



## Government Degree College, Mahabubabad

ESTD: 1984

Affiliated to Kakatiya University Accredited by NAAC & ISO  
9001:2015 Certified

(Mahabubabad, Mahabubabad (Dist.), Telangana-506101).

Website: <https://gdcts.cgg.gov.in/mahabubabad.edu> e-Mail: [wgl.jkc.mbad@gmail.com](mailto:wgl.jkc.mbad@gmail.com)



### DEPARTMENT OF BOTANY

S.No	PAPER	NUMBER	COURSE OUTCOME
01	<b>SEMESTER -I</b> <b>TITLE:</b> <b>MICROBIAL DIVERSITY OF LOWER PLANTS</b>	<b>CO1</b>	To gain knowledge about microbial diversity
		<b>CO2</b>	To have the ability to utilize the concept of mushroom cultivation.
		<b>CO3</b>	To understand the phylogeny of plants.
		<b>CO4</b>	To know about various plant diseases and their control measures.
		<b>CO5</b>	To understand life cycles of different algal species.
		<b>CO6</b>	To explore economic importance of algae & fungi.
		<b>CO7</b>	To know the evolution of sporophytes in bryophytes.
		<b>CO8</b>	To understand the stelar evolution and seed formation habit in pteridophytes.
02	<b>SEMESTER -II</b> <b>TITLE:</b> <b>GYMNOSPERMS, TAXONOMY OF ANGIOSPERMS AND ECOLOGY</b>	<b>CO1</b>	To gain knowledge about life cycles of gymnosperm plants.
		<b>CO2</b>	To explain about fossils and fossilization.
		<b>CO3</b>	To understand about geological time scale.
		<b>CO4</b>	To recognize the major groups of vascular plants and their phylogenetic relationships.
		<b>CO5</b>	To gain proficiency in the use of keys and identification manuals to identify any unknown plants to species level.
		<b>CO6</b>	To understand ecological relationships between organisms and their environment.
		<b>CO7</b>	To identify diversity of life forms in an ecosystem.
		<b>CO8</b>	To understand the role that biodiversity plays in conservation science.

		<b>CO9</b>	To gain knowledge about life cycles of gymnosperm plants.
03	<b>SEMESTER -III</b> <b>TITLE:</b>	<b>CO1</b>	To gain knowledge of plant cells, tissues and their functions.
	<b>PLANT ANATOMY AND EMBRYOLOGY</b>	<b>CO2</b>	To make connections between plant anatomy and the other major disciplines of biology.
		<b>CO3</b>	To identify and compare structural differences among different taxa of vascular plants.
		<b>CO4</b>	To know the structure and development of monocot and dicot embryos.
		<b>CO5</b>	To compare the function and morphology of pollen grains.
		<b>CO6</b>	Describe and illustrate modern and fossil spores and pollen grains.
04	<b>SEMESTER -IV</b> <b>TITLE:</b> <b>CELL BIOLOGY, GENETICS &amp; PLANT PHYSIOLOGY</b>	<b>CO1</b>	To explain the structure of Cell components and their functions.
		<b>CO2</b>	To describe cell division in plants.
		<b>CO3</b>	To have knowledge of the nature and function of genes, processes of inheritance.
		<b>CO4</b>	To describe linkage, crossing over and mutations.
		<b>CO5</b>	To understand plant physiological processes and metabolism.
		<b>CO6</b>	To explain the role of micro nutrients in plant growth and development.
		<b>CO7</b>	To relate photosynthesis with the formation of primary and secondary metabolites.
	<b>CO8</b>	To clarify the mechanism and breaking of dormancy.	
05	<b>SEMESTER -V</b> <b>TITLE:</b> <b>BIODIVERSITY &amp; CONSERVATION</b>	<b>CO1</b>	To have the knowledge of elements of environment.
		<b>CO2</b>	To understand the importance of Climatic factors like light, temperature, in related to growth of plant.
		<b>CO3</b>	To know how to conserve the threatened plants in environment.
06	<b>SEMESTER –VI</b> <b>TITLE:</b> <b>TISSUE CULTURE AND BIOTECHNOLOGY.</b>	<b>CO1</b>	To explain the main techniques of in vitro culture of plant cells & tissues.
		<b>CO2</b>	To know the methods used for the bio-production of plant secondary metabolites.
		<b>CO3</b>	To know the main techniques of genetic manipulation of plant organisms.
		<b>CO4</b>	To Know the Process of various metabolic activities in plant body

		<b>CO5</b>	To know about various methods in tissue culture
		<b>CO6</b>	To know the importance of tissue culture and biotechnology
		<b>CO7</b>	To know the applications of biotechnology.

