tasks of middle age –social adjustment-adjustment to physical changes Vocational and marital hazards of middle age. Old age: Characteristics of old age–developmental tasks of old age, adjustments to retirement-adjustment -To loss of spouse– Life hazards of old age.
Women and Development	22USW2A2	Skill : Women and their Roles: Women and development – their roles in family – community and society – status of women –Values with reference to Indian women. Women and family: Women and family–Family structures– Women’s roles in decision-making in the family.
Human Rights Social Justice and Social Work	22USW305	Skill : Human Rights: Human rights –Meaning, concept - classification of rights- Moral rights – Legal rights- Civil rights- political rights-Human rights and Issues of social justice..

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTREPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Counseling and Guidance	22USW306	<p>Employability :Concept of Counselling: Meaning and definition of the term counselling–Goals and objectives of counseling – scope of counselling.</p> <p>Differences with Related Terms: Counselling and Guidance– Counselling and Psychotherapy Counselling and advice – Counselling and Direction – Counselling and assistance – Counselling as profession.</p> <p>Common Techniques for counselling: Psycho analytical model and behavior modification and counselling. Influential Factors of Counselling: Factors influencing Counselling relationship; namely, social, emotional, religion, sex, age, etc–Basic principles and processes of Counselling.</p> <p>Basic Requirements for Counselling: Counselling with different Groups-skills ,roles &amp; Functions of the counselor</p>
Computer Office Automation	22USW3A3	<p>Entrepreneurship : Application of Computer in social work Profession: Introduction to computer–definition, History of computer, generations, types of computers. Need and importance of computers in Social Work Profession. Software – system software, application software, operating software and programming languages.</p>
Gender Sensitization and Gender Equality	22USW3N1	<p>Skill : Gender based violence: Different Forms of violence against women - Causes of violence against women, impact of violence against women. Sexual abuse: Sexual harassment - Types of abuse – Physical, psychological, sexual. Women empowerment: Need for women empowerment - Indicators of women empowerment - Facilitating and constraining factors of empowerment - Equality Vs Equity issues. Rights &amp; Acts supporting women.</p>

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Social Work Research and Statistics	22USW407	Employability : Introduction to Research & Basic Concepts: Social Work research: meaning, objectives, functions, types and limitations – identification of the area for research: selection and formulation of problems – formulation of assumptions – hypothesis: meaning, characteristics of a good hypothesis, sources and types of hypothesis – review of literature.
Field Work Practicum – I	22USW4F1	Skill : Employability : Entrepreneurship : • Students will apply their social work knowledge in the field work • They will practice their professional skills and techniques • They can successfully start their carrier as social worker in an organization

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Social Work with Persons with Disability	22USW511	<p>Employability : Introduction to the Concept of Disability: Definition / Meaning of impairment, disability, handicap, exceptional child and differently abled, Classification of Disabilities, advantages, disadvantages, Misconceptions and attitudes towards, the disabled.—Labeling—Changing concept of disability</p> <p>Sensory Impairments: Definition, Identification, Classification, Characteristics of Visual Impairment, Causes and Prevention of Visual Impairment. Definitions, Identification, Classification, Characteristics of hearing impairment, Causes and Prevention of Hearing Impairment. Developmental Disabilities: Definitions, Misconceptions, Identification and Characteristics, Causes, and Classification of Mental Retardation. Definitions, Misconceptions, Causes, Identification and Characteristics of Autism and ADHD. Loco Motors Disabilities: Definitions, causes, classification of Physical Disabilities. Misconceptions, Identification and Characteristics of Physical Disabilities Rehabilitation of Persons with Disabilities Legal Provisions: PWD Act, Rehabilitation Council of India (RCI) Role of government (concessions, schemes) NGO, INGO, and Social Workers for persons with disability.</p>
Field Work Practicum - II	22USW5F2	<p>Skill : Employability : Entrepreneurship : Students will apply their social work knowledge in the field work</p> <ul style="list-style-type: none"> <li>• They will practice their professional skills and techniques</li> <li>• They can successfully start their carrier as social worker in an organization</li> </ul>

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**1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT**

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Community Development	22USW5E1	Skill : Rural Community Development: Rural community development - concept, principles, need-programmes: IRDP, ITDP, TRYSEM, Swarnajayanthi Gram Swarozgar Yojana, Rural Housing Schemes, NRCP, Rural Sanitation Programme, Watershed Development, role of NIRD and SIRD. Employability : Local Self Government: Local self-government- Local self-government in ancient India, during Mugal and British period. Panchayat Raj system, Role and function of village president, chairman, BDO. Constitutional (73rd) amendment, state legislation strengths and weakness.
Urban Community Development	22USW5E2	Skill Urban Development: Urban Development Administration National, state and local levels; Urban services and urban deficiencies; Structure and functions of urban development agencies. Urban Development Programmes: Urban Basic Services Programmes (UBSP) - Tamil Nadu Urban Development Project (TNUP) –National Slum Development Programme(NSDP) - Integrated Housing Slum Development Programme (IHSDP) - Jawaharlal Nehru National Urban Renewal Mission Scheme (JUNURUM) -Prime Minister’s Integrated Urban Poverty Eradication Programme (PMIUPES) – Swarna Jayanti Shahari Rozhar Yojana (SJSRY) - Nehru Rozgar Yojana (NRY) - Tamil Nadu Slum Clearance programme - Urban Health and Sanitation programme.

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Rural Community Development	22USW5E3	<p>Skill :Panchayat Raj: Concept, Objectives, Local Self Government in ancient India-Moguls Period and British Period Development of Panchayat Raj after Independence: Constitutional Provisions, Balwant Roy Metha Committee, Ashok Metha Committee - Main Features of Panchayat Raj Legislation (73rd Amendment)- Structure of Panchayat Raj System: Village Panchayat, Block Panchayat, District Panchayat</p> <p>- Functions and duties of Panchayat Raj Institution ( PRI) Civic amenities, Social welfare activities and Development work, Resources and Revenues of Panchayat – State Control over Panchayat Raj Institution – Role of CAPART and NABARD in Rural Development – Salient features of Rural Development Programmes: (Central and State Government Programme). SGSY (Swarnajayanti Gram Swarzar Yojana),SGRY (Sampoorna Gram Rojan Yojana), PMAY (Prathan Mantri Awaas Yojana), PMSG (Prime Minister Gramiya Sutak Yojana), IWDP (Integrated Watershed Development Programme), Housing (Up gradation of Hutcha Houses) GTT (Gram Thaniraivu Thittam) , THADCO Schemes (Tamilnadu Housing and Adi Dravida Development Corporation), MGNREGS (Mahatma Gandhi National Rural Employment Guarantee Scheme), SFDA (Small Farmer’s Development Agency), MFDA (Marginal Farmer’s Development Agency), ICDS (Integrated Child Development Scheme) and Tamilnadu Government SocialWelfare Programme</p>



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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Welfare of Weaker Section	22USW5S1	Skill : Bonded Labour: Bonded Labour: Definition, Meaning, Features, Causes, And Measures taken by the Government to abolish it - Differently abled: Types, Welfare and Rehabilitative Measures taken by the government and NGOs– Role of Social Workers in the Welfare of Weaker Sections. Status of Women and Empowerment: Status of Women and Empowerment: Status of Women in Ancient Age – Medieval Age – Modern Age – Problems of Women in Modern India – Development and Welfare of Women – Empowerment of Women -Impact of Globalization of Women Development. Employability : Scheduled Castes And Scheduled Tribes: Scheduled Caste: Definition–Ecological Distribution – Demographic, Social and Economic Characteristics of Scheduled Castes – Problems of the Scheduled Castes. Scheduled Tribes: Definition, Characteristics, and Problems of Scheduled Tribes – Types of Tribal Movements –Causes of Tribal Unrest–Approaches to solve Tribal Problems–Welfare Programmes of the Government and their beneficiaries and failures.
Corporate Social Responsibility	22USW613	Skill : Marketing tools: Types of advertising, merchandising, give a ways, competitions, promotions, website and text messaging - Media tools: Media invitations, photo-calls, press releases, TV opportunities, radio interviews - Promotional tools: Flyers, Posters, Invitations, Website, Newsletters, Magazines, Blogs, Tweets, Specialist areas: Celebrity endorsement, Ministerial/Presidential visits, security-personal. Case Study: L&T,ACC,INFOSYS, Bharat petroleum CORPORATION LTD, Maruti Suzuki India Ltd. Hindustan Unilever Ltd, Reliance Industries Ltd, GAIL (India) Ltd.

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**1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT**

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Field Work Practicum - III	22USW6F3	Skill : Employability : Entrepreneurship :Students will apply their social work knowledge in the field work They will practice their professional skills and techniques They can successfully start their carrier as social worker in an organization
Industrial Relations	22USW6E6	Employability : Concepts of Industrial Relations - Definition-concept-need, importance, scope, objectives of industrial relations-Factors influencing industrial relations. Code of Ethics and Discipline - Ethical codes of industrial relations concept code of discipline in industry, causes and effects of industrial conflicts .
Mental Health	22USW6E7	Skill : Introduction to Psychiatry: Definition, Concept of Mental Health: Characteristics of Mentally healthy individual I: Magnitude of mental Health problems in India-Changing trends in mental health Signs and Symptoms of Disorders

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Psychiatric Social Work	22USW6E8	Entrepreneurship :Psychiatric social work: Concept, Definition, History and Scope in India and in the West; Psychiatric assessment - Psychiatric interview Psychosocial and multidimensional assessment of Mental Disorders -Mental Health problems among marginalized and vulnerable groups in urban, rural and tribal. Psychological methods / treatment: Psychotherapy and types – -Group therapy – Yoga – Meditation – Occupational and Recreational therapies. Chemotherapy. Anti psychotic drugs, Anti depressant – ECT – Psychosurgery. Therapy: Contemporary Theories and Therapy – Client Centered Therapy – Reality therapy – Gestalt therapy – Rational Emotive Behavior Therapy – Cognitive Behavioral Therapy (CBT)-Transactional analysis.
Social Case Work	22PSW102	Skill :Social Casework Models & Therapies: Psycho – social, Functional, Problem solving model - Psycho therapy, Behavior modification therapy, Environmental modification , Family therapy, Existential therapy . Employability:Case Work Process: Intake, Study, Diagnosis, Treatment . Activities : Seminar,assignment
Concurrent Field Work Practicum – I (Including Group Project)	22PSW1F1	Skill:Through Activities: field wo participatve learning.

