

COURSE OUT COMES and PROGRAMME OUTCOMES

Department	Semester		Course	Unit 1	Unit 2	Unit 3	Unit 4	
P H Y S I C S	I	Theory	Mechanics and oscillations	Vector analysis	Mechanics of particles	Central forces	Oscillations	
		Lab	Mechanics and oscillations	Exp-1&2	Exp-3&4	Exp-5&6	Exp-7&8	
	II	Theory	Thermal Physics	Kinetic Theory of Gases	Thermodynamics potentials	Quantum theory of radiation	Statistical mechanics	
		Lab	Thermal Physics	Exp-1&2	Exp-3&4	Exp-5&6	Exp-7&8	
	III	Theory	Electro magnetic theory	Electro statistics	Magneto statistics	Electro magnetic induction	Varying and alternating currents	
		Lab	Electro magnetic theory	Exp-1&2	Exp-3&4	Exp-5&6	Exp-7&8	
	IV	Theory	Waves and Optics	Waves	Interference	Diffraction	Polarization	
		Lab	Waves and Optics	Exp-1&2	Exp-3&4	Exp-5&6	Exp-7&8	
	V	Theory	Modern physics	Atomic spectra	Quantum mechanics	Nuclear physics	Solid state physics	
		lab	Modern physics	Exp-1&2	Exp-3&4	Exp-5&6	Exp-7&8	
	VI	Theory	Electronics	Band theory of PN junction	Bipolar junction transistor	Special devices	Digital electronics	
		Lab	Electronics	Exp-1&2	Exp-3&4	Exp-5&6	Exp-7&8	
		I	THEORY	Animal Diversity- Invertebrates	protozoa	cnidaria	anelida	mollusca

ZOOLOGY		Lab	Animal Diversity- Invertebrates	Exp-1&2	Exp-3&4	Exp5&6	Exp 7&8
	II	THEORY	Animal diversity-vertebrates	Hemichordata	Pisces	Reptilia	Aves
		Lab	Animal Diversity- Invertebrates	Exp-1&2	Exp-3&4	Exp5&6	Exp7&8
	III	THEORY	Animal physiology and animal behavior	Digestion	Homeostasis	Muscle Contraction	Animal behavior
		Lab	Animal Diversity- Invertebrates	Exp-1&2	Exp-3&4	Exp-5&6	Exp-7&8
	IV	THEORY	Cell Biology Genetic, and developmental biology	Cell Biology	Molecular Biology	Genetics	Developmental Biology and Embryology
		Lab	Animal Diversity- Invertebrates	Exp-1&2	Exp-3&4	Exp-5&6	Exp-7&8
	V	THEORY	Physiological chemistry and endocrinology/Laboratory Animals Maintenance and Applications/ Immunology and Animal Biotechnology	Biomolecules of importance	Lipids and enzyme classification	Introduction to Endocrinology	Endocrine Glands and their Hormones
		Lab	Animal Diversity- invertebrates	Exp-1&2	Exp-3&4	Exp-5&6	Exp-7&8
	VI	THEORY	Fisheries / Limnology/ Ecology, Zoogeography and Evolution	Introduction to fisheries, aquaculture systems, management practices	Feeding, Breeding and hatchery management of finfish and shellfish	Limnology	Productivity of lakes
		Lab	Animal Diversity- Invertebrates	Exp-1&2	Exp-3&4	Exp-5&6	Exp-7&8