## DEPARTMENT OF CHEMISTRY

S.No	PAPER	NUMBER	COURSE OUTCOME
1	CHEMICAL BONDING	C01	To know about the Ionic solids, Lattice energy and solubility of Ionic solids.
		C02	To know about the Fajan's rule, polarity and polarizability of ions .
		C03	To know about Hybridization, Shapes of molecules and Molecular Orbital Theory.
2	P-BLOCK ELEMENTS 1	C01	To know about the Diborans, Boran Nitrogen Compounds
		C02	To know about the Carbides and Silicones
		C03	To gain the knowledge on Nitrides, Reactivity-hydrolysis, Reactions of hydrazine, hydroxyl amine and phosphazenes.
3	STRUCTURAL THEORY IN ORGANIC CHEMISTRY	C01	To acquire the knowledge on Bond polarization, Applications of inductive effect
		C02	To know about stability of Carbo cations, Carbanions and free radicals.
		C03	To gain knowledge on Hyper conjugation and its applications.
4	ATOMIC STRUCTURE AND ELEMENTARY QUANTUM MECHANICS	C01	To know about Black body Radiation, Heat capacities of solids
		C02	To gain knowledge about photoelectric effect, Compton effect, Debroglies Hypothesis
5	ISOMERISM	C01	To know about classification of Isomers, Representation of Stereoisomers
		C02	To gain knowledge on conformational and configurational Isomers
6	CHEMISTRY OF D-BLOCK ELEMENTS	C01	To know about the characteristic Properties of d-block elements
		C02	To gain knowledge about the comparison of

			Ti,Cr,Cu Triads
7	CARBONYL COMPOUNDS	CO1	To know the Physical and chemical properties of aldehydes and ketones
		CO2	To differentiate the aldehydes and ketones based on reaction with Tollens, Fehlings Reagents
8	ELECTROCHEMISTRY	CO1	To know the conduction in metals and electrolytic solutions, Types of Conductances
		CO2	To acquire knowledge on migration of ions & Kohlrausch law, Debye-Huckel Onsager equation, Transport number
		CO3	To gain knowledge on Electrolytic & Galvanic cells, EMF, Types of Reversible Electrodes
9	DILUTE SOLUTIONS & COLLEGIATIVE PROPERTIES	CO1	To know about Dilute solutions, Relative lowering of vapour pressure, Osmotic pressure
		CO2	To gain knowledge on Elevation in boiling point & Depression in freezing point
10	COORDINATION COMPOUNDS	CO1	To know the simple inorganic molecules & coordination complexes, Nomenclature-IUPAC Rules, Coordination no, Types of Ligands
		CO2	To gain knowledge on Werner theory, Valence bond theory, Crystal field Theory
		CO3	To know about isomerism in coordination compounds
11	AMINES, CYANIDES & ISOCYANIDES	CO1	To know the classification of Amines, Preparation methods of Amines
		CO2	Hinsberg separation method of Amines, Diazonium salts Preparation & Properties
		CO3	To gain knowledge on preparation and properties of cyanides and Isocyanides

12	THERMODYNAMICS	CO1	To know about First law of Thermodynamics, Thermodynamic quantities, sign convention problem on first Law
		CO2	To gain knowledge on Heat capacities at constant pressure & volume
		CO3	To know about Second law of

			Thermodynamics,Carnot theorm,Carnot cycle
		<b>CO4</b>	To know about Entropy,Enthalphy changes,Gibbs equations and Maxwell Relations
13	<b>CHROMATOGRAPHY</b>	<b>CO1</b>	To know about solvent Extraction,Classification of Chromatographic methods
		<b>CO2</b>	To gain knowledge briefly about Thin Layer ,Column,Paper chromatographic Techniques
		<b>CO3</b>	To acquire knowledge about Ion Exchange,Gas,High Performance Liquid Chromatography Techniques
14	<b>MEDICINAL CHEMISTRY</b>	<b>CO1</b>	To know about Diseases,Terminology in medicinal Chemistry,Drugs,ADME
		<b>CO2</b>	To gain knowledge on Enzymes and Receptors
		<b>CO3</b>	To acquire Knowledge on Synthetic and Therapeutic Activity of Drugs

## DEPARTMENT OF COMMERCE

S.No	Year / Semester	Subject/Course	Subject/Course Outcome
01	B.Com I Year / I Semester	Financial accounting I	To understand the importance of accounting and preparation of final accounts
02		Business Organisation and Management	To understand the importance and types of Business organisation and the principles of management.
03		Fundamentals of Information Technology	To understand the generations of computer technology and introduction to Microsoft Windows
04	B.Com I Year/II Semester	Business Law	To understand the concepts of Business Law, and the provisions relating to Companies Management
05		Financial accounting II	To understand the accounting procedure of different types of business organizations such as consignment and Joint Ventures etc.
06	B.Com II Year/III Semester	Advanced accounting	To understand the Accounting procedure in the companies and
			valuation of goodwill and shares
07		Business statistics	To understand the basic statistical concepts such as measures of central tendency and measures of dispersion and Correlation
08		Income Tax	To understand the Indian Income Tax act and Valuation of Income of an Assessee.
09		Entrepreneur Development and Business Ethics	To understand the characteristics of an entrepreneur, types of entrepreneurs and the various business ethics.
10	B.Com II Year/IV Semester	Business Statistics	To understand the statistical tools like regression, index numbers and probability
11		Corporate Accounting	To understand the accounting procedure of corporate entities.