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1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Social Group Work	22PSW205	<p>Skill : Social Group Work Process: Pre-group planning: Composition of the group, Pre-group planning , The beginning stage, Middle stage Termination stage - Group work Models                      Employability : Social Group Work in various settings: Correctional, Hospital, Educational, Industries, Old age homes and Communities; Use of Socio metry for Group work; Skills of the Social Group Worker; Scope and Limitations of Group Work in different fields of Social Work in India;. Activities : Seminar,assignment</p>
Community Organization	22PSW206	<p>Skill : Skills in Community Organization: Skills: Community Welfare Organization: Nature, Types – 1) Community Welfare Council 2) Community Chest - Commnity organization practice: Rural, Urban, Tribal, Minority groups - Problems faced by Community organizer. Social Action, Social movements &amp; Social activist: Quit India Movement, Swadeshi Movement                      Employability : Community Organization: Definition, Objectives, Principles, Approaches of Community Organization – Scope, Philosophy and Goals and models of community organization. Phases &amp; Methods of Community Organization: Phases: a) Reconnaissance b) Social Study or diagnostic c) Planning or developmental d) Implementation                      Activities : Seminar,assignment</p>

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**1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT**

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Social Work Research and Statistics	22PSW207	<p><b>Skill :</b> Statistics: Definition, importance, functions and limitations                      - Measures of Central Tendency: Mean, Median, Mode, Correlations: Moment Correlation and Rank Correlation                      - Chi-square: uses and applications – T test: Student’s T – test – ANOVA:  <b>Employability:</b> Research: Definition, Basic Concepts: Theories, Variables, Hypothesis –Scientific method: - Requisites of a good scientific method  <b>Entrepreneurship:</b> Problem Identification, Data: meaning, types. Methods of Data collection: Qualitative - Interviews, focused group discussion, Participant Observation case study. Quantitative  <b>Activities :</b> Seminar,assignment</p>
Labour Welfare and Labour Legislations	22PSW2A1	<p><b>Employability:</b> Concept of labour ,Labour Welfare: Concept, Social Security, Wage: The concept, Others Labour legislations  <b>Activities :</b> Seminar,assignment</p>
Medical Social Work	22PSW2B1	<p><b>Employability :</b> Clinical social work practice in Hospital settings</p>
Rural Community Development	22PSW2C1	<p><b>Employability :</b> Community Development Administration &amp; Planning: Organization setup and Administration from National, State, District Level and Block Level  <b>Activities :</b> Seminar,assignment</p>
Concurrent Field Work Practicum – II (Including Rural/Tribal Camp)	22PSW2F2	<p><b>Skill :</b> Through participative learning.  <b>Activities:</b> field work</p>
Non Major Elective – Introduction to Psychology/	22PSW2N1 22PSW2N2	<p><b>Skill :</b> Psychology, Personality, Perception, Learning, Abnormality  <b>Activities :</b> Seminar,assignment</p>
Introduction to Intellectual Property Rights (IPR)		<p><b>Skill :</b> Basics of Intellectual Property- Patent System: An Overview                      Introduction to Copyright Trademark: Principles of Trademark                      Academic integrity and Plagiarism  <b>Activities :</b> Seminar,assignment</p>

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**1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT**

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Concurrent Field Work Practicum – III	21PSW3F3	Skill : Through participatve learning. Activities: field work
Industrial Relations	21PSW3A3	Skill : The Concept of Collective Bargaining , Employability: Industrial Relation, Trade Union Entrepreneurship : workers participation in management in India - limitations to workers participation. Activities : Seminar,assignment
Psychiatric Social Work	21PSW3B3	Skill : Psychiatric social work:, Role of psychiatric social worker, Policies and legislations related to Mental Health in India Entrepreneurship : Psychological methods / treatment,Therapy , Psychiatric Social Worker Activities : Seminar,assignment
Management of Non-Governmental Organizations	21PSW4C5	Employability: Project identification, Project CycleManagement: , Project personnel empowerment Entrepreneurship : Non – profit organization, Project identification, Budgeting Activities : Seminar,assignment
Concurrent Field Work Practicum – IV	21PSW4F4	Skill : Through participatv learning. Activities: field work
Research Dissertation & Viva Voce	21PSW4P1	Skill : SPSS Activities : Practical Learning of Tests & Analysis
Counseling Theory & Practices	21PSW410	Skill : The Portrait of a Counsellor and Counselee, Theories/ Approaches to Counselin Employability : The Portrait of a Counsellor and Counselee, Counseling Skills & Process, Counseling in Different Settings Entrepreneurship: : The Portrait of a Counsellor and Counselee, Theories/ Approaches to Counseling Activities : Seminar,assignment

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**1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTREPRENEURSHIP/SKILL DEVELOPMENT**

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
CORE I: Financial Accounting - I	22UBI101	EM: Final Accounts of a Sole trader SD: Difference between Hire Purchase and Installment Purchase System
CORE II: Indian Banking System	22UBI102	EM : Understanding Banking system in India EN: Innovativeschemes offered for entrepreneurs
ALLIED I: Business Economics	22UBI1A1	EN:Methods of Demand Forecasting SD: Role and Responsibilities of a Business Economist
Financial Accounting – II	22UBI203	EM: Calculation of Ratio for Distribution of Profits EN: Dissolution of a firm SD: Preparation of Statement of Affairs and Deficiency Account
CORE IV: Banking Law and Practice	22UBI204	EM: Relationship Between Banker and Customer EN:Forms of Advances , Modes of Charging Security, Lien, Pledg, Essentials, Advantages Rights and Duties, Mortgage – Forms - Rights of Mortgager and Mortgagee - Assignment – Hypothecation- Characteristics.
ALLIED II: Business Mathematics and Statistics	22UBI2A2	EM: Analytical thinking and Problem solving, Analysis of various statistical tools.
CORE V: Corporate Accounting	21UBI305	EM: Holding Company Accounts EN: New Format Company Final Accounts SD: Difference between Life and General Insurance
Executive Business Communication	21UBI306	EN: Types of Business Letter SD: Application letters – Preparation of Resume
Principles of Life Insurance	21UBI307	EM: Premium Calculation in Life Insurance EN: Industrial Life Insurance SD: Bases of Calculating Surrender values

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**1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT**

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Business Law	21UBI308	EM: Rights and Duties of an agent EN: Legal Rules Relating to Offer
ALLIED III: Business Application Software and Information Security	21 UBI3A3	EM: Understanding cyber security concepts EN: Password Management and Networks, firewall and related concepts EN: New Format Company Final Accounts EN: Types of Business Letter EN: Industrial Life Insurance EN: Legal Rules Relating to Offer EN: Password Management and Networks, firewall and related concepts SD: Find out Types of Attack and Security Threats and Vulnerability
ALLIED LAB I :Programming Laboratory in MS Office	21 UBI3A4	EM : Developing forms in MS Access in Real time environment EN: Developed template design SD: Working in MS office packages.
Non Major Elective - I : Fundamentals of Insurance	21UBI3N1	EM:Classification of insurance EN:Classification of life policies SD:Surrender Value
Non Major Elective - II :Fundamentals of Banking	21UBI3N2	EM:Types of Accounts SD: Customer Relationship
Cost Accounting	21UBI409	EM:FIFO,LIFO EN:Preparation of Process Account
CORE X: Principles of General Insurance	21UBI410	EM:Role of Development Officer, Characteristics of Successful Development Officers EN:Role of Insurance Agents SD:Premium Calculation in Marine Insurance



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**1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT**

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
CORE XI: Principles of Marketing	21UBI411	EM: Modern Marketing Concept EN: Product Planning and Development SD: Personal Selling and Salesmanship
Company Law	21UBI412	EM: Qualification and Disqualification of Directors EN: Constructive Notice of Memorandum and Articles
ALLIED IV: Introduction to Industry 4.0	21UBI4A5	EM: Big Data Applications EN: Internet of Things (I o T) SD: Artificial Intelligence (AI)
Commerce and Banking Practicals	21UBI4N1	EM: Pay Roll SD: 4. Office Layout
Recent Trends in Banking	21UBI4N2	EN: Micro Small and Medium Enterprises SD: Mobile Banking
CORE XIII:Income Tax	20UBI513	EM:Assessment of Individuals SD: Computation of Total Income of individuals
CORE XIV:Indirect Tax	20UBI514	EM: Filing of Returns. EN: Composition Levy SD: Levy and Collection from Customs Duty
CORE XV: International Banking	20UBI515	EM: Foreign Exchange Markets EN: Exchange and Trade Control Guidelines for Exporters and Importers SD: Risk in International Trade, Types of Risk
CORE XVI: Principles and Practices of Auditing	20 UBI516	EM: Qualities of an Auditor EN: Auditor's Position Regarding the Valuation and Verification of Assets and Liabilities

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**1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT**

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
CORE XVII: Institutional Training	20UBI517	EM: Banking and Insurance Sector EN: Business SD: Hands on training
Major Elective - I: Customer Relationship Management	20 UBI518	EM: CRM Services EN: CRM Selection and Implementation Process SD: Call Centre
Principles of Management	20UBI5S1	EM: Delegation and Decentralization EN: Planning SD: Communication
Entrepreneurship Development	20UBI5S2	EN: Concept of Entrepreneurship
CORE XVIII: Management Accounting	20UBI619	EM: Applications of Marginal Costing Techniques
CORE XIX: Financial Innovations in Banking and Insurance	20UBI620	EM: Recent Development in Banking Industry EN: Business Correspondent - PMJDY – PMJBY Scheme I and Scheme II SD: Internet Banking, Online Insurance
CORE XX: Programming Laboratory- II Tally	20UBI621	EM: Final Accounts with Adjustments EN: Company Creation
CORE XXI: Commerce, Banking and Insurance Practicals	20UBI622	EM: Proposal Form for Motor Vehicle SD: Application for Net Banking
Financial and Investment Management	20UBI623	EM: Company Analysis. Technical Analysis EN: Players in Financial Service Sector SD: Non-Banking Financial Intermediaries
Elective - III: Financial Markets and Institutions	20UBI624	EM: Credit Rating Agencies in India EN: Goals of Financial Management SD: Capital Budgeting Decisions – Techniques

