



**Telangana Social Welfare Residential Degree College
for Women, Nirmal, Dist.: Nirmal – 504106.**



SriE.Venkateshwarlu,
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PROGRAMME OUTCOMES OF UG BA, B COM, B.S.C

Graduates of a Bachelor's Degree will have a broad and coherent body of knowledge in their disciplines, with a deep understanding of the underlying principles and concepts in one or more disciplines as a basis for independent lifelong learning.

At the end of an under graduate Programme Students will be able to

- Describe and define critical concepts in their discipline
- Explain and discuss concepts and ideas pertaining to their discipline
- Demonstrate a broad understanding of their discipline
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Demonstrate understanding of the interconnections of knowledge within and across Disciplines
- Apply knowledge, theories, methods, and practices in their chosen field of study to address real-world challenges and opportunities
- Demonstrate proficiency in experimental techniques and methods of analysis appropriate for their area of specialization
- Generate and analyze data using appropriate quantitative tools
- Construct and test hypotheses
- Demonstrate cognitive and technical skills to synthesize knowledge in interrelated disciplines
- Demonstrate critical thinking and judgment in identifying and solving problems with intellectual independence
- Demonstrate the skills needed to be able to function successfully in their field
- Show responsibility and understanding of local and global issues
- Demonstrate through their actions and speech that they are agents of social justice and change
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness

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FOR WOMEN, NIRMAL.**

- Demonstrate intercultural, interracial, interclass, inter-caste, and ethical competency
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience and capabilities with the marginalised and oppressed in their communities



DEPARTMENT OF ENGLISH

COURSE & PROGRAMME OUTCOMES OF ENGLISH

COURSE OUTCOMES:

GENERAL ENGLISH PAPER-I

SEMESTER –I

On the successful completion of the course the student will be able to

- Read, understand and interpret a variety of written texts.
- Undertake guided and extended writing using appropriate vocabulary and correct grammar.
- Listen with comprehension and speak with confidence in both formal and informal contexts with reasonable fluency and acceptable pronunciation.
- Become employable with requisite professional skills, Ethics and values.
- Get exposed to the best examples of prose and poetry in English and realize the beauty and communicative power of English.

GENERAL ENGLISH PAPER-II

SEMESTER –II

On the successful completion of the course the student will be able to

- Read, understand and interpret a variety of written texts.
- Undertake guided and extended writing using appropriate vocabulary and correct grammar.
- Listen with comprehension and speak with confidence in both formal and informal contexts with reasonable fluency and acceptable pronunciation.
- Become employable with requisite professional skills, Ethics and values.
- Get exposed to the best examples of prose and poetry in English and realize the beauty and communicative power of English.

GENERAL ENGLISH PAPER-III

SEMESTER III



On the successful completion of the course the student will be able to

- Read, understand and interpret a variety of written texts.
- Undertake guided and extended writing using appropriate vocabulary and correct grammar.
- Listen with comprehension and speak with confidence in both formal and informal contexts with reasonable fluency and acceptable pronunciation.
- Become employable with requisite professional skills, Ethics and values.
- Get exposed to the best examples of prose and poetry in English and realize the beauty and communicative power of English.

GENERAL ENGLISH PAPER-IV

SEMESTER –IV

On the successful completion of the course the student will be able to

- Read, understand and interpret a variety of written texts.
- Undertake guided and extended writing using appropriate vocabulary and correct grammar.
- Listen with comprehension and speak with confidence in both formal and informal contexts with reasonable fluency and acceptable pronunciation.
- Become employable with requisite professional skills, Ethics and values.
- Get exposed to the best examples of prose and poetry in English and realize the beauty and communicative power of English.