12		Income Tax	To understand the valuation of income of an Assessee under five heads as per Income Tax Act, 1961.
13		Auditing	To understand the importance of auditing. Vouching, detecting and rectification of errors, valuation of assets and liabilities.
14	B.Com III Year/V Semester	Business Laws	To understand the development of Business Laws , Intellectual Property Rights
15		Banking Theory and Practice	To understand the development of Banking System in India and functions of commercial and central bank.
16		Computerised Accounting	To understand the maintenance of accounts in accounting software such as Tally.
17		Cost Accounting	To understand the importance of Cost Accounting in the industries and different types of cost determination.
18		Consumerism	To understand the rights of the consumer and protection mechanism for consumer rights.
19		Organizational Behaviour	To understand the groups and the behaviour of groups in an organisation. Group dynamics, group conflict management, personality and its traits.
20	B.Com III Year/VI Semester	Commerce Lab	To have a practical exposure to the various components and concepts of commerce.
21		Tax Planning and Management	To understand the importance of tax planning and tax management.
22		Company law	To understand the Company Law 2013. Formation and Management of Companies.



23		Financial Institutions and Markets	To understand the role of Financial Institution and Markets in the development of Indian Economy and structure of Indian Financial System.
24		Managerial Accounting	To understand the importance of usage of Accounts for the managerial decisions. Cash Flow, Funds Flow statements.
25		Preparation of Tax Returns	To understand the PAN Card, E Filing etc.
26		Advertisement	To understand the role of advertisement in the economy.. Preparation of Advertisement copy. Influence of Advertisement on sales of an organisation.
27		Human Resource Management	To understand the importance of human resource for the organisation development and training, recruitment

---

## DEPARTMENT OF PHYSICS

Sl.NO	PAPER	Number	Course outcome
1	MECHANICS	CO1	To understand the uses of vector calculus in the field of physics by studying Gauss's divergence theorem , Stoke's theorem & Green's theorem.
		CO2	To know about concepts of mechanics of particles & Rigid bodies.
		CO3	To gain knowledge on concepts of central forces
		CO4	To gain knowledge of relativity, Galilean & Lorentz transformations, concept of four vector formalism.
2	WAVES AND OSCILLATIONS	CO1	To acquire the knowledge of fundamentals of vibrations, Simple Harmonic Oscillator- equation & it's solution, Lissajous figures etc.
		CO2	To Know the concept and applications of Damped Oscillator and coupled oscillator.
		CO3	To gain the knowledge of vibrations on strings, overtones, energy transport, transverse impedance.
		CO4	To understand the concepts of vibrations of bars.
3	THERMAL PHYSICS	CO1	To understand the concepts of Kinetic Theory Gases, Transport phenomena, basic laws of thermodynamics.
		CO2	To acquire the knowledge of thermodynamic potentials and Maxwell's equations, concepts of low temperature physics.
		CO3	To acquire the knowledge of the Quantum theory of Radiation, pyroheliometers.
		CO4	To understand the concepts of Statistical Mechanics, Maxwell-Boltzmann, Bose-Einstein, Fermi-Dirac Statistics.
4	OPTICS	CO1	To understand the concepts of Interference of Light by studying Interference phenomena.
		CO2	To acquire the knowledge of concepts of Diffraction phenomena.
		CO3	To understand the concepts of Polarization of light.
		CO4	To gain the knowledge of the concepts of Aberrations.

5	ELECTROMAGNETISM	CO1	To have the knowledge of concepts of electric field ,electric flux, Gauss's law and it's applications, concept of electric potential etc.
		CO2	The know the concepts of magnetic field and magnetic flux, Biot-Savart's law and it's applications, Ampere's law and applications etc.
		CO3	To have the knowledge of Faraday's laws of electromagnetic Induction, Lenz's law, concepts of self induction and mutual induction.
		CO4	To understand the Maxwell's electromagnetic wave equations in free spce & dielectric medium, Transverse nature of Electromagnetic waves. Polarization of Electromagnetic waves etc.
6	SOLID STATE PHYSICS	CO1	To gain the knowledge on crystal structures and crystal systems, Lattice vibrations, theories of specific heat of solids.
		CO2	To know about concepts of magnetic properties of matter and dielectric properties of solids.
		CO3	To understand the concept of band theory of solids, classification of solids , Hall effect and it's uses.
		CO4	To gain the knowledge on Lasers, construction, working principle and uses, concepts of Superconductivity and uses of superconductors.
7	MODERN PHYSICS	CO1	To acquire knowledge regarding the concept of black body radiation, photoelectric effect, atomic spectra, Bohr's model and Somerfield's model.
		CO2	To know the concepts of dual nature of matter, matter waves, Heisenberg uncertainty principle and applications.
		CO3	To Acquire the knowledge about concept of nucleus, nature of nuclear forces and nuclear models.
		CO4	To Know the concept of radioactive materials, half life , mean life, types of decay, nuclear reactions and elementary particles.
8	BASIC ELECTRONICS	CO1	To understand the concepts of Network elements and network theorems.
		CO2	To acquire the knowledge on Band theory of P-N junction diodes and uses of junction diode.
		CO3	To understand the concepts of bipolar junction transistor,