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**1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTERPRENEURSHIP/SKILL DEVELOPMENT**

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
E-Commerce and Its Applications	20UBI6S3	EM: Business Models of E-commerce EN: Need for Setting up Shop for E-Commerce SD: Online Share Trading – Railway/Air Ticket Reservation
Human Resource Management	20UBI6S4	EM: Training and Development EN: Recruitment
Core - I : Financial Accounting	22UCO101	EM- Final Accounts of SoleTrader, Depreciation, Branch Accounts Hire Purchase and Installment and Royalty Accounting
Core - II : Banking and Insurance	22UCO102	EM-Banking System, Negotiable Instruments, Types of Insurance
Allied - I : Business Economics	22UCO1A1	EN: Law of Demand, Production and Cost function, Pricing Policies
Core - III : Higher Financial Accounting	22UCO203	EM: Admission, Retirement, Insolvency, Dissolution of Partnership and Joint Venture Account
Core - IV : Commercial Law	22UCO204	EN -Indian Contract Act, Consideration, Performance of Contract, Contract of Indemnity, Guarantee and Agency.
Allied - II : Business Application Software and Internet	22UC02A2	SD-Introduction to Windows -Introduction to PowerPoint-Access-Introduction to Internet-World Wide Web
Allied Lab - II : Programming Lab in Business Application Software and Internet	22UCO2A3	SD-Series - Matrices-Variables -Integration-Linear programming problem
Core - V : Corporate Accounting	21UCO305	EN - Types of Shares and Debentures, Financial Statement of Companies
Core - VI : Income Tax	21UCO306	EM-Income from Salaries, House Property, Profits and Gains of Business or Profession, Capital Gains and Income From Other sources.
Core - VII : Company Law and Secretarial Practice	21UCO307	EN- Memorandum and Articles, Directors, Prospectus, Meeting and Winding up
Core - VIII : Principles of Management	21UCO308	EM-Planning, Organizing, Staffing, Leadership, Business Ethics

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Allied - III : Business Mathematics	21UCO3A4	SD-Series - Matrices-Variables -Integration-Linear programming problem
Non Major Elective - I/ Practical Banking/ Fundamentals of Accounting	21UCO3N1 /21UCO3N2	EM -Types of Customer, Deposit, Loans and Advances, Cheque.ATM, Net Banking/ Accounting Concepts, Journals, Ledger, Cash Bookand Final Accounts
Core - IX : Higher Corporate Accounting	21UCO409	EM - Amalgamation, Absorption, Reconstruction, Insurance and Banking Accounts
Human Resource Management	21UCO410	EM -Acquisition of Human Resources, Training and Development, Performance Appraisal and Employee Relations
Indirect Taxation	21UCO411	EM - Customs Law, Goods and Services Tax, Registration and Filling of Returns. SGST, CGST, IGST and Concept of Supply
Core Elective -1 Financial Services/ Core Elective -1 Modern Marketing	21UCO4E1 / 21UCO4E2	EM-Mutual Funds, Venture Capital, Factoring and Credit Rating/Price Determination,Physical Distribution, Buyers Behaviour
Allied - IV : Statistical Methods	21UCO4A5	SD-Dispersion, Skewness, Correlation, Index Numbers, Analysisof Time Series and Business Forecasting.
Non Major Elective – Consumer Affairs/ Fundamentals of Marketing	21UCO4N1 /21UCO4N2	EM -Consumer Rights, Way of filing Complaints, Consumer Protection and Quality Standardization/Market Segmentation, Digital Marketing, Modern Marketing Concepts and Product Promotion
Core - XII : Cost Accounting	20UCO513	EN - Material Cost, Labour and Overheads and Process Costing
Core –XIII : Auditing Principles and Practice	20UCO514	EM - Internal Check, Internal Audit, Verification and Valuation , Audit of Computerized Accounts.
Core XV : Retail Management	20UCO515	EM-Introduction to Retail Management,Retail Strategy Managing Retail Store,Emerging Trends in Retailing, Careers in Retailing
Business Communication	20UCO516	EM - Enquiries and Collection Letters, Secretarial, Public Relation Correspondence, Filling of Various business- related forms

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core - XVI : Institutional Training	20UCO517	SD-Develop field Knowledge and integrate work placeKnowledge
Commerce Practical	20UCO518	EM-To understand the importance of Goods and Services Tax (GST) in India / SD-Computation of Tax Liability 4 Filling and Preparation of Saral form and Form16
Core XIX Entrepreneurial Development	20UCO519	EM-Project Identification and Appraisal, Institutions assisting Entrepreneurs, Women and Social Responsibility, Government Policy.
Skill Based Elective - I: Intellectual Property Rights / Advertisement and Sales Promotion	20UCO5S1/20UCO5S2	EM-Patents, Copy right, Trade Marks, Unfair Competitions/ Advertising Agencies, Advertising Campaign and Sales Promotion
Core – XVII: Management Accounting	20UCO620	EM-Ratio Analysis, Fund Flow and Cash Flow Statement, Budgetary Control, and Marginal Cost Techniques
Core - XVIII : E-Commerce and cyber Security	20UCO621	EM-Electronic Payment System, Components of Communications Systems and Authentication
Core - XX : Skill Enhanced Course– Case Analysis	20UCO622	EN-Case Studies in Marketing Management, HRM, Financial Management and Costing
Core - XXI : E- filing of Income Tax Return	20UCO623	SD-Filing of Personal Returns In Portal Offline tool Usage fillingof Person Income tax returns
Core Elective - II : / Financial Management	20UCO624	EM-Cost of Capital, Capital Structure Theories, Working Capital Management and Dividend theories
Core Elective – III : / Service Marketing and Customer Relationship Marketing	20UCO625	SD: Service Life Cycle Design,Marketing of Services, Emerging trend in CRM
Skill Based Elective - II Commerce for Competitive Exam	20UCO6S3	SD-Banking and Insurance,Economics,Investment,Numerical Ability,Reasoning Ability
Business Ethics	20 UCO6S4	SD-Introduction to Business Ethics,HRM and Ethics HRM and Ethics,Finance and Ethics,Corporate Social Responsibility (CSR) and Ethics

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Programming Lab- Accounting Package	20UCO623	SD -programes in Final Accounts with Adjustments and Cost centres etc.,
Financial Accounting	21UMA3A3	EM-Final Accounts, Single Entries, Branch accounts and Depreciation
Tally ERP 9	21UMA3A4	SD-Accounting entries can made through Tally ERP 9
Cost and Management Accounting	21UMA4A5	EM-Material Cost, Labour Cost and Overheads, Fund Flow and Cash Flow Analysis and Ratios in Management Accounting.
Commerce Practical	21UMA4A6	SD-Computation of Tax Liability 4 Filling and Preparation of Saral form and Form16
CORE XX : Investment Management	20UEC620	EM SD-100% Activity - Seminar,Quiz,Assignments
CORE XXI : Java Programming	20UEC621	EM SD-100% Activity - Seminar,Quiz,Assignments
CORE XXII : Programming Laboratory – VI: Java	20UEC622	EM,SD-100% Activity - Seminar,Quiz,Assignments
SKILL BASED ELECTIVE Subjects - 2 Company Law / Project management	20UEC6S3/20UEC6S4	EM SD-100% Activity - Seminar,Quiz,Assignments
<b>Core - V</b> : Modern Marketing	21UEC307	EM- Tele-marketing - Career Opportunities in Marketing EN - Product Policy- Product Planning and Development - Product Life Cycle –Product Mix - Pricing - Pricing Policies and Strategies - Consumer Protection Act SD - Advertising - Multi- level marketing Activity - Seminar, Group Discussion,Assignments, Role play
<b>Core - VI</b> : Object Oriented Programming with C++	21UEC308	EM- Introduction To C - Introduction To C++ - Array of Object SD - Inheritance-Managing Console I/O Operations Activity - Seminar, Group Discussion,Assignments
<b>Core - VII</b> : Advanced Accounting	21UEC309	EM,SD - 100% Activity - Seminar,Quiz,Assignments

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Allied - III : Statistics for Business	21UEC3A3	EM-Meaning and Definition of Statistics – Collection of data – Primary and Secondary - Classification and Tabulation – Diagrammatic and Graphical presentation Measures of Central tendency – Mean, Median, Mode, Geometric Mean and Harmonic Mean – simple problems SD-Index numbers (Price index only) – Method of consumption – Wholesale and Cost of living indices, weighted index number – Lasperes Method, Paasches Method, Fishers Ideal Index (excluding tests of adequacy of index number formulae)- Correlation
Core Lab - III : Programming Laboratory – III: Object Oriented Programming with C++	21UEC310	EM SD - 100% Activity - Seminar, Assignments
Non-Major Elective – II E-Commerce	21UEC4N22	EM - Architecture of Intranet and extranet activities EN-Business-to Activity- Business Seminar, Group Discussion
Core - I : Principles of Accounting	22UEC101	EM - Journal – Ledger – Trial Balance – Final Accounts EN - Hire purchase and Installment system Activity - Seminar, Assignments, Quiz
Core - II : Business Application Software	22UEC102	EM- Introduction to worksheet and excel - Getting started with excel - Editing cells and using commands and functions SD-Access-Databases and tables-Creating Tables for storing data – Relationship between tables – Selection with queries EN- Creating a presentation different views in power point. Activity - Seminar, Assignments, Quiz

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Allied - I : Business Economics	22UEC1A1	EM - Law of Demand – Determinants of Demand - Cost Concepts EN - Market Structure – Perfect Competition – Monopoly – Monopolistic Competition – Oligopoly. Activity - Seminar, Assignments
Core Lab - I : Programming Laboratory – I : MS – Office	22UEC103	EN 100% of the content SD-100% Activity- Seminar, Assignments, Quiz
Core - III : Business Communication	22UEC204	EM- Importance of Effective Business Communication -Modern Communication Methods, Application Letters – Preparation of Resume – Interview - Technique of various types of Interviews –Characteristics of good speech. EN -Trade Enquiries – Orders and their Execution – Credit and Status enquiries SD - Company Secretarial Correspondence Activity :Seminar, Assignments & Quiz
Core - IV : Fundamentals of E-Commerce	22UEC205	EM-Applications of E- commerce EN - E-Business–E-Business Activity- Architecture- Seminar, Group Discussion
Allied - II : Principles of Management	22UEC2A2	EM-Channels of Communication – Barriers of Communication EN-Leadership – Functions and Types – X, Y and Z Theories – Qualities of a Good Leader SD-Management by Objectives (MBO) Activity- Seminar, Role play, Assignments, Quiz