Department	Semester	Course	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5
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Bu sin ess	I	Theory	Business Organization and Management	INTRODUCTION AND FORMS OF BUSINESS ORGANISATION S	JOINT STOCK COMPANY	INTRODUCTION TO FUNCTIONS OF MANAGEMENT	PLANNING AND ORGANISING	AUTHORITY, COORDINATION AND CONTROL
	II	Theory	Business Laws	INDIAN CONTRACT ACT	SALE OF GOODS ACT AND CONSUMER PROTECTION ACT	INTELLECTUAL PROPERTY RIGHTS	MANAGEMENT OF COMPANIES AND MEETINGS	MANAGEMENT OF COMPANIES AND MEETINGS
	III	Theory	Business Statistics-I	INTRODUCTION	DIAGRAMMATIC AND GRAPHIC PRESENTATION	MEASURES OF CENTRAL TENDENCY	MEASURES OF DISPERSION, SKEWNESS AND KURTOSIS	CORRELATION
	IV	Theory	Business Statistics-II	REGRESSION	INDEX NUMBERS	TIME SERIES	PROBABILITY	THEORITCAL DISTRIBUTIONS
	V	Theory	Business Economics	INTRODUCTION	DEMAND ANALYSIS	SUPPLY ANALYSIS	PRODUCTION ANALYSIS	COST AND REVENUEANALYSIS
	VI	Theory	Theory and Practice of GST	INTRODUCTION TO GST	GETTING STARTED WITH GST	RECORDING ADVANCED ENTRIES, GST ADJUSTMENT AND RETURN FILING	GETTING STARTED WITH GST (SERVICES)	RECORDING ADVANCED ENTRIES AND MIGRATION TO ERP

Depa rtme nt	Se m est er		Course	Unit 1	Unit 2	Unit 3	Unit 4
Math emati cs	I	Theory	Differential & Integral Calculus	Partial Differentiation	Theorem on Total Differentials	Curvature & Evolutes	Lengths of plane curves
	II	Theory	Differential equations	Differential equations of first order and first degree	Differential equations of first order but not of first degree	Higher order Linear differential equations	Partial differential equations
	III	Theory	Real analysis	Sequences	Continuity	Differentiation	Integration
	IV	Theory	Algebra	Groups Cyclic groups	Permutation groups	Normal sub groups & factor groups	Ideals and factor rings
	V	Theory	Linear Algebra	Vector spaces	Rank change of basis	Diagonalization	Orthogonalit y & least Squares
	VI(c)	Theory	Analytical Solid Geometry	Sphere	Cones & Cylinders	The right circular cone	The coincide

Department	Semester		Course	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5
Political science	I	Theory	Understanding political theory	Political theory	What is political?	Political values & Theoretical perspective	Political ideologies	Political institutions & Functions
	II	Theory	Western political Thought	Greek political thought	Medieval & Early modern thought	Social Contractualists	Utilitarian Thought	Philosophy of Dialectics
	III	Theory	Indian Political Thought	State & society in Ancient India	Medieval political Thought	Renaissance Thought	Reformist Thought	Socialist Thought
	IV	Theory	Constitution & politics of India	Constitutional Development in India	Institutional Framework	Federal Politics	Electoral Politics in India	Issues in Indian Politics
	V	Theory	Politics of Development	Development: Meaning ,Nature, Importance	Development Debates	State & Development in India	Issues of Development in the post-Economy Reformer s period	-
	V(A)	Theory	International Relations	International Relations- Nature ,Evolution & scope ;State & Non-state Actors in IR, west	European conquest of Asia and Africa	Cold war :détente,end of the cold war disintegration of the soviet union American hegemony	India's Foreign policy determinants ;features: Non Alignment	India's relations with USA:China: Pakistan;Srilanka and Nepal
	V(B)	THEORY	Government & Politics in Telangana	State Politics	States Reorganization in India	Demand for separate Telangana	Politics of formation of Telangana	Formation of Telangana
	VI(A)	Theory	Global politics	Power, Elements of power ,Balance of power , Growing Importance of Soft power	Security, Collective Security, Bipolarity, Multipolarity, Unipolarity	Human Rights; Agencies of human rights; protection Terrorism, Environmental Issues	World Bank & IMF;UNC TAD;North –South Dialogue and south-south Co-operation s;WTO	Disarmament, Arms Race, Arms control,NPT, CTBT,MTCR proliferation of small Arms, WMDs
	VI	Theory	Contemporary political Theory	Liberal Theory	Neo Marxist theory	Feminist Theory :I	Feminist theory:II	