			uses of BJTs.
		<b>CO4</b>	To Understand the concept of Binary number system, Decimal, Hexadecimal Number system, Boolean algebra, Logic gates , De-Morgan's theorems.
9	WAVES & OPTICS	<b>CO1</b>	To gain the knowledge of vibrations on strings, overtones, energy transport, transverse impedance. The concepts of vibrations of bars.
		<b>CO2</b>	To understand the concepts of Interference of Light by studying Interference phenomena.
		<b>CO3</b>	To acquire the knowledge of concepts of Diffraction phenomena.
		<b>CO4</b>	To understand the concepts of Polarization of light.
10	ELECTROMAGNETIC THEORY	<b>CO1</b>	To have the knowledge of concepts of electric field ,electric flux, Gauss's law and it's applications, concept of electric potential etc.
		<b>CO2</b>	The know the concepts of magnetic field and magnetic flux, Biot-Savart's law and it's applications, Ampere's law and applications etc.
		<b>CO3</b>	To have the knowledge of Faraday's laws of electromagnetic Induction, Lenz's law, concepts of self induction and mutual induction. To understand the Maxwell's electromagnetic wave equations in free space & dielectric medium, Transverse nature of Electromagnetic waves. Polarization of Electromagnetic waves etc.
		<b>CO4</b>	To understand the concepts of varying currents, To understand the concepts of Network elements and network theorems.

## DEPARTMENT OF TELUGU

Sl.No	PAPER	Number	Course outcome
1	DHARMJUNIVAKCHA TURYAM.	CO1	Mahabharata visheshalu
		CO2	Tikkana natakeeyata,
		CO3	Parichina Telugu padabandalu
		CO4	Parichina kavivam
2	GUNANIDHIKATHA.	CO1	Sreenadhuni kavivam
		CO2	Purani prdhanyata
		CO3	Vidya radhanyata
		CO4	Chatuvulu
3	NARASIHASATAKAM	CO1	Satakam viseshalu
		CO2	Dhariansalu
		CO3	Neeti visheshalu
		CO4	Bhakthi visheshalu
4	ARDHARATRI ARUNODAYA	CO1	Vachana kavivam visheshalu
		CO2	Telagana samajikamsalu
		CO3	Naijam palana
		CO4	Rajakarla duscharyalu
5	NIVURUTOLAGINANI PPU	CO1	Katha sahityam visheshalu
		CO2	Patrowchityam
		CO3	Atmavisvasam, pattudala

		<b>CO4</b>	Jrutagyatabhavam
6	CHALICHEEMALU	<b>CO1</b>	Natakavisheshalu
		<b>CO2</b>	Gramarajikeeyalu
		<b>CO3</b>	Devalayam aastulu
		<b>CO4</b>	Gramasarpanch adhikara durviniyogam.
7	ALANKARALU CHANDASSU	<b>CO1</b>	Sabdalkaravisheshalu
		<b>CO2</b>	Sabdalkararadhanyata
		<b>CO3</b>	Parichina chadovisheshalu
		<b>CO4</b>	Aadhunika geyachandassu , mutyala saarl.

## DEPARTMENT OF POLITICAL SCIENCE

Sl.No	PAPER	Number	Course Outcomes
1	UNDERSTANDING POLITICAL THEORY	CO1	To know how to origin of political theories and its importance
		CO2	To know debates on political theory
		CO3	To know what is Political
		CO4	To know Political values and theoretical perspective
2	WESTERN POLITICAL THOUGHT	CO1	To know Greek political thought
		CO2	To know Medieval and early modern thought
		CO3	To know Utilitarian Political thought
		CO4	To know Philosophy of Dialectics
		CO5	To acquire the knowledge of Indian constitution
		CO6	To know about Indian National Movement
		CO7	To know Fundamental Rights
4	INDIAN POLITICAL THOUGHT	CO1	To Know the Process of various metabolic activities in plant body
		CO2	To Know ancient political thinkers ideas
5	INTERNATIONAL RELATIONS	CO1	To gain knowledge regarding the world nations politics
		CO2	To know 1 <sup>st</sup> and 2 <sup>nd</sup> world wars

## DEPARTMENT OF ZOOLOGY

Sl.No	PAPER	NUMBER	COURSE OUTCOME
1	ANIMAL DIVERSITY- INVERTEBRATES (PROTOZOA,PORIFERA)	CO1	To acquire the knowledge of microscopic living organisms General characters & classification of the animals, and the comparison, origin and evolution of cell and acellular
		CO2	To the knowledge acquire about the invertebrates Diseases (viral, bacterial fungal helminths protozoal)
		CO3	To the know cells and spicules coral, and coral reef formation bio-indicators vectors regeneration and symmetry
		CO4	To acquire the knowledge of Economic importance of invertebrates
2	ANIMAL PHYSIOLOGY AND ANIMAL BEHAVIOUR	CO1	To know the Homeostasis and Osmoregulation Hormone regulation of blood glucose levels in human being
		CO2	To gain knowledge about Digestive, Respiratory, Circulatory Nervous & Reproductive ..system of vertebrates
		CO3	To know the Endocrine system, glands-Structure Secretions and functions
		CO4	To know the Animal behavior Learning & memory biological rhythms
3	PHYSIOLOGY AND BIOCHEMISTRY	CO1	To know the Homeostasis and Osmoregulation Hormone regulation of blood glucose levels in human being marine and fresh water Animals
		CO2	To gain knowledge about Digestive, Respiratory, Circulatory Nervous & Reproductive ..system of vertebrates
		CO3	To know about Recombinant DNA technology, stem cells types and their applications
		CO4	To know the Endocrine system, glands-Structure Secretions and functions