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**1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTREPRENEURSHIP/SKILL DEVELOPMENT**

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core Lab - II : Programming Laboratory – II : Accounting Package Tally	22UEC206	EM - Company Creation & Alteration - Creating and Displaying Ledger Voucher Creation - Voucher Alteration and Deletion - Final Accounts without Adjustments -Final Accounts with Adjustments  SD -Inventory Information - Bank - Reconciliation Statement- Creating and Displaying Godowns - Bill wise Statement-Cost Categories and Cost Center Activity: Preparation of accounting statements
Executive Communiation	20 UPA 515	SD: Preparation of Resume, Interview
Operations Research	20 UPA 5E3	SD: CPM / PERT Analysis
Cost Accounting	20 UPA 514	EM: Cost Sheet, Labour Cost
Financial Services	20UPA 516	SD:Mutual Fund – Classification of Mutual Funds – Asset Securitization.
Skill Based Subject: Business Ethics	20 UPA5S1	EM: Ethics in workplace
Banking Theory Law and Practice	20UPA 5E1	SD: E-Banking, Cheques
Core XVII : Management Accounting	20 UPA 617	EM: Ratio Analysis, Budgeting
Core XVIII : Strategic Management	20 UPA 618	EN:Formulation of functional strategies SD: SWOC Analysis
Core XIX : Information Technology & E-Security	20 UPA 619	SD: Cyber Security,
Core XX : Auditing and Assurance	20UPA 620	EM-Audit Working Papers SD: Green Audting, E-Auditing
Core XXI : Human Resource Management	20 UPA 621	EM: Career Planning EN: Recruitment, Selection and Promotion SD: Training and Development

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Major ELECTIVE III: Practical Auditing	20UPA 6E5	SD: Tax Filing, GST Filing and visits to companies by accompanying auditors to conduct concurrent audits by the students
Skill Based Major Elective :Entrepreneurial Development Programme	20 UPA6S3	EN: Start-up Process
Modern Marketing	21UPA308	SD:Advertising, Publicity, Personal Selling
Computer Application I Programming Lab in MS office	21UPA 3A3	SD: MSWord, Excel, Powerpoint and Access
Income Tax	21UPA 306	SD: Calculation of Tax Liability of Individuals
Business Management	21UPA309	EN: Leadership and Motivation
Non Major Elective –Accounting and Auditing	21UPA 3N1	SD: Audit Report
Company Law and Secretarial Practice	21UPA307	SD: Drafting of Correspondence relating to the Meetings
Corporate Accounting	21UPA 305	EM: Financial Statement of Companies
CORE X : Higher Corporate Accounting	21UPA 410	EM: Banking Company Accounts
CORE XI : : Industrial Law	21UPA 411	EM: Payment of Wages Act, 1936
CORE XII : Financial Management	21UPA 412	EN: Capital Budgeting
CORE XIII: Indirect Taxation	21UPA 413	EM: GST Filling and Returns
ALLIED IV : Computer Applications – II Programming Lab in Tally	21UPA 4A4	SD: Internet Calculation
Non-Major Elective II : Taxation	21UPA4N1	SD: Customs Duty
Financial Accounting	22 UPA 101	EM: Final Accounts of a Sole Trader(AS-04)
General Economics	22 UPA 102	SD: Demand and Supply
Quantitative Aptitude - I	22 UPA 1A1	SD: Simple Interest and Compound Interest including Annuity
Core - III : Financial Accounting-II	22UPA203	EM: Partnership Accounts

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core - IV : Commercial Law	22UPA204	SD: Contract of Indemnity and Guarantee
Allied - II : Quantitative Aptitude -II	22UPA2A2	SD: Statistical Description of Data
Financial Accounting	22UCC101	EM: Problems in Straight Line and Diminishing Balance Methods including Changeover Method, Machine Hour Rate Method- Sinking Fund Method- Annuity Method (Simple Problems only). EN: Accounting: Basics - Principles - Types of Accounts – Accounting Rules - Journal - Ledger - Trial Balance - Subsidiary Books. Single Entry (Theory only) SD: Branch Accounts: Meaning – Types of Branches –Preparation of Branch Accounts (Excluding Foreign Branch).
Office Automation	22UCC1A1	EM: Create the following Tables: a) Student’s Personal Details b) Student’s Mark Details. Perform the following Relate the Tables Show the details of students who passed in all subjects. Show the details of students whose subject score in all subjects are above 60. Create a Form and Report for the Tables.SD: Design a MS-Word document with all basic features. Design the front page of a Magazine in MS Word. Build a table in MS Word projecting the details of the student’s in our department Using Mail Merge concept send invitation for Board Meeting to all the members of the company.

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Business Economics	22UCC102	EM: Cost Analysis: Meaning - Cost Concepts - Cost Output Relationship: Total Cost, Average Cost and Marginal Cost. EN: Business Economics: Meaning - Definition- Objectives- Concepts Nature and Scope – Recent Trends in Business Economics - Roles and Responsibilities of Business Economist
Higher Financial Accounting	22UCC203	EM: Calculation of Ratios for Distribution of Profits – Capital Adjustments. EN: Introduction to Partnership – Interest on Capital – Profit and Loss Appropriation Account – Capital Ratio - Past Adjustments and Guarantees. SD: Calculation of Gaining Ratio- Revaluation of Assets and Liabilities
Business Mathematics	22UCC2A2	EM: Mathematics of Finance: Simple Interest and Compound Interest: Basic concept – calculation of simple interest and compound interest- Effective Rates and Nominal rate of interest. SD: Matrices: Definition of matrix – types of matrix – matrix operations. Determinants: Solving simultaneous equations in 3 variables using Cramer's rule.
HTML & Web Designing	22UCC204	EM: Write a HTML code for designing a web page for system configuration Design a web page to show the subject covered in the first year SD: List out the educational website using unordered list Generate a web page using link within a web page

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Corporate Accounting	21UCC306	<p>EM: Shares – Meaning – Types of Shares – Issue of Shares - Forfeiture and Reissue. Issue of Debentures – Redemption of Debentures.</p> <p>EN: Shares – Meaning – Types of Shares – Issue of Shares - Forfeiture and Reissue. Issue of Debentures – Redemption of Debentures.</p> <p>SD: Rebate on Bills Discounted</p>
Principles of Marketing	21UCC307	<p>EM: Advertisement: Meaning– Kinds – Advertising Media. Personal Selling: Meaning - Personal selling – kinds – Functions – Qualities of a good salesman – Personal selling Vs. Sales promotion – Market research.</p> <p>EN: Introduction to Marketing: Marketing – Meaning – Definition – Evolution of Marketing - Importance – Functions of Marketing – Marketing Mix - Introduction to 4 Ps. Market Segmentation: Basis of Market Segmentation – Benefits of Market Segmentation.</p> <p>SD: Online marketing: Meaning – Importance – Kinds– Advantages – Disadvantages. Modern Marketing concept- Global Marketing –E-marketing – Tele marketing- Viral Marketing- Green Marketing – Social Marketing- Services Marketing – Viral Marketing - Customer Relationship Marketing – Global Marketing</p>

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
RDBMS	21UCC308	EM: Oracle: Introduction – Tools of Oracle – Introduction to SQL – Oracle Internal Data Types – Divisions of SQL: Data Definition Language, Data Manipulation Language, Data Control Language and Transaction Control Language. Keys: Primary Key, Foreign Key and Referential Key. SQL * Plus Functions: Date, Character, Numeric, Conversion, Miscellaneous and Group Functions. Set Operators – Relating Data through Join Concept. SD: Database Systems: Introduction – Purpose – View of Data – Data Abstraction – Instances and Schemas – Data Independence.
Company Law	21UCC309	EM: Share Capital – Kinds of Shares – Transfer and Transmission of Shares – Company Meetings – Statutory Meeting – Annual General Meetings – Extra-ordinary General Meetings – Requisition of a Valid Meeting: Notice, Quorum, Chairman, Proxy, Voting, Resolutions and Minutes. EN: Company– Meaning and Definition – Characteristics – Kinds – Privileges of Private Company – Conversion of a Private Company into a Public Company – Formation of a Company – Difference Between Companies Act 1956 and 2013
Executive Communication (Practical)	21UCC3A3	EM: Oral Communication - Bank Correspondence - Insurance Correspondence Agency Correspondence- Application Letters Preparation of Resume EN: Written Communication SD: Group Discussion - Telephonic Conversation - Business Presentation Role Play

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Lab - III : Oracle	21UCC310	<p>EM: Create a table for student attendance and mark details and combine the results of two queries using the set operators. Create a table and perform SQL * Plus functions – Group and single row functions Create a table and display the database objects in partition view</p> <p>SD: Develop PL/SQL block to check the availability of stock for the given product Create a PI/SQL program to display the multiplication table</p>
Non Major Elective I: Customer Relationship Management	21UCC3N1	<p>EM: Customer Profile – Customer Values – Customer Life Cycle — Characteristics of Outstanding Customer Service – Managing Customer Satisfaction</p> <p>EN: Concept of CRM - Characteristics and Peculiarities of CRM – Steps in CRM - Relevance of CRM</p> <p>SD: Customer Centric Marketing – Bonding of Customer Relationship.</p>
Non Major Elective I: Supply Chain Management	21UCC3N2	<p>EM: Designing the Distribution Network in Supply Chain - Network Design in the Supply Chain - Network Design in an Uncertain Environment</p> <p>EN: Supply Chain – Introduction – Meaning – Definition - Decision Phases in a Supply Chain - Process View of Supply Chain – Importance - Supply Chain Performance - Supply Chain Drivers and Obstacles.</p> <p>SD: Planning and Managing Inventories in a Supply Chain - Managing Economies of Scale in the Supply Chain - Managing Uncertainty in the Supply Chain: Safety Inventory.</p>

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Visual Basic	21UCC412	EM: Client/Server Architecture: Benefits – Downsizing – Upsizing – Right sizing – Models – Architecture: Technical Architecture, Application Architecture, Two Tier Architecture, Three Tier Architecture, OLTP & n Tier Architecture. SD: Data Controls: Data Access Objects (DAO) – Accessing and Manipulating Databases – Record set – Methods of Record set – Creating a Record set – Modifying, Deleting Records – Finding Records
Business Law	21UCC413	EM: Contract of Agency – Classification – Creation of Agencies – Rights and Duties of an Agent – Liabilities of the Principal to the Third Parties – Personal Liability of an Agent – Contract of Sale of Goods Act 1930 – Rules regarding Delivery of Goods – Rights and Duties of a Buyer and Seller. EN: Law – Meaning - Indian Contract Act, 1872 – Contract – Definition – Classification of Contracts – Essential Elements of Valid Contract.
Business Statistics	21UCC4A4	EM: Correlation: Definition Types of correlation, Karl Pearson's correlation. Rank correlation – Definition - Spearman's rank correlation coefficient Regression: Definition – Uses – difference between Correlation and Regression – Regression lines - simple problems SD: Methods of Finding Median : Discrete series – Continuous series . Mode: Discrete series – continuous series - Harmonic Mean - Geometric Mean. Measures of Dispersion : Range – Quartile Deviation – Average Deviation - Standard Deviation : Discrete series – continuous series – combined standard deviation.