Department	Semester		Course	Unit 1	Unit 2	Unit 3	Unit 4
TELU GU	I	Theory	సాహితీ మంజీర	పాదాన కవిత్వం	ఆధునిక కవిత్వం	వచన విభాగం	భాషాభాగాలు - వ్యాకరణం , నానాల్గాలు, సంధులు, సమాసాలు, తెలుగు వాక్యం
	II	Theory	సాహితీ మంజీర	పాదాన కవిత్వం	ఆధునిక కవిత్వం	వచన విభాగం	చందస్సు ఉత్పలమాల, చంపకమాల, శార్దూలం, మత్తేభం, ఆటవెలది, తేటగీతి, దీపద, సీసం, కంఠం, ఉత్సాహం, తరళం, శ్రగ్గర, మహా శ్రగ్గర, ముత్యాలసారం.
	III	Theory	సాహితీ కిన్నెర తెలుగు వాచకం	పాదాన పద్యభాగం	ఆధునిక పద్యభాగం	అలంకారాలు శబ్దాలంకారాలు: వృత్తానుపరాస, చేకానుపరాస, లాటానుపరాస, అంత్యనుపరాస, యమకం, ముక్తపదగ్రస్తాలంకారం. అర్థాలంకారాలు: ఉపమా, ఉత్పేక్ష, రూపక, స్వభావక్తి, ఉల్లేఖ, అర్థంతన్యాస	----- ----
	IV	Theory	సాహితీ కిన్నెర తెలుగు వాచకం	పాదాన పద్యభాగం	ఆధునిక పద్యభాగం	వచన విభాగం	-----
	V	Theory	తెలుగు సాహితీ దుంధీబి	కవితా ప్రక్రియలు	తెలుగు వ్యాసం	వచన సాహిత్యం	----- -
	VI	Theory	తెలుగు సాహితీ దుంధీబి	సాహిత్య ప్రక్రియల పరిచయం	జర్నల్ లిజంలో మౌలికాంశాలు	అధ్యయన పరికల్పన నివేదిక - పాఠాభివృద్ధి పరిచయం	----- -----

Department	Semester	Theory/Lab	Course	Unit 1	Unit 2	Unit 3	Unit 4
Botany	I	Theory	Microbial Diversity And Lower Plants	Bacteria Viruses And Plant Diseases	Classification of Algae	Classification of Fungi	Bryophytes, Pteridophytes
		Lab		1 Study of Viruses and Bacteria Diseases of Bacteria Mycoplasma	Identification of Fungi Pathogens Morphology of Lichens	Importance of Microbial ,Fungi And Algal	Study of Morphology And Anatomy of Bryophytes And Pteridophytes
	II	Theory	Gymnosperms ,Taxonomy of Angiosperms And Ecology	Gymnosperms Palaeobotany	Classification of plant Taxonomy	Systematic Study of Families	Ecology
		Lab		Study of Morphology Pinus And Gnetum	Anatomy of Pinus And Gnetum Fossil Forms	Study of Morphology Local Plant	Herbarium Techniques
	III	Theory	Plant anatomy and Embryology	Tissues and Tissue system	Anatomy of Stem and Root	History and Importance of Embryology	Pollination and Fertilization and Seed Technology
		Lab		Demonstration of Double Staining Technique	Anatomy of Root and Stem Anatomy of Xerophytes	Structure of anther and microsporangia	Pollen viability test
	IV	Theory	Cell Biology, genetics and Plant Physiology	Cell Biology	Genetics	Plant Physiology	Plant Physiology Nitrogen Metabolism
		Lab		Demonstration of Cytochemical methods Study of various stages of Mitosis (Onion root Tips)	Study of special types of Chromosomes Mendel 's laws	Chromosome mapping using Test cross data	Determination of Osmotic potential
	V	Theory	Plant Tissue Culture and Bio Technology	Plant Tissue Culture	Applications of tissue culture	Bio technology	Gene Libraries Application of transgenics
		lab		Major Experiments Isolation of Plant DNA	Minor Experiments Callus Induction anther culture	PCR Demonstration Study of Bio technology products	Spotting Study of anther , Embryo and Endosperm
	VI	Theory	Plant Molecular Biology	Nucleic acids	Nucleosome Chromatin structure Replication of DNA	Mechanism of Transcription	Translation in Prokaryotes
		Lab		Isolation of Genomics DNA from E-coli	Estimation by Diphenylamine Reagent	Photographs Establishing nucleic acid and has genetic material	Estimation of Size of a DNA Markers