4	APPLIED ZOOLOGY	CO1	To know the types of fisheries,culture. Induced breeding .transportation of fish &prawn
		CO2	To know the life cycle of Bombyx mori, Structure of gland & secretion of silk
		CO3	To know the Apiculture bee keeping equipment. Methods of extraction ofHoney
		CO4	To know the classification of fowls based on their use-Broilers and Commercial layers.
5	ANIMAL DIVERSITY- VERTEBRATES (HEMICHORDATA, PROTOCHORDATA & CEPHALOCHORDA TE)	CO1	To acquire the knowledge of General characters & classification of the animals, and the comparision origin and evolution vertebrates
		CO2	To know the General characters &classification of vertebrates
		CO3	To gain knowledge about Digestive, Respiratory, Circulatory Nervous& Reproductive system of vertebrates
		CO4	To acquire the knowledge of Economic importance of vertebrates
6	CELL BIOLOGY, GENETICS AND DEVELOPMENTAL BIOLOGY	CO1	To gain knowledge regarding of the unit of life that is cell, cell structure types, cell functions, various organelles of the cell and their function's structure
		CO2	To gain knowledge about DNA, RNA –types structure &functions which is very useful at molecular level of genes in various aspects of life quality of genetical characters and forensic method of the living organisms
		CO3	To Acquire the knowledge about Genetical aspects
		CO4	To acquire the knowledge of the development of male and female (oogenesis and spermatogenesis) reproductive organs emdroy the fertilization methodsto develop with new genetically combinations leading to new varieties
7	IMMUNOLOGY AND ANIMAL	CO1	To know about immune system-types structure ,function & Antigen-antibody reactions.
		CO2	
		CO3	To know about Cloning,cloning methods,vectors

	BIOTECHNOLOGY	CO4	To know the Vaccines-types and their reactions
			To know about Recombinant DNA technology, stem cells types and their applications
8	AQUATIC BIOLOGY	CO1	To acquire the knowledge of fresh water & marine water
		CO2	To acquire the knowledge of Origin and classification of lakes. Lake as an Ecosystem & Lake morphometry
		CO3	To know the oceanic pelagic zone, marine benthic zone.
		CO4	To know the Aquatic pollution salinity and density of sea water,

## DEPARTMENT OF COMPUTERS

Sl.No.	Course Code	Course Name	Course Outcomes
1	CSC 111	COMPUTER FUNDAMENTALS AND PHOTOSHOP	<b>CO-1:</b> The student is able to explore the basic knowledge of computer hardware and software. <b>CO-2:</b> The student is able to learn and work on adobe Photoshop applications. <b>CO-3:</b> The student is able to create and edit photo albums. <b>CO-4:</b> The student is able to design and edit Banners and visiting cards etc..
2	CSC112	PROGRAMMING IN C	<b>CO-1.</b> Appreciate and understand the working of a digital computer <b>CO-2.</b> Analyse a given problem and develop an algorithm to solve the problem <b>CO-3.</b> Use the 'C' language constructs in the right way <b>CO-4.</b> Design, develop and test programs written in 'C'

3	CSC103	OBJECT ORIENTED PROGRAMMING USING JAVA	<p><b>CO-1.</b> Understand the concept and underlying principles of Object-Oriented Programming</p> <p><b>CO-2.</b> Understand how object-oriented concepts are incorporated into the Java programming language</p> <p><b>CO-3.</b> Develop problem-solving and programming skills using OOP concept</p> <p><b>CO-4.</b> Become familiar with the fundamentals and acquire programming skills in the Java language.</p>
4	CSC104	DATA STRUCTURES	<p><b>CO-1.</b> student knows how arrays, records, linked structures, stacks, queues, trees, and graphs are represented in memory and its applications</p> <p><b>CO-2.</b> Write programs that use arrays, records, linked structures, stacks, queues, trees, and graphs</p> <p><b>CO-3.</b> Compare and contrast the benefits of dynamic and static data structures implementations</p> <p><b>CO-4.</b> Describe the concept of recursion, give examples of its use, describe how it can be implemented using a stack.</p>
			<p><b>CO-5.</b> Discuss the computational efficiency of the principal algorithms for sorting, searching, and hashin</p>