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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Lab - IV : Visual Basic	21UCC414	EM: Create a VB application to calculate simple and compound interest. Develop a quiz application in Visual Basic SD: Develop a VB program to count number of words in a text. Design a form to show the employee pay slip using if statement
Non Major Elective II: - II : Commerce & Computer Application Practical	21UCC4N1	EM: Share Application Form - Online employment registration and renewal EN: Fixing brand name SD: Preparation of Resume with and without using resume wizard Create students mark list with necessary information using access
Non Major Elective - II : Retail Management	21UCC4N2	EM: Employee Productivity- Importance and Applications of Information Technology in Retail. EN: Retailing: Meaning, Importance-Risk of Retailers- Challenges facing Global Retailers-Retail in India: Drivers of Retail changes- Challenges for RetailDevelopment. SD: Steps involved in Developing Strategy- Choosing a Retail Location.
Income Tax	20UCC514	EM: Calculation of Tax Liability of Individual EN: Profits and Gains of Business and Profession – Business Vs Profession SD: Income from House Property – Annual Value Computation - Let out House and Self-Occupied House- Income from Capital Gains- Short - term and long- term Capital Gains – Exempted Capital Gains

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Banking and Insurance Law	20UCC515	EM: Paying and Collecting Banker – Duties and Liabilities – Circumstances for refusing Payment of Cheque – Consequences of Wrong Dishonor – Statutory Protection for Paying and Collecting Banker EN: Concepts of Banking Terms Relationship between Banker and Customer
Programming in C	20UCC516	EM: Decision Making and Branching – Decision making and Looping: If, If...else Statements, Else...if Ladder – Switch Statement – Go to Statement – While Statement – Do Statement – For Statement – Jumps in Loops SD: Characteristics of Arrays & String Manipulation: Introduction - Declaring & Initializing Variables – Arithmetic Operations and Characters – String Handling Functions.
Lab –V : C	20UCC517	EM: Generate a program to calculate the electricity bill. Design a program to find the sum of all elements stored in an array using pointer SD: Construct a program to find number of days in a month using switch case Generate a program to find students average using structure
Institutional Training	20UCC518	EM: Financial institutions / companies EN: Undergo training SD: Work Diary
Major Elective-I: Stock Market Operations	20UCC5E1	EM: Organisation and Regulatory framework for stock exchanges in India EN: Recent trends in primary market SD: Different trading systems – Different types of settlements - Pay-in and Pay-out – Bad Delivery – Short delivery – Auction

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Major Elective-I: Consumer Behaviour	20UCC5E2	EM: Consumer Decision Making – Opinion Leadership – Dynamics – Types of Consumer Decision Making – A Model of Consumer Decision Making EN: Customer Value Satisfaction – Retention – Marketing Ethics. SD: Consumer Learning – Behavioural Learning Theories – Measures of Consumer Learning – Consumer Attitude – Formation – Strategies for Attitude Change.
Skill Based Major Elective I: Practical Marketing	20UCC5S1	EM: Discuss in Group – “The Impact of Covid19 in India” EN: Prepare and Present the Development of Market Segmentation for any FMCG products. Give a presentation of the selection and distribution channel for Coconut Products SD: Give a Presentation on the following a. Green Marketing b. Rural Marketing c. Service Marketing
Skill Based Major Elective: Organizational Behaviour	20UCC5S2	EM: Management of Change: Meaning - Importance - Resistance to Change – Causes – Dealing with Resistance to Change – Concepts of Social Change & Organisational Change- Factors Contributing to Organisational Change. EN: Organisational Behaviour – Meaning and Definition - Importance- Organisation as a Social System –Socio -Technical System- Constraints over Organisation and Managerial Performance.

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Management Accounting	20UCC619	EM: Funds Flow and Cash Flow Statement: Funds Flow Analysis – Cash Flow Analysis (New format) (AS-03). EN: Basis of Management Accounting: Management Accounting – Meaning – Definition – Objectives and Scope – Advantages and Limitations - Tools - Relationship between Management Accounting and Financial Accounting – Management Accounting and Cost Accounting SD: Budgetary Control: Budgetary Control – Flexible Budget – Sales Budget – Cash Budget – Production Budget – Purchase Budget
Lab– VI: Multimedia	20UCC620	EM: Drawing and creating text with effects Transforming a shape into another Shape (Circle, Square and Triangle) EN: Reduce Picture Size , Replace colour in an Image SD: Panning shot of an image, Halloween Effect of an image
Auditing and Corporate Governance	20UCC621	EM: Audit of Limited Companies: Company Auditor - Qualification - Disqualification – Appointment –Removal – Remuneration - Rights - Duties and Liabilities of Statutory Auditors under the Companies Act 2013 - Audit Report- Types. EN: Introduction to Auditing: Definition - Basic Principles of Auditing - Objectives of Auditing - Types of Auditing - Advantages of Auditing - Audit Planning - Audit Programme- Audit Procedure

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Major Elective-II: Entrepreneurial Development	20UCC6E3	EN: All the five units, Introduction Entrepreneurship Development Programme Project Identification and Selection Plant Layout & Process Planning Women Entrepreneurship Rural Entrepreneurship
Major Elective II: Services Marketing	20UCC6E4	EM: Marketing the Financial Services – Devising of Strategies in Financial Services EN: Services – Introduction – Meaning – Characteristics – Importance – Classification – Players in Service Sector - Service Sectors in Indian Economy – Components of Service Economy – Evolution and Growth of Service Sector SD: Employees’ and Customers’ Role in Service Delivery – Service Promotion – Physical Evidence – Role of Technology in Service Marketing
Major Elective III: E-Commerce and Information Security	20UCC6E5	EM: Information Security Threats and Vulnerability: Spoofing Identity, Tampering with data, Repudiation, Information Disclosure, Denial of Service, Elevation of Privilege. EN: Introduction to E-Commerce – Meaning – Definition – Perspectives of E- Commerce – History of E-Commerce – Framework of E-Commerce – E- Commerce Drivers – Adoption of E-Commerce – Traditional Vs Electronic Commerce – Advantages and Disadvantages of E-Commerce SD: Online Banking: Core Banking Solution (CBS)

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Major Elective III: Foreign Exchange Management	20UCC6E6	EM: Buying and selling rate - Types – Cross rates on buying and selling rate - Future contract and option contract - Forward contract - Forward exchange rate based on cross rates. EN: Foreign exchange and foreign trade- Exchange rate- Types - Administration of foreign exchange - RBI Regulations – FEDAI- FEMA-Role of banks in foreign exchange - FOREX department - Foreign currency accounts - Foreign exchange market.
Skill Based Major Elective: Commerce and Computer Application Practical	20UCC6S3	EM: Share Application Form Preparation of application form for PAN Card EN: Fixing brand name SD: Preparation of Resume with and without using resume wizard Create students mark list with necessary information using access
Skill Based Major Elective II: Investment Management	20UCC6S4	EM: Investment – Meaning – Investment and Speculation – Investment and Gambling – Source of Investment – Investment Media EN: Return and Risk – Credit Rating. SD: Fundamental Analysis. Technical Analysis
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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core - I :Higher Corporate Accounting	22PCC101	EM: Preparation of Company Final Accounts– Divisible Profit: Declaration of Dividend and Transfer of Reserve Rules 1975 - Managerial Remuneration - Bonus Shares. EN: Indian Accounting Standards: An Overview - Disclosure of Accounting Policies (AS1) – Valuation of Inventories (AS2) – Cash Flow Statements (AS3) – Depreciation Accounting (AS6) – Accounting for Amalgamation (AS14). SD: Performing and Non- Performing Assets (NPA): Meaning – Treatment - Preparation of Profit and Loss Account and Balance Sheet.
Core - II :Managerial Economics	22PCC102	EM: Pricing Decision: Pricing and Output Decisions in Different Market Situations - Pricing under Perfect Competition – Monopoly - Monopolistic Competition - Duopoly and Oligopoly EN: Managerial Economics: Meaning - Nature and Scope – Role and Responsibilities of Managerial Economist - Relationship between Managerial Economics and Other Subjects – Uses of Managerial Economics. SD: Cost Analysis: Cost Theory - Cost Concept - Cost and Output Relationship - Break Even Analysis.
Core - III :Digital Marketing	22PCC103	EM: New rules of Marketing in a Digital Age - Online Selling Formats – Pricing Issues in Digital Marketing – Online Consumers Perspective. Knowledge Exchange: Goals of Knowledge Exchange – Effects of Knowledge Exchange in Digital Marketing.