Department	Semester		Course	Unit 1	Unit 2	Unit 3	Unit 4
Chemistry	I	Theory	Chemistry -I	Inorganic Chemistry	Organic chemistry	Physical Chemistry	General Chemistry
		Lab	Qualitative Analysis(semi micro analysis of mixtures)	2 Anions 2 Cations	2 Anions 2 Cations	2 Anions 2 Cations	2 Anions 2 Cations
	II	Theory	Chemistry –II	Inorganic Chemistry	Organic chemistry	Physical Chemistry	General Chemistry
		Lab	Quantitative Analysis	Acid – Base Titrations	Acid – Base Titrations	Redox Titrations	Complexometric Titrations
	III	Theory	Chemistry-III	Inorganic Chemistry	Organic chemistry	Physical Chemistry	General Chemistry
		Lab	Organic synthesis	Acetylation	Halogenation	Oxidation Diazotisation	Microwave Assisted Synthesis of Aspirin (DEMO)
	IV	Theory	Chemistry -IV	Inorganic Chemistry	Organic chemistry	Physical Chemistry	General Chemistry
		Lab	Analysis of Organic compounds	Functional group analysis of Phenols	Functional group analysis of Amines	Functional group analysis of Aldehydes	Functional group analysis of Ketones
	V	Theory	Chemistry-V Spectroscopy & Chromatography	Molecular Spectroscopy	NMR & Mass Spectrometry	Separation Techniques -1	Separation Techniques - 2
		lab	Experiments in Physical Chemistry-I	Distribution law	Electrochemistry	Colorimetry & Adsorption	Physical Constants
	VI	Theory	Chemistry-VI Medicinal Chemistry	Introduction & Terminology	Enzymes & Receptors	Synthesis & Therapeutic Activity of Drugs	Molecular Messengers ,Vitamins & Micronutrients
		Lab	Experiments in physical Chemistry -II	Kinetics	Electrochemistry Potentiometry	Electrochemistry pH metry	Conductometry

De partment	Se mester		Course	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5
Co mputer Applications	I	Theory	Fundamental of information technology	Introduction to computers	Computer arithmetic & Storage fundamentals	Software	Operating system	Data communication
		Lab		MS-DOS	MS-WORD	MS-POWERPOINT	MS-EXCEL	NETWORKING
	II	Theory	Programming with c & C++	Introduction to c language variables, data types and operators	Working with control statements, loops	Functions, arrays and strings	Pointers, structures and unions	Object oriented
		Lab		PROGRAMM 1-5	PROGRAMM 6-10	PROGRAMM 11-15	PROGRAM M 16-20	PROGRA MM21-25
	III	Theory	Relation Database management system	Basic concepts	Database integrity and Normalisation	Structures query language	Transactions and concurrency management	Distributed and client server databases
		Lab		PROGRAMM 1-5	PROGRAMM 6-10	PROGRAMM 11-15	PROGRAM M 16-20	PROGRA MM21-25
	IV	Theory	Web Technologies	Introduction	An over view of dynamic web pages & dynamic web page	Java script	Events and event handlers	Extensible markup language
		Lab		PROGRAMM 1-5	PROGRAMM 6-10	PROGRAMM 11-15	PROGRAM M 16-20	PROGRA MM21-25
	V	Theo y	E Commerce(c) mobile application	Introduction	Framework of E-Commerce	Consumer oriented E-Commerce applications	Electronic data interchange	E-Marking techniques
		lab		PROGRAMM 1-5	PROGRAMM 6-10	PROGRAMM 11-15	PROGRAM M 16-20	PROGRA MM21-25
	VI	Theory	Cyber Security	Introduction to cyber security, cyber security vulnerabilities and cyber security safeguards	Securing web application, services and servers	Intrusion detection and prevention	Cryptograp hy and network security	Cyberspa ce and the law, cyber forensics
		Lab		PROGRAMM 1-5	PROGRAMM 6-10	PROGRAMM 11-15	PROGRAM M 16-20	PROGRA MM21-25