5	CSC105	DATABASE MANAGEMENT SYSTEMS	<p><b>CO-1.</b> Student knows database structure and its design</p> <p><b>CO-2.</b> Students are able to understand Different data models used for database design</p> <p><b>CO-3.</b> Students are able to understand database transactions and data recovery</p> <p><b>CO-4.</b> Students can use DML, DDL, DCL commands to manipulate data in the database</p>
6	CSC121	SOFTWARE ENGINEERING	<p><b>CO-1.</b> Ability to gather and specify requirements of the software projects.</p> <p><b>CO-2.</b> Ability to analyse software requirements with existing tools</p> <p><b>CO-3.</b> Able to differentiate different testing methodologies and apply the basic project management practices in real life projects</p> <p><b>CO-4.</b> Ability to work in a team as well as independently on software projects</p>
7	CSC115	OPERATING SYSTEMS	<p><b>CO-1.</b> Analyse the concepts of processes in operating system and illustration of the scheduling of processor for a given problem instance.</p> <p><b>CO-2.</b> Identify the dead lock situation and provide appropriate solution so that protection and security of the operating system is also maintained.</p> <p><b>CO-3.</b> Analyse memory management techniques, concepts of virtual memory and disk scheduling.</p> <p><b>CO-4.</b> Understand the implementation of file systems and directories along with the interfacing of IO devices with the operating system.</p>

8	CSC122	COMPUTER NETWORKS	<p><b>CO-1.</b> Identify the different components in a Communication System and their respective roles.</p> <p><b>CO-2.</b> Describe the technical issues related to the local Area Networks</p> <p><b>CO-3.</b> Knows about different topologies and network types</p> <p><b>CO-4.</b> Identify the common technologies available in establishing LAN infrastructure.</p>
9	CSC106	GUI PROGRAMMING	<p><b>CO1.</b> Design and develop Windows application using different Windows technologies that use a variety of GUI controls and classes to fulfill specific user requirements.</p> <p><b>CO2.</b> Explain how event driven applications use threading to perform time-consuming operations.</p> <p><b>CO3.</b> Demonstrate how to use specific features of the GUI programming language to write objectoriented programs and handle runtime errors.</p> <p><b>CO4.</b> Explain in a public setting how user interfaces should be designed to accommodate human physiology and limitations.</p>

10	CSC116	WEB TECHNOLOGIES	<p><b>CO-1.</b> To understand the web architecture and web services.</p> <p><b>CO-2.</b> To practice latest web technologies and tools by conducting experiments.</p> <p><b>CO-3.</b> To design interactive web pages using HTML and Style sheets.</p> <p><b>CO-4.</b> To study the framework and building blocks of .NET Integrated Development Environment.</p> <p><b>CO-5.</b> To provide solutions by identifying and formulating IT related problems.</p>
11	CSC118	FOUNDATION OF DATA SCIENCE	<p><b>CO-1.</b> Able to apply fundamental algorithmic ideas to process data.</p> <p><b>CO-2.</b> Learn to apply hypotheses and data into actionable predictions.</p> <p><b>CO-3.</b> Document and transfer the results and effectively communicate the findings using visualization techniques.</p>
12	CSC119	BIG DATA	<p><b>CO-1.</b> Learn tips and tricks for Big Data use cases and solutions.</p> <p><b>CO-2.</b> Learn to build and maintain reliable, scalable, distributed systems with Apache Hadoop.</p> <p><b>CO-1.</b> Able to apply Hadoop ecosystem components.</p>

## DEPARTMENT OF HISTORY

S.No	PAPER	Number	Course outcome
1	HISTORY OF INDIA (FROM EARLIEST TIMESTO C.700 CE)	CO1	To know about the History and Its Relationship with other Social Sciences - Geographical Features of India Sources of Indian History.
		CO2	To know about the Indus Valley Civilization - Its Features & Decline.
		CO3	To gain knowledge on Rise of New Religious Movements, Jainism and Buddhism.
		CO4	To gain knowledge of Ashoka and His Dharma Polity Administration - Society Economy Religion Literature - Art and Architecture.
		CO5	To gain knowledge of Gupta Empire: A Brief Political Survey - Polity and Administration, Social and Economic Conditions, Agriculture and Land Grants – Feudalism.
2	HISTORY OF INDIA (C.700-1526CE)  DISCIPLINE SPECIFIC COURSE - PAPER – II	CO1	To Know the Cholas; Local Self Government under Cholas; Society, Economy, Literature, Art and Architecture.
		CO2	To Know the Arab Conquest of Sind, Ghaznavids and Ghoris; Foundation of Delhi Sultanate: Slave, Khaljis, Tughlaqs, Sayyids and Lodis Polity, Administration.
		CO3	To know the : Bhakti and Sufi Movements and their Impact on Society and Culture – Emergence of Composite Culture.
		CO4	To know the importance Kakatiyas Polity Administration - Society and Economy - Literature and Religion Art and Architecture Yadavas Hoysalas and Pandyas Brief History.
		CO5	To gain knowledge of Vijayanagara Polity Administration - Society and Economy Religion Art and Architecture
	HISTORY OF INDIA (1526-	CO1	To acquire knowledge to Establishment of Mughal Dynasty - Sources Shershah Sur and His Reforms -Brief Survey of political History of Mughals Akbar, Shah Jahan and Aurangzeb
		CO2	To acquire the knowledge Rise of Regional Powers - Marathas Shivaji and His Administration Peshwas -Sikhs.