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
		<p>EN: Marketing: Introduction – Definition – Meaning – Evolution of Marketing – Objectives – Importance – Functions. Market Segmentation: Meaning - Criteria – Bases - Benefits. Marketing Mix: Definition – Elements of Marketing Mix – Problems.</p> <p>SD: Website Designing and Development: Content Writing-Blog Creation- Ad words and Keyword Selection- Navigating Ad Words</p>
Core Elective I: Business Environment	22PCC1E1	<p>EM: Technological Environment: Features – Status of Technology in India - Impact of Technology on Society and Economy – Restraints on Technological Growth – Technology Policy.</p> <p>EN: Business Environment: Objectives – Importance – Characteristics - Types of Environment – Nature and Scope – Relationship between Economic and Non-Economic Environment – Elements of Business Environment</p>
Core Elective I: Strategic Management/	22PCC1E2	<p>EM: Strategic Evaluation: Importance – Criteria – Quantitative and Qualitative Factors, Strategic Control, Process – Criteria – Types, Essential Features of Effective Evaluation and Control Systems.</p> <p>EN: Strategic Management: Concepts – Difference between Strategy and Tactics – Three Levels of Strategy, Strategic Management Process – Benefits, TQM and Strategic Management Process, Social Responsibility, Social Audit</p>
Core Elective I: Advertising and Sales Promotion	22PCC1E3	<p>EM: Sales Promotion: Meaning – Methods – Promotional Strategy – Marketing Communication and Persuasion – Promotional Instruments</p>



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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
		<p>EN: Advertising Agencies – Advertising Budget – Advertising Appeals – Advertising Organisation – Social Effects of Advertising – Advertising copy</p> <p>SD: Advertising: Meaning – Importance – Objectives – Media – Forms of Media – Press, Newspaper, Trade Journal, Magazines – Outdoor Advertising – Poster – Banners – Neon Signs, Publicity Literature Booklets, Folders, House Organs – Direct Mail Advertising – Cinema and Theatre programme – Radio and Television Advertising – Exhibition – Trade Fair – Transportation Advertising</p>
Core Lab -I : Oracle	22PCC104	<p>EM:</p> <ol style="list-style-type: none"> <li>1. Generate a table for employee salary details and make use of DDL Commands</li> <li>2. Create a table for student details and make use of Select statement under DML commands</li> </ol> <p>SD:</p> <ol style="list-style-type: none"> <li>1. Generate a program to demonstrate group and single row functions</li> <li>2. Create a table for item details and sales details and combine the results of two queries using the set operators</li> <li>3. Write a program to implement join view concept</li> </ol>
Core - IV : Financial Management	22PCC205	<p>EM: Capital Budgeting: Definition - Need and Importance - Investment Evaluation Criteria – Techniques of Capital Budgeting: Payback Method – ARR Method – NPV Method – IRR – Profitability Index</p>

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
		<p>EN: Financial Management: Definition – Scope of Financial Management – Financial Decisions - Functional areas of Financial Management – Role of Financial Manager – Goals of Financial Management – Significance of Financial management                      - Functions of Controller and Treasurers in India – The Changing Scenario of Financial Management in India.                      SD: Time Value of Money: Reasons for time preference of money.</p>
Core - V : Operations Research	22PCC206	<p>EM: Network Scheduling: Introduction – Network and Basic Components – Rules of Network Constructions – Time Calculations in Networks – Critical Path Method (CPM) - Program Evaluation and Review Technique (PERT) &amp; PERT Calculations- Difference between CPM &amp; PERT (Simple Problems only).                      EN: Operations Research: Introduction – Definition - LPP - Graphical Solution Method – General Linear Programming Problem (Definition alone) – Simplex Method: Basic Solutions and Degenerate Solutions to Linear Equation – Simplex Method (Simple Problems)                      SD: Inventory Control: Introduction – Types of Inventory – Economic Order Quantity: Case 1: EOQ with No Shortage Case 2: EOQ with Shortage EOQ with Price Breaks:                      Case 1: EOQ with 1 Price Break                      Case 2: EOQ with 2 Price Break (Simple Problems only)</p>

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core – VI : Management Information System	22PCC207	<p>EM: Computer Hardware and Software: Description of Electronic Computers - CPU Operations - Input devices - Output devices - Classification of computers - Types of software -Data Representation in computers - Introduction to Client/Server</p> <p>EN: Management Information System : Meaning - Definition - Characteristics - Functions - Components - Requisites of an effective MIS - MIS Model - Structure of MIS - Subsystems of MIS - Role and Importance - Approaches to MIS development - Computerized MIS - Limitation of MIS.</p>
Core Elective II: International Business	22PCC2E1	<p>EM: Foreign Exchange: Meaning – FEMA (Foreign Exchange Management Act) 1999 – Features – SWIFT/BIC. Rate Determination. Foreign Exchange – Factors Influencing Fluctuations in Foreign Exchange. Exchange Rates – Meaning – Types – Exchange Control in India.</p> <p>EN: International Business – Meaning – Reasons for International Trade - Nature and Scope - Role of Foreign Trade in the Economic Development in India – International Business Environment. Balance of Trade and Balance of Payment – Adverse and favor of Balance of Payment. Highlights of Foreign Trade Policy (2015 to 2020).</p>
Core Elective II: Entrepreneurship and Project Management	22PCC2E2	<p>EN: Entrepreneurship , Entrepreneur Growth Project Management, Project Identification Source of Finance for a Project</p>

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core Elective II: Brand Management	22PCC2E3	<p>EM: Measuring Brand Performance – Brand Equity Management – Global Branding Strategies – Brand Audit – Brand Equity Measurement – Brand Leverage – Role of Brand Managers – Branding Challenges and Opportunities.</p> <p>EN: Basic understanding of brands: Definition of Brand - Branding Concepts: Brand Name, Brand Attributes, Brand Identity, Sources of Brand Identity, Brand Personality, Brand Awareness, Brand Association, Brand Preference, Customer Equity, Brand Extension - Functions of brand – Significance of Brands – Co-branding – Store brands.</p>
Core Lab -II : VB.Net	22PCC208	<p>EM:</p> <ol style="list-style-type: none"> <li>1. Create a program to calculate the maximum and minimum re-order level using VB.Net application</li> <li>2. Write a program to calculate the electricity charges using flow control statements in VB.Net.</li> <li>3. .Develop an application to find out the labour turnover in an organization through additional methods</li> <li>4. Design a form to enter the personal and mark details of a student.</li> </ol> <p>SD:</p> <ol style="list-style-type: none"> <li>1. Create an application to design the employee pay roll.</li> <li>2. Design an application for maintaining student proctorial system.</li> <li>3. Generate a program to calculate the tax amount on annual income.</li> <li>4. Create an application for library management system.</li> </ol>

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**1.1.2- COURSES FOCUSING EMPLOYABILITY/ENTREPRENEURSHIP/SKILL DEVELOPMENT**

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Non Major Elective II: Basics of Income Tax /	22PCC2N1/	EM: Income Tax–Definitions under Income Tax Act – Person – Assesses – Income – Gross Total Income – Total Income – Agricultural Income- Assessment Year – Previous Year –Exception to General Rule – Scope of Total Income SD: Assessment of Individual(Theory Only)
Non Major Elective II: Financial Services /	22PCC2N2	EM: Financial Services: Meaning – Components – Activities in Financial Markets – Fund Based and Non-Fund Based Activities. Players in Financial Markets. SD: Non-Banking Financial Intermediaries: Definition – Chit Funds – NIDHIS – Benefit Societies. Leasing: Meaning, Advantages, Types, Leasing Vs Hire Purchase.
Core VII – Applied Cost Accounting	21PCC309	EM: Overheads: Meaning – Types of Overheads – Allocation – Apportionment: Preparation of Primary Overhead Distribution Summary – Reapportionment: Secondary Overhead Distribution Summary. Absorption of Overheads: Meaning - Methods and Computation. EN: Cost Accounting: Meaning - Objectives - Importance – Limitations – Difference between Cost Accounting and Financial Accounting - Cost Accounting and Management Accounting. Methods of Costing – Elements of Cost – Preparation of Cost Sheet – Tender – Quotations. SD: Levels of Inventory – EOQ – Methods of Material Control - Methods of Valuing Material Issues – FIFO, LIFO and Weighted Average.

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core VIII – Taxation	21PCC310	<p>EM: Computation of Capital Gains – Income from other Sources Set Off and Carry Forward of Losses - Deduction from Gross Total Income (Theory Only)</p> <p>EN: Income Tax System in India – Definitions Under Income Tax Act 1962 – Person – Assessee – Income – Gross Total Income – Total Income – Income that do not form part of Total Income – Assessment Year – Previous Year (Theory Only) Computation of Profits and Gains of Business or Profession. Basic Concepts: Concept and Features of Indirect Taxes – Genesis of GST in India – Need for GST in India – Benefit of GST – GST Council Changes of GST – Levy of GST on Intra-State Supply (CGST/SGST/UTGST) – Levy of GST on Inter-State Supply (IGST)</p>
Core IX – Research Methodology	21PCC311	<p>EM: Research Problem: Meaning - Identification, Selection and Formulation of Research Problem. Research Design: Components of Research Design – Methods of Research Design.</p> <p>EN: Introduction to Research: Meaning - Definition – Functions – Components – Purpose – Types of Research - Significance – Qualities of a good research and researcher – Steps in Research.</p> <p>SD: Pre-testing and Pilot Study. Data Collection: Primary Data - Meaning – Significance. Methods of Collecting Data: Observation – Interview Schedule – Questionnaire. Secondary Data - Sources of Secondary Data – Precautions while using Secondary Data</p>

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core Elective III – E-Commerce and Cyber Security/	21PCC3E1/	<p>EM: M-Commerce – Definition – Benefits – Limitations – Difference between M- Commerce and E-Commerce – History – Generations – Emerging M-Commerce Scenario Services – Mobile Computing Networks – Infrastructure</p> <p>EN: Meaning and Definition of E-Commerce – Perspectives of E-Commerce – Scope – Drivers of E-Commerce – Myths of E-Commerce – Advantages and Limitations. E-Commerce Framework – Applications. Integrating E-Commerce: B2C – B2B – Supply Chain Management – Business within Business.</p> <p>SD: Network Security – Network Intrusion, Deduction and Prevention Systems, Firewalls. Software Security: Vulnerability Auditing, Penetration Testing, Sandboxing, Control Flow Integrity. Web Security: User Authentication.</p>
Logistics Management/	21PCC3E2/	<p>EM: Indian Shipping Industry: Flags of convenience – conference system – chartering – shipping routes – freight rates – ports in India – stevedores – shipping agents – freight brokers and forwarders – Third party logistics provider-Fourth party Logistics providers (4 pl) - Stages-Role of logistics providers.</p> <p>EN: Logistics: Introduction – Definition - History and Evolution- Objectives – Elements- Activities Importance - logistics mission – growing importance of logistic management – logistics performance cycle – global logistics - Freight – meaning – definition and importance –types –Freight networks</p>