Department	Semester		Course	Unit 1	Unit 2	Unit 3	Unit 4
Computer Science	I	Theory	Programming in C.	Computer Fundamentals, Basics of C.	Input-Output, Arrays and Strings.	Functions, Pointers.	User-defined Data Types, Files.
		Lab	Programs	Programs 1 to 4.	Programs 5 to 8.	Programs 9 to 12	Programs 13 to 16.
	II	Theory	Programming in C++.	Introduction to C++, Object Oriented Programming.	Classes, Constructors	Inheritance, Polymorphism, C++ Streams	Exceptions, Templates
		Lab	Programs	Programs 1 to 4.	Programs 5 to 8.	Programs 9 to 12	Programs 13 to 16.
	III	Theory	Data Structures	Fundamental Concepts, Linear Data Structure Using Arrays Stacks	Recursion, Queues, Linked Lists.	Trees, Graphs.	Searching and Sorting, Heaps.
		Lab	Programs	Programs 1 to 4.	Programs 5 to 8.	Programs 9 to 12	Programs 13 to 16.
	IV	Theory	Data Base Management System.	Introduction to Databases, Relational Model.	Introduction, Data Manipulation, Advanced SQL.	Entity–Relationship Modeling, Functional–Dependencies.	Transaction Management, Security.
		Lab	Programs	Programs 1 to 6.	Programs 7 to 12.	Programs 13 to 19.	Programs 20 to 26.
	V	Theo y	Program ming in Java.	Java Essentials, Constructors, this Keyword	Inheritance, Abstract classes, Wrapper Classes.	Multithreading, Input/Output.	Event Handling, Database Handling Using JDBC.
		lab	Programs	Programs 1 to 4.	Programs 5 to 8.	Programs 9 to 12	Programs 13 to 16.
	VI	Theory	Web Technologies	Structuring Documents for the Web, Tables.	Cascading Style Sheets, Page Layout.	Learning JavaScript, Working with JavaScript, Putting Your site on the web.	XML, Ajax-Enabled Rich Internet Applications.
		Lab	Programs	Programs 1 to 5.	Programs 6 to 10.	Programs 11 to 14.	Programs 15 to 18.

Department	Semester	Course	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5
ec on om ics	I	MICRO ECONOMI CS	Consumer Behaviour	Production analysis	Cost and revenue analysis	Market structure: imperfect competition	Analysis of business firm, profit and pricing strategies
	II	MACRO ECONOMI CS	Introduction	Theories of income and employment	Investment & Theories of interest rate	Supply of money & demand of money	Inflation & trade cycles
	III	STATISTIC S FOR ECONOMI CS	Introduction to statistics	Measures of central tendency and dispersion	Correlation and regression	Index numbers	Analysis of time series
	IV	INDIAN ECONOM Y	Structure of the Indian economy	Indian agriculture	Indian industry and services	NIIT AAYOG	
	V	AGRICULT URAL ECONOMI CS	Module-I: nature and scope of agricultural economic	Module -II: concept of production	Module-III: growth and productivity trends in Indian agriculture	Module-IV: systems of farming	Model-v: emerging trends in production , processing marketing ,and exports
	Vi	INTERNAT IONAL ECONOMI CS	Theories of international trade	Function Trade and growth	Tariff and non-tariff barriers to trade	Balance of payments	Internal factor movements

Departme nt	Se me ste r		Course	Unit 1	Unit 2	Unit 3	Unit 4
HIND HI	I	Theory	UNIT-1	CHARITRA SANGATHAN	BHAABHI	SADGATI	CORRECTION OF SENTENCE
	II	Theory	UNIT-2	DHARTI KA SWARG	RAJNEETI KA BANTWARA	GADAL	SANDHI VICHCHED
	III	Theory	UNIT-3	KABEER KE DOHE	AADI KAAL: NAAMKARAN, PARISTHITIYAAN,PRAVRIT TIYAAN	SAHITYA AUR SAMMAJ	
	IV	Theory	UNIT-4	RAHEEM KE DOHE	REETHI KAAL:NAAMKARAN, PARISTHITIYAAN, PRAVRITTIYAAN	VIDYARTHI AUR ANUSHAASAN	