3	1857CE) DISCIPLINE SPECIFIC COURSE - PAPER – III	CO3	To acquire the knowledge Advent of European Powers - Portuguese, Dutch, English and French, Anglo- French Rivalry - Expansion and Consolidation of British Power We Subsidiary Alliance
		CO4	To know the Three Stages of Colonialism Mercantilism - Free Trade Policies Finance Capital - Land Revenue Settlements Cornwallis and Permanent Revenue Settlement
		CO5	To know the- Anti-Colonial Upsurge - 1857 Revolt Nature, Causes and Results.
4	HISTORY OF INDIA (1858-1964CE) DISCIPLINE SPECIFIC COURSE - PAPER – IV	CO1	To Know the Queen’s Proclamation – Beginning of Colonial Rule – Introduction of Western Education
		CO2	To Know the Socio-Religions Reform Movements – Brahma Samaj - Arya Samaj – Theosophical Society - Ramakrishna Mission
		CO3	to know the importance Factors for the Rise of Nationalism – Formation of Indian National Congress –Three Phases of Freedom Struggle: Moderate Phase, Extremist Phase and Gandhian Era
		CO4	To know the Revolutionary Movement: Gadhar Party – Bhagath Singh – Chandra Sekhar Azad
		CO5	To know the Emergence of Communal Politics and Mohd. Ali Jinnah – Prelude to Partition of India - Sardar Vallabhai Patel
5		CO1	To gain knowledge Fall of Constantinople (1453 C.E.) – Beginning of Modern Age in Europe –Geographical
	WORLD HISTORY(1453-1815 CE) DISCIPLINE SPECIFIC COURSE – PAPER – V		Discoveries
		CO2	The know the Reformation Movement – Causes – Martin Luther, John Calvin and Zwingli;Counter Reformation Movement and Ignatius Loyola
		CO3	To have the knowledge Emergence of Nation States – Causes – Spain – Charles V; England – Henry VIII -Glorious Revolution (1688); France under Bourbons – Louis XIV; Era of Enlightened Despotism – Peter the Great and his Policies
		CO4	To understand the importance End of Feudalism – Industrial Revolution
		CO5	To know the American War of Independence (1776) – French Revolution (1789)
	DISCIPLIN E	CO1	To Know the Sources – Archaeological and Literary Sources - Geographical Features of Telangana - Pre History – The Age of Satavahanas

6	SPECIFIC ELECTIVE - PAPER - I (A)  HISTORY OF TELANGANA (FROM EARLIEST TIMES TO 1724 CE)	CO2	To know about Post-Satavahana Period - Ikshvakus – Vishnukundins – A Brief Political History – Society – Economy
		CO3	To know the importance Origin and Early History of Chalukyas of Badami and their Contribution to Culture- Chalukyas of Vemulavada & Mudigonda
		CO4	To know the Kakatiyas – Origin and Early History – Ganapatideva, Rudramadevi and Prataparudra
		CO5	To know the: Qutb Shahis of Golconda – Origin and Political History
7	SKILL ENHANCEMENT COURSE - PAPER -III  TELANGANA HERITAGE AND CULTURE	CO1	To acquire knowledge regarding the Definition of Heritage and Culture: Tangible heritage
		CO2	To know the : Archaeological sites, Art and Architecture- Buddhist heritage, Jain Heritage
		CO3	To Acquire the knowledge about Hindu Temple architectural heritage- Role of Government Museums.
		CO4	To Know INTACH in preservation of Heritage Telangana- Kotilingala (Jagityal District), Peddabankur (Peddapalli District)
		CO5	To know the Warangal -Heritage related Government Departments-Museums.
8	DISCIPLINE SPECIFIC COURSE - PAPER – VI  WORLD HISTORY (1815-1950 CE)	CO1	To Know the : Congress of Vienna (1815) – Principles and Impact; Metternich and his System –1830 and 1848 French Revolutions
		CO2	To Know the First World War (1914-18) – Results –Treaty of Versailles
		CO3	To Know the Establishment of United Nations Organization (1945)
		CO4	To Know the knowledge Second World War – Causes and Results
		CO5	To know the Colonization of Asia - India and China under Colonial Rule
	HISTORY OF TELANGANA (1724-2014 CE)	CO1	To know the Foundation of Asaf Jahi Dynasty – Nizam-ul-Mulk to Mir Mahaboob Ali Khan
		CO2	To know the Social, Cultural and Political Awakening in Telangana – Press, Journalism and Library Movements

9	DISCIPLINE SPECIFIC ELECTIVE - PAPER - II (A)	CO3	To Know the Anti-Nizam and Anti-Feudal Struggles – Telangana Peasants Armed Struggle 1946-51
		CO4	To know the Discrimination, Dissent and Protest – Violation of Gentlemen’s Agreement
		CO5	To know the Second Phase Movement for Separate Telangana – Formation of Various Associations –Telangana Aikhya Vedika – Telangana Jana Sabha - Telangana Rashtra Samithi 2001

## DEPARTMENT OF ENGLISH

### **PROGRAMME OUTCOMES**

The following are the expected Programme Outcomes of UG courses from Department of English at Government Degree College Narsampet, Warangal District, Telangana State.

#### **[A] Critical Close Reading**

An ability to read critically the prescribed texts and understand its broader implications. This includes:

- Read closely in a variety of forms, styles, structures, and modes.
- Use of various interpretative techniques.

#### **[B] Critical Thinking**

An ability to think critically on various issues and subject matters and relate the same with real life situations.