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Customer Relationship Management	21PCC3E3	EM: Sales Force Automation – Contact Management – Concept –Enterprise Marketing Management – Core Beliefs – CRM in India. EN: Overview of Relationship Marketing – Basis of Building Relationship – Types of Relationship Marketing – Customer Life Cycle. SD: Database Marketing – Prospect Database – Data Warehouse and Data Mining – Analysis of Customer Relationship Technologies
Core X – Security Analysis and Portfolio Management	21PCC312	EM: Security Analysis: Fundamental Analysis - Industry Analysis: Concept of Industry – Growth Cycle of Industry – Investment Classification of Industries - Company Analysis – Methods. EN: Portfolio Management: Meaning and Definition –Objectives - Nature and Scope of Portfolio Management – Portfolio Investment Process. SD: Technical Analysis: Basic Technical Assumptions – Technical Vs Fundamental Analysis - Dow Theory – Elliot Wave Principle – Charting as a Technical Tool – Types of Charts – Limitations – Technical Indicators - Forms of Efficient Market Hypothesis.
Core XI – Institutional Training	21PCC313	EM: Financial Institutions/Companies EN: Training SD: Work Diary



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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core XII – Accounting for Decision Making	21PCC414	EM: Ratio Analysis: Meaning – Definition - Advantages and Disadvantages – Classification –Computation of Key Ratios EN: Management Accounting – Nature – Scope – Objectives – Importance – Limitations - Role of Management Accountant - Distinction between Management Accounting, Financial Accounting and Cost Accounting - Analysis and Interpretation of Financial Statements – Methods: Comparative and Common Size Statements and Trend Analysis. SD: Cash Flow Analysis - Meaning - Significance - Difference between Fund Flow and Cash Flow Statement - Preparation of Cash Flow Statement with AS3 (Revised Format).
Core XIII – Human Resource Management	21PCC415	EM: Career Development: Concepts – Stages – Career Development Programme. Promotion, Transfers and Separations: Promotions – Promotion Policy – Promotion Plans – Promotion Programme – Problems in Promotion – Transfers – Demotion – Separations. EN: Human Resource Management: Meaning – Definition – Importance – Scope – Objectives - Functions –Activities – Managerial Skill and Roles – HRD Organisation and Responsibilities –Evolution and Environment.
Core Lab III – Accounting & Statistical Package	21PCC416	EM: Make the following Voucher entries: a) Purchase Voucher b) Sales Voucher c) Payment Voucher d) Receipt Voucher e) Contra Voucher f) Journal Voucher SD: Application of independent 't' Test Application of One-way-ANOVA (Analysis of Variance) Application of Chi-square Test Application of Garrett Ranking

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Management & Marketing - International Perspective	22PIB101	Entrepreneurship: Organizing Process, Leadership, Barriers to Global Marketing, Channels of Distribution & Sales Promotion Activity: Seminars, Case Studies
Accounting for Decision Making	22PIB102	Employability : Financial accounting , Preparation of Cost sheet, Classification of budget , Cost Volume Profits analysis, Preparation of fund flow Activity: Assignment
Cyber Security and Business Communication	22PIB103	Skill Development : Cryptography Authentication, Legal And Ethical Issues: Cyber crime, Principles of Effective Communication, Orders and their execution, Interview Process Activity: Assignment, Case Studies
Innovation and Entrepreneurship	22PIB104	Entrepreneurship: Successful Entrepreneurs of India, Identifying new opportunities for new venture, Guidelines for Preparing a Business Plan creation, product life cycle Activity: Practical Launch Sessions, Panel Discussions
International Business Relations	22PIB1E1	Entrepreneurship : Globalization, Nature of Power, Promotion of National interest, India and major Powers Activity: Seminars, Case Studies
Social Media Marketing	22PIB1E2	Skill Development : Advanced Profile Optimization , How to Make Money Through Face book , Starter Session on What is Instagram, YouTube Reports & Analytics , LinkedIn Page Postings Activity: Seminars, Case Studies
International Logistics Management	22PIB205	Employability : Reverse Logistics - Information system issues within network, Warehousing Types, Elements of Order processing cost , Multi Model Transport Activity: Assignment, Discussion

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Foreign Trade Procedures & Documentation	22PIB206	Skill Development : Duty Free Drawback,Open Account, Duty Drawback,Features of Various Document, Types of Bills of Entry Activity:Seminar, Assignment
Shipping and Air Cargo Management	22PIB207	Employability : Classification of ship (route point), Automated Container handling, Containerization, International Air Routes, Handling COD shipments Activity: Seminar, Assignment
Map Reading and Route Tracing	22PIB208	Skill development : Capital,INCOTERMS Activity: Record Work, Assignment
International Supply Chain Management	22PIB2E3	Employability : Implementation of supply chain management - material handling E Procurement - product innovation Activity: Assignment, Seminar
World Economic Resources	22PIB2E4	Skill Development : Interlink between resources and trade,Economic and cultural organization of societies,Green lands,Importance of minerals,software industry Activity: Assignment, Seminar
Introduction to International Business	22PIB2N1	Entrepreneurship: Foreign market operations, Different types of trade blocks,Packing list Activity: Assignment
Research Methodology	21PIB309	Employability : EM:Research Design, Sampling - Importance , Tabulation, Steps in writing the research report Activity: Assignment
Export Import Finance	21PIB310	Skill Development : Client Informtaion, Availability of Finance, Exports credits, Bulk Import Finance Activity: Case Studies

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Foreign Exchange Management	21PIB311	Employability :Foreign currency accounts -Features of forward exchange contract - Future contract and option contract - Arbitrage operations Activity: Case Studies, Power Point Presentations
System Application for International Business	21PIB312	Employability :Borders & Shading,Organization Chart, Microsoft Teams, Packing List Activity : Power Point Presentation, Group Task
International Economics	21PIB1E5	Employability : Volume of trade and demand pattern - Exchange control - international capital movements - International debt problem Activity: Case Studies
Trends in E - Commerce	21PIB1E6	Skill Development : Internet Commerce, Categories of e - services, EDI Implentation, Protecting Web server with a Firewall,Basic Ethical Concepts Activity: Case Studies
Global Risk Management and Insurance	21PIB413	Employability : Risk financing techniques, Introduction to General Insurance, Policies For stocks ,Fidelity Guarantee Insurance Activity: Case Studies
Customs Law and Practices	21PIB414	Skill development : Concessions to Small Scale Industry under Central Excise Act,Canalized Exports., ,Registration of Dealers,Rate Calculation in GST Activity: Seminars, Assignments
Global Financial Management	21PIB415	Employability: European monetary system, Foreign bonds, Multinational capital budgeting, Bank Facilities for NRI Activity: Assignment,Power Point Presentations

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Customs Compliance for Managers	21PIB416	Skill development :Structure of the HS code, Types of Customs duty,Marking of Containers Activity : Power Point Presentation, Group Task
International Human Resource Management	21PIB4E7	Entrepreneurship : Strategies for International HRM,Use of Selection Test,Management Development Method,Factors affecting Appraisal Activity: Seminars, Assignments
International Strategic Management	21PIB4E8	Entrepreneurship : Stakeholders in Business, Globalisation and Industry Structure, Balance Score Card, Control System, New Business Models Activity: Seminars, Assignments
Field Research Project	21PIB4FP1	Skill development :Candidates should undergo specific field or institutions and work in any of the functional area of their choice with core theme of international business . Activity: Project Report
Principles of Accounting	22UIB101	Skill Development:Basic Concepts and Conventions of Accounting Sales Book Petty Cash Book. Drawing both in cash and goods Fixed Installment Method. Activity: Assignments
Modern Marketing	22UIB102	Entrepreneurship: Functions And Requisites Of Good Packaging Types of Pricing Decisions Factors Affecting Choice Of Distribution Channels, Types of Promotion, Market Repositioning. Activity: Seminar

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Management Concept for International Business	22UIB1A1	Employability:Development of Scientific Management and other Schools of thought and approaches,Factors Affecting Decision Making,Formal and Informal Organisation,Recruitment,Requisites for excellent Coordination Activity: Seminars, Assignments
Cost and Management Accounting	22UIB203	Skill development:Methods of Costing,Methods of Wage Payment,Calculation of Machine Hour Rate, Budgeting Importance Margin of Safety. Activity: Assignments
Export Marketing	22UIB204	Entrepreneurship: Difference between Domestic Marketing and Export Marketing – Functions of WTO ,New Product Activity: Seminar
Global Business Environment	22UIB2A2	Entrepreneurship: Modes of Entry into International Business – Natural factors , Current and Capital account components World Bank (IBRD), European Union. Activity: Seminar, Assignments
Human Resource Development	21UIB305	Skill development: Qualities and Competencies required in a HRD professional, Model of Employee Behaviour,Impact Assessment of HRD initiatives on the bottom Techniques of Training Different Levels,Promoting Research in HRD. Activity: Seminar, Assignments
Banking Law & Foreign Exchange	21UIB306	Employability: CRM in banking - Recurring deposits - Cheques-Essentials Interbank dealings- cover deals- trading- Foreign exchange risk management. Activity: Seminar, Assignments

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Business Statistics	21UIB307	Skill evelopment:Methods of collecting data, Diagrammatic and graphical representation of data, Measures of Skewness, Regression Lines and Coefficients, Utility of Time Series Analysis Activity: Seminar, Assignments
Banking Practice for International Business	21UIB308	Skill development:Know your customer form. Forfeiting of Property. Activity:Form Filing, Documents
Computing Skills for International Business	21UIB3A3	Skill development:Inserting Headers and FooterSharing Data Between Applications SlideColour Schema Saving the DatabaseCreating Reports and Mailing Labels Activity: Record Note
Introduction to International Business	21UIB3N1	Employability: Nature of international business Mergers and Acquisitions GATT and WTO, MNC s and India Arrival Contracts. Activity: Assignment
Tourism Marketing	21UIB3N2	Entrepreneurship:Marketing and societalperspectives,Marketsegmentation andpositioning (STP),Newproductdevelopment, Distributionchannelsandstrategies, Marketing of Tourism Activity: Assignment