	V	Theory	UNIT-5	HINDHI BHASHA KE VIVIDH ROOP	ANUVAADH	SAHITHYU KEE VIVIDH VIDHAVO KAA PARICHAY	
	VI	Theory	UNIT-6	JANSANCHAA R KA MADHYAM	PATHRUKAARITHAA KAA ARTH, PARIBHAASHA YEVAM SWAROOP	HINDHI SAHITHYU ME VIVIDH VIMARSH	

De par tm ent	Se me ste r	Course	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5
HIS TO RY	I	HISTORY OF INDIA	Module –I: definitions : nature and scope of history	Module-II: Indus valley civilizations	Module -III: rise of new religious movement s	Module –Iv : foundati on of the maurya n dynasty	Module – v: Gupta Empire :A brief political survey
	II	HISTORY OF INDIA	Module-I:the age of Rajputs society	Module-II Arab conquest of sind Ghaznavids and ghories	Module-III: Bhakti and sufi movement s	Module- IV: kakatiya s -polity- administ ration	Module- v: vijayanag ara –a brief survey of political history
	III	HISTORY OF INDIA	Module- I:establishe ment of Mughal Dynasty	Module-II: rise of regional powers	Module-III: advent of European powers	Module –IV: three stages of coloniali sm	Module- v: decline of rural cottage industries and urban handicraf ts
	IV	HISTORY OF INDIA	Module-I: Queen’s proclamation	Module-II: socio- religions reform movements	Module-III: factors of the rise of nationalism	Module IV: Revoluti onary movem ent	Module- v: emergenc e of communa l politics and mohd ali jinnah
	V	HISTORY OF THE MODERN WORLD	Decline of medieval socio-political	Age of revolutions	Rise of capitalism	World betwe en 1914- 1945 rivalry among colonial powers imperial ist hegemo ny	Causes and conse quences of second world war

VI	HISTORY AND CULTURE OF TELANGANA	Sources –pre – history of Telangana	Foundation of asaf jahi dynasty	Political developments in Hyderabad state 1900 to 1942	Anti –nizam and anti feudal movements	Discrimination , dissent and protest S
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Department	Semester	Theory/ Lab	Course	Unit 1	Unit 2	Unit 3	Unit 4
Physics	I	Theory	Mechanics and oscillations	Vector analysis	Mechanics of particles	Central forces	Oscillations
		Lab	Mechanics and oscillations	Exp-1&2	Exp-3&4	Exp-5&6	Exp-7&8
	II	Theory	Thermal Physics	Kinetic Theory of Gases	Thermodynamics potentials	Quantum theory of radiation	Statistical mechanics
		Lab	Thermal Physics	Exp-1&2	Exp-3&4	Exp-5&6	Exp-7&8
	III	Theory	Electro magnetic theory	Electro statistics	Magneto statistics	Electro magnetic induction	Varying and alternating currents
		Lab	Electro magnetic theory	Exp-1&2	Exp-3&4	Exp-5&6	Exp-7&8
	IV	Theory	Waves and Optics	Waves	Interference	Diffraction	Polarization
		Lab	Waves and Optics	Exp-1&2	Exp-3&4	Exp-5&6	Exp-7&8
	V	Theory	Modern physics	Atomic spectra	Quantum mechanics	Nuclear physics	Solid state physics
		lab	Modern physics	Exp-1&2	Exp-3&4	Exp-5&6	Exp-7&8
	VI	Theory	Electronics	Band theory of PN junction	Bipolar junction transistor	Special devices	Digital electronics
		Lab	Electronics	Exp-1&2	Exp-3&4	Exp-5&6	Exp-7&8