This includes the ability to:

- Synthesize and integrate knowledge.
- Practice and develop argumentative skills.
- In-depth study of the subject matter.

#### **[C] Integration of Knowledge:**

Demonstrate detailed knowledge in one or more disciplines and the ability to integrate knowledge across disciplinary boundaries.

This includes the ability to:

- Study the current state of knowledge.
- Multi-disciplinary learning ability.
- Show familiarity with works from other disciplines.

#### **[D] Communication Skill**

Demonstrate the ability to extract and convey information accurately in a variety of formats. This includes:

- An ability to adjust writing style appropriately to the content, the context, and nature of the subject.
- Ability to communicate ideas logically.
- Write clearly and effectively in a variety of forms, adapting writing and analytical skills to all situations

#### **[E] Research Aptitude**

Development of a spirit of critical and scholarly enquiry for the subject.

This includes:

- To identify and evaluate appropriate research sources,
- To incorporating the sources into documented academic writing,
- To formulate original arguments in response to those sources.
- To apply appropriate research methodologies to specific problems

#### **[F] Role as a Global Citizen**

A critical understanding about the ways of the world and realization of one's role within communities to effect change.

This includes the ability to:

- Demonstration of intercultural awareness.
- To understand the meaning of cultural globalization in true sense.
- Collaborate respectfully with others, individually and in teams.
- Maintain highest ethical standard in personal life.
- 

### **The students of Undergraduate are further**

- Developing intellectual, personal and professional abilities through effective communicative skills; ensuring high standard of behavioral attitude through literary subjects and shaping the students socially responsible citizens.
- To enhance employability of the students by developing their linguistic competence and communicative skills

- Students should be able to develop their intellectual, personal and professional abilities. Students should acquire basic language skills, such as Listening, Speaking, Reading and Writing.

### **PROGRAMME SPECIFIC OUTCOMES**

- On successful completion of the Programme, the students will be accurate both in oral and written communication as they will be strong in Grammar and its usage.
- They can express a thorough command of English and its linguistic Structures.
- They can apply critical frameworks to analyze the linguistic, cultural and historical background of texts written in English.
- They will be familiar with the conventions of diverse textual genres including fiction, non-fiction, poetry, autobiography, biography, Journal, film, plays, editorials etc.
- To enable students to understand the passage by silent reading
- To learn phonetics and proper intonation

## DEPARTMENT OF ENGLISH - COURSE OUTCOMES w.e.f. 2020-21

S. No.	Semester	Course	Credits	Course Outcome
1	I	English for Advancement	4	<ul style="list-style-type: none"> <li>➤ Students can enjoy all the essays and improves literary skills</li> <li>➤ Students can learn all the grammar skills</li> </ul>
2	II	English for Advancement	4	<ul style="list-style-type: none"> <li>➤ Students will be able to improve comprehensive skills as well as advanced grammar skills</li> <li>➤ Students can understand the values of literature</li> </ul>
3	III	English for Excellence	3	<ul style="list-style-type: none"> <li>➤ The text contains Gender studies focusing on achieving gender equality, gender roles and violence against women.</li> <li>➤ Students will also be able to make use of grammar and soft skills when they face competitive exams</li> </ul>
4	IV	English for Excellence	3	<ul style="list-style-type: none"> <li>➤ The text contains issues of environmental pollution such as renewable and non-renewable resources and its uses, ecosystem and conservation of Biodiversity</li> <li>➤ Students can improve reported speech, conditionals, common errors, collocations, etc.</li> </ul>
5	V	Communication Skills English through Human Values and Ethics	3	<ul style="list-style-type: none"> <li>➤ The text contains an anthology of literary pieces of prose and poetry focusing on human values and ethics</li> <li>➤ The students will be able to enhance their writing skills through note-making, paragraph writing and speaking skills</li> </ul>
6	VI	Communication Skills English for Employability Skills	3	<ul style="list-style-type: none"> <li>➤ The text contains an anthology of literary pieces of prose and poetry focusing on human values and ethics</li> <li>➤ The students will be able to enhance their writing skills through letter writing, email writing etc.</li> </ul>

## DEPARTMENT OF ECONOMICS

PAPER	COURSE OUTCOMES
MICROECONOMICS	Students will be able to apply supply and demand analysis to examine the impact of government regulation and it also enable them to explain determinants of demand, responses of market and the benefits of exchange.
MACROECONOMICS	It provides knowledge regarding the formulation of broad economic policies that maximize the level of national income, providing economic growth to achieve sustainability, full employment, price stability, external balance, increasing productivity in the long run.
BASIC STATISTICS	Students will be able to identify data provided and interpret summary statistics and analyze the data.
INTERNATIONAL TRADE AND PUBLIC FINANCE	Enable the students the pattern and nature of international trade and their contribution to economic development. It also enables learners to know the role of public authorities in raising revenue and its spending.
ECONOMICS OF DEVELOPMENT	It makes the students to understand the aspect of development process in low income counties. Its focus is on improving the potential for the mass of population through health and education.
INDIAN ECONOMY	It makes learners to understand the economic functioning and conditions of our country in the context of past, present and future.