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Case Analysis	21UIB409	Employability: role of cases in the current business scenario, practical business and theoretical cases, justifying logistics with practicing institutions, practical supply chain and theoretical cases. Activity: Work Book Review
International Trade Procedures & Documentation	21UIB410	Entrepreneurship: Export management - Export sales Quotation, Export Promotion Councils, Permitted Currencies - GSP Certificate. Activity: Seminar
Indirect Taxation	21UIB411	Entrepreneurship:Taxation under the Constitution Remission on Duty on Lost Structure of GST in India- Concept of Supply - Location of the Recipient and Supplier of Services. Activity: Seminars
Virtual Banking Practical's	21UIB412	Skill development: Individual login registration Other Agencies supporting these recharge Payment wallet, Bankers cheque,Opening of NRI account Activity: Record Note
Economic Analysis	21UIB4A4	Employability: SocialResponsibilities, AnalysisSchedule, Enterprises as a Factor, Pricing under Oligopoly,Marginal Productivity theory Activity: Seminar
Global Logistics	20UIB4N1	Employability: Objectives of business logistics Vehicle Routing& Scheduling: meaning and importance, Appraisal of inventories, Location/Facility Management: Meaning and importance, trends for improved productivity. Activity: Seminar, Assignments



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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Tour Operation Management	21UIB4N2	Entrepreneurship: Method of Taking Care of Customers, Procedure for reservation, Services provided by International Counter, Concept of Tour Itinerary, Rules regarding the foreign exchange transactions. Activity: Seminar, Assignments
Organization Behaviour	20UIB514	Skill development: Trait Theories Sources of Attitude Intergroup relations Political Behaviour in Organisations, Managing Workplace Stress. Activity: Seminar, Assignments
Internship	20UIB515	Employability: Preparation of Internship Report Activity: Work Book Review
Information Security and Executive Communication	20UIB516	Employability: tampering with data Steganography, Modern Communication Methods, Collection Letters, Business Report Presentations. Activity: Seminars, Assignments
Fundamentals of Supply Chain	20UIB517	Skill development: Reverse Supply chain Dimensions of Supply Chain, Types of purchases, New opportunities in SCM outsourcing, The benefits of performance measurement. Activity: Seminars, Assignments
EXIM Documentation Practical's- I	20UIB518	Employability: Registration Cum Membership Certificate (RCMC), Shipment Advice Activity: Record Note
Economic Analysis	21UIB5E1	Employability: Social Responsibilities, Analysis Schedule, Enterprises as a Factor, Pricing under Oligopoly, Marginal Productivity theory Activity: Seminar

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Global Sourcing Management	20UIB5E2	Entrepreneurship: General conditions required for efficient Global Sourcing. sourcing market: China, Product specification for comparable offers, Agreements on default Global Sourcing as a growth booster Activity: Seminar
Personality Building	20UIB5S1	Skill development: Factors influencing in public speaking Do's and don'ts in public speaking, points to be considered in group discussions. Activity: Seminar
Garment Costing	20UIB5S2	Skill development: cost of goods manufactured statements, cost behavior, Capacity level concepts, price/cost analysis, marginal revenue and marginal cost, Budgeting principles for the apparel industry. Activity: Seminars
International Sales Promotion & branding	20UIB619	Employability: Cross-promotions global branding strategies – social & Economical aspects of advertising media evaluation, types of media Activity: Seminars, Assignments
International Finance	20UIB620	Employability: Consignment basis Forfeiting, External Commercial Borrowing). Scheme for Sub-suppliers - EXIM Bank. Activity: Seminars, Assignments
EXIM Documentation Practical's– II	20UIB621	Skill development: For export of goods under claim of DEPB. Activity: Record Note, Observation Note

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
EXIM Management	20UIB6E3	Entrepreneurship: Director General of Foreign Trade and Commerce Role of Logistics in Exports, Cargo Insurance, Export/import financing strategies Inspection Agencies/Surveyors Activity: Seminars
Retail Banking	20UIB6E4	Employability: Approval process for retail loans, credit scoring, products/Remittances/Funds Transfer, Technology for retail banking, online/phone banking, property services, RBI guidelines. Activity: Seminar, Assignments
Skills on Sourcing & Procurement	20UIB6E5	Entrepreneurship: Make Vs Buy make payments for suppliers - importance of logistics partner to know all, Procurement – Transmit needs Negotiations. Activity: Seminar, Assignments
Air Cargo Management	20UIB6E2	Employability: International Air Routes – Airports, ICAO security manual, Marketing Management Control, Consignee controlled cargo, Customs clearance, Handling COD shipments. Activity: Assignments
Intellectual Property Rights	20UIB6S3	Skill development: Importance of IPR– Rights of patent, Coverage, Types of trademarks, Merits and Demerits of Unfair Competition Activity: Assignments
Garment Merchandising	20UIB6S4	Skill development: Market segmentations and Marketing Research, principles and strategies, Importance of consumer perception of apparel quality, Domestic and International sourcing Process, Elements of Visual Merchandising. Activity: Seminar, Assignments

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core - I :Financial Accounting	22UBP101	EM- Fire Insurance Claims - Computation of claim to be lodged for loss of stock- Gross profit ratio
Core - II :Business Management	22UBP102	EM- Leadership- Transformational Leadership – Servant leadership-Transactional leadership
Allied - I :Business Mathematics	22UBP1A1	SD-Arithmetic and Geometric Series – Application to Business Problems
Core - III : Higher Financial Accounting	22UBP203	SD: Hire Purchase and Installment- Hire Purchase Accounting
Core - IV : Accounting and Finance for Corporate	22UBP204	ERP – integrated systems or Enterprise-Resource Planning system IFRS – international financial reporting standards – Introduction – advantages - - International accounting standards board
CORE XIII : Cost Accounting	20 UB P 513	SD: Allocation Apportionment and Absorption of Overheads
CORE XIV: Income Tax	20 UB P 514	SD: Leave encashment Calculation of Tax Liability of Individual
CORE XV : Capital Market For Business Process Services	20 UB P 515	SD: Calculation of Tax Liability of Individual
CORE XVI :Managing Business Processes –I	20 UB P 516	SD: Internet Controls & Audit, ISO Standards (applicable to BPS) /CMMI Certification

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
CORE ELECTIVE-I :Company Law and Secretarial Practice	20UBP5E1/	SD: Articles of Association
/Modern Marketing	20UBP 5E2	SD: Sales- Promotion-Green marketing
CORE XVIII : Management Accounting	20 UBP 618	SD: Sources of Working Capital-Make or Buy Decision
CORE XX :Managing Business Processes – II	20 UBP 620	SD: Transaction Monitoring Cycle – Inspection – Feedback – RCA-SCRUM
CORE ELECTIVE–III:Indirect Taxation	20 UBP 6E5/	SD: Taxes subsumed under State Goods and Services Tax Act 2017- Taxes subsumed under Central Goods and Services Tax Act 2017.
CORE V : Corporate Accounting	21 UBP 305	SD: Valuation of Shares – Need– Methods of Valuing Shares
CoRE VI Commercial Law	21UBP306	SD: Essentials of Valid Tender- Creation of agencies
CORE VII: Insurance For Business Process Services	21UBP307	SD: Concept of Annuity – Types of Annuity – Annuity contract provisions – Annuity :
CORE VIII Supply Chain Management for Business Process Service	21UBP308	SD: Creation of Contract - Negotiate - Determination the Price, Terms and condition approval
CORE IX : Higher Corporate Accounting	21 UBP 409	SD: Life Insurance – Valuation Balance Sheet – Revenue Account –Net Revenue Account and Balance Sheet.
CORE X: Campus to corporate Transition	21 UBP 410	SD: Improving Vocabulary – Improving Writing Skills – Comprehension while interacting face to face.

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
CORE XI : Banking For Business Process Services	21 UBP 411	SD: Cash Management Product Suite A Glance and Brief on all - Products-Payments life cycle-Basics and outline of UCP 600, ISBP, URCCC 522, URR 725,URDG and ISP98
CORE XII: Retail Environment & Market Research	21 UBP 412	SD: Branding - Brand Types - Private Labels - Branding - Brand Types - Private Labels
Core XIII - Cost accounting	20UCF513	EMP:Perpetual Inventory ,Systems of Wage Payment,Process Losses EN:Methods of Absorption of factory Overheads SD:Cost sheet. Activities: Assignments, Seminar
Core XIV - Principles of Insurance	20UCF514	EMP: Functions of Insurance – Fundamental Principles of Insurance – Types of Insurance ,Privitisation of Insurance. EN:Premium and Procedure for Claims SD:Need for insurance ,Procedures for Taking Insurance Policy Activities: Assignments, Quiz
Core XV - Executive Communication &Information security	20UCF515	EMP: Need and Functions of Business Letter, Banking correspondence, Components of communicationsystem, E-commerce security EN:Trade Letters, Sales Letters. SD:Network security, Quotations Activities: Assignments, Quiz
Core XVI - Commerce Practical	20UCF516	SD:Computation of tax liability,Report writing -Sales report,Filling up of cheque leaf, withdrawal slip, pay-in-slip, DD Challan, RTGS , NEFT Activities: Form filling

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Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Core XVII –Goods and Service Taxes	20UCF517	EMP:Taxation under the Constitution EN:GST,Registration procedure under GST. SD: GST Filing of Returns. Activities: Assignments, Group, Discussions
Core Elective I – XIX- Financial Management/ Brand Management	20UCF5E1/E2	EMP: Capital Structure, Techniques of Evaluation of long-term Investment proposal, Cost of Capital Activities: Assignments, Quiz
Fundamentals Of Entrepreneurship	20UCF5S1	EMP:Qualities of an Entrepreneur, EN:Women Entrepreneur, Institutional support to Entrepreneurs Activities: Assignments, Seminar