ZO OL OG Y	I	THEOR Y	Animal Diversity- Invertebrates	protozoa	cnidaria	anelida	mollusca
		Lab	Animal Diversity- Invertebrates	Exp-1&2	Exp-3&4	Exp5&6	Exp 7&8
	II	THEOR Y	Animal diversity- vertebrates	Hemichordata	Pisces	Reptilia	Aves
		Lab	Animal Diversity- Invertebrates	Exp-1&2	Exp-3&4	Exp5&6	Exp7&8
	III	THEOR Y	Animal physiology and animal behavior	Digestion	Homeostasis	Muscle Contraction	Animal behavior
		Lab	Animal Diversity- Invertebrates	Exp-1&2	Exp-3&4	Exp-5&6	Exp-7&8
	IV	THEOR Y	Cell Biology Genetic, and developmental biology	Cell Biology	Molecular Biology	Genetics	Developmental Biology and Embryology
		Lab	Animal Diversity- Invertebrates	Exp-1&2	Exp-3&4	Exp-5&6	Exp-7&8
	V	THEOR Y	Physiological chemistry and endocrinology /Laboratory Animals Maintenance and Applications/ Immunology and Animal Biotechnology	Biomolecules of importance	Lipids and enzyme classification	Introduction to Endocrinology	Endocrine Glands and their Hormones
		Lab	Animal Diversity- invertebrates	Exp-1&2	Exp-3&4	Exp-5&6	Exp-7&8
	VI	THEOR Y	Fisheries / Limnology/ Ecology, Zoogeography and Evolution	Introduction to fisheries, aquaculture systems, management practices	Feeding, Breeding and hatchery management of finfish and shellfish	Limnology	Productivity of lakes
		Lab	Animal Diversity- Invertebrates	Exp-1&2	Exp-3&4	Exp-5&6	Exp-7&8

Department	Semester	Theory	Course	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5
Public Administration	I	Theory	Introduction to public Administration	Nature of public Administration	Relationship with other social sciences	Oriental and classical Approaches	Human relations and behavioral approaches	Ecological and social justice approaches
	II	Theory	Development dynamic and emerging trends	Comparative & development administration	New public administration	Market theories	Emerging trends-I	Emerging-II
	III	Theory	Indian administration	Historical background	Union Administration : structure and processes	Center-state relations	Constitutional and other national bodies	Public enterprises in India
	IV	Theory	State administration	State administration : structure and processes	State administrative mechanisms	Emerging Issues	Technology and integrity in government	Control over administration
	V	Theory	Human resource management	Introduction	Human resources	Capacity building	Reforms	Emerging trends
	VI	Theory	Financial and material management	Budget	Financial institution	Parliamentary financial committees	Materials management	s

Department	Semester	Course	Unit 1	Unit 2	Unit 3	Unit 4
Statistics	I	Descriptive Statistics and Probability	Descriptive Statistics: Concept of primary and secondary data.	Probability: Basic concepts in probability	Random Variables:	Mathematical Expectation:
	II	Probability Distributions	Discrete distributions – I : Uniform and Bernoulli distributions	Negative binomial, Geometric distributions	Continuous distributions – I : Rectangular and Normal distributions	Continuous distributions – II : Exponential, Gamma :
	III	Statistical Methods	Bivariate data, scattered diagram,	Concepts of partial and multiple correlation coefficients	Concepts of population, parameter, random sample	Statement of Neyman's Factorization theorem,
	IV	Inference	Concepts of statistical hypotheses	Large sample tests for single sample mean	Tests of significance based on χ^2 - χ^2 -test for specified variance,	Non-parametric tests- their advantages and disadvantage

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	V	Applied Statistics - 1	Sample Survey	Sampling Method	Time Series	Statistical Quality Control
	VI	Applied Statistics - 2	Analysis of Variance & Design	Principle of experiments	Vital statistics	Indian official statistics

Department	Semester		Course	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5
Accounts	I	Theory	Financial Accounting-I	ACCOUNTING PROCESS	SUBSIDIARY BOOKS	BANK RECONCILIATION STATEMENT	RECTIFICATION OF ERRORS AND DEPRECIATION	FINAL ACCOUNTS
	II	Theory	Financial Accounting-II	BILLS OF EXCHANGE	CONSIGNMENT ACCOUNTS	JOINT VENTURE ACCOUNTS	ACCOUNTS FROM INCOMPLETE RECORDS	ACCOUNTING FOR NON-PROFIT ORGANIZATIONS
	III	Theory	Advanced Accounting	PARTNERSHIP ACCOUNTS-I	PARTNERSHIP ACCOUNTS-II	ISSUE OF SHARES, DEBENTURES, UNDERWRITING AND BONUS SHARES	COMPANY FINAL ACCOUNTS AND PROFIT PRIOR TO INCORPORATION	VALUATION OF GOODWILL AND SHARES
	IV	Theory	Income Tax/Excel Foundation	INTRODUCTION	INCOME FROM SALARIES	INCOME FROM HOUSE PROPERTY	PROFITS AND GAINS OF BUSINESS OR PROFESSION	CAPITAL GAINS AND INCOME FROM OTHER SOURCES
	V	Theory	Cost Accounting	INTRODUCTION	MATERIAL	LABOUR AND OVERHEADS	UNIT AND JOB COSTING	CONTRACT AND PROCESS COSTING
	VI(A)	Theory	Cost Control and Management Accounting	INTRODUCTION TO MANAGEMENT ACCOUNTING & MARGINAL COSTING	BUDGETARY CONTROL AND STANDARD COSTING	TECHNIQUES OF FINANCIAL STATEMENT ANALYSIS	FUNDS FLOW ANALYSIS	CASH FLOW ANALYSIS (AS-3)

Department	Semester	Course	Unit 1	Unit 2	Unit 3
ARABIC	I	Classical Prose, Grammar & History of Arabic Literature	Classical Prose	Grammar	History of Arabic Literature

	II	Classical Prose, Grammar & History of Arabic Literature	Classical Prose	Grammar	History of Arabic Literature
	III	: Classical Prose, Grammar & History of Arabic Literature	Classical Prose :	Grammar :	History of Arabic Literature :
	IV	Classical Prose, Grammar & History of Arabic Literature	Classical Prose :	Grammar :	History of Arabic Literature

Physical science	I	(environmental science)
	II	(basic computer skills)
	III	(safety rules in chemistry laboratory and lab reagents)(Remedial methods for pollution drinking water and soil fert. Standards)(python-1)(operating system-1)
	IV	(materials and their applications)(chemistry of cosmetics& food processing)(python-2)(operating systems-2)
	v	(Indian constitution and administration)
	VI	(Nano science)(operations research)
Social science	I	Environmental science
	II	Basic computer system skill
	III	Public office administration-rural development
	IV	Technology and office administration-entrepreneurship and development
	V	Business economics
	VI	Financial economics
Life science	I	Environmental science
	II	Basic computer skills
	III	Safety rules in chemistry laboratory and lab reagents-remedial methods for pollution drinking water and soil fert standards
	IV	Vermiculture -chemistry of cosmetics & food processing)
	V	Indian constitution and administration
	VI	Tools and techniques in biology

commerce	I	Environment science
	II	Basic computer skill
	III	Principles of insurance –practice of life insurance
	IV	Practice of general insurance –regulation of insurance business
	V	Business economics
	V	Project report9(record and viva-voice

Department	Semester	Course	Unit 1	Unit 2	Unit 3	Unit 4
English	I	LANDSCAPE	A Small scale reflection on a great house	The connoisseur	Essay: of truth	Drama: the Marriage proposal
	II	LANDSCAPE	Poem: if	Prose: the child	Essay: the man who redefined digital age	Drama: trifles
	III	ENGSCRIBE	POEM: The gift of India	Prose: too dear	Essay: the Narmada	
	IV	ENGSCRIBE	Poem: "hope" is the thing with feathers	Prose: Subha	Essay: India's Message to the world	
	V	English in Action	Poem: Ecology	Poem: Girl	Review writing: Film Review, Book Review	
	VI	English in Action	Poem: Roald Dahl "Television"	Poem: Elizabeth Relph Mertz "Accomplishment"	CV Writing: Chronological CV, Functional CV.r	