GENERAL ENGLISH PAPER-V

SEMESTER –V

On the successful completion of the course the student will be able to

- Read, understand and interpret a variety of written texts.
- Undertake guided and extended writing using appropriate vocabulary and correct grammar.
- Listen with comprehension and speak with confidence in both formal and informal contexts with reasonable fluency and acceptable pronunciation.
- Become employable with requisite professional skills, Ethics and values.
- Get exposed to the best examples of prose and poetry in English and realize the beauty and communicative power of English.

GENERAL ENGLISH PAPER-VI

SEMESTER VI



On the successful completion of the course the student will be able to

- Read, understand and interpret a variety of written texts.
- Undertake guided and extended writing using appropriate vocabulary and correct grammar.
- Listen with comprehension and speak with confidence in both formal and informal contexts with reasonable fluency and acceptable pronunciation.
- Become employable with requisite professional skills, Ethics and values.
- Get exposed to the best examples of prose and poetry in English and realize the beauty and communicative power of English.

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DEPARTMENT OF COMPUTER SCIENCE
B.SC COMPUTER SCIENCE UNDER CBCS



PROGRAM OUTCOMES:

- PO1: To develop problem solving abilities using programming.
- PO2: To build the necessary skill set and analytical abilities for developing computer based solutions for real life problems.
- PO3: Empower the students in academic, social, psychological and economic arenas by developing relevant competences
- PO4: Acquire sufficient knowledge base in the Domain specific area leading to the pursuit of advanced level of study in the chosen domain specific area.
- PO5: Augment the recent developments in the field of IT and relevant fields of Research and Development.
- PO6: Adaptability and capacity building to the ever changing needs of the industry and employment opportunities.
- PO7: Provide insight to problem solving to succeed in technical profession through precise education and to prepare students to excel in postgraduate programs.
- PO8: Inculcate the human values through curricular , co-curricular and extra curricular activities.

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COURSE OUTCOMES:



BSC COMPUTER SCIENCE I YEAR SEMESTER-I

COURSE TITLE: Programming in C

COURSE CODE:BS106

After completion of this course students will be able to

- CO1: Students will understand algorithms and flowchart for solving problems using computers.
- CO2: Students will understand and can choose the loops and decision-making statements to solve the problem.
- CO3: Student will implement different Operations on arrays and will use functions to solve the given problem.
- CO4: To enrich the students in logic development required for programming.

COURSE TITLE: C Lab

COURSE CODE: BS106

- CO1: Analyze logical thinking, algorithmic approach and their Complexity
- CO2: Identify the correct and efficient ways of solving problems.

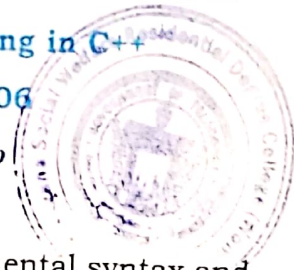
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BSC COMPUTER SCIENCE I YEAR SEMESTER-II

COURSE TITLE: Programming in C++

COURSE CODE: BS206

After completion of this course students will be able to



- CO1: Solve simple problems using the fundamental syntax and Semantics of the C++ programming language
- CO2: Implement Object Oriented Programming techniques using C++ programming
- CO3: Creation of C++ programs to develop applications with reusability Features.
- CO4: To enrich the students in developing C++ applications using Templates and handling exceptions.

COURSE TITLE: C ++ Lab

- CO1: Create simple programs using C++
- CO2: Implement Object Oriented Programs in C++

COURSE TITLE: Fundamentals of Computers

COURSE CODE: AECC

- CO1: Learn the basics of computer Hardware
- CO2: Describe the number systems in computer

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BSC COMPUTER SCIENCE II YEAR SEMESTER-III

COURSE TITLE: Data Structures using C++

COURSE CODE: BS307

After completion of this course students will be able to

- CO1: Describe the basic operations on different linear data structures, stacks and queues.
- CO2: Analyze the operations like searching, insertion, deletion, traversing mechanism etc. on various data structures
- CO3: Explain the notions of non linear data structures and analyze the application areas.
- CO4: Describe the efficiency of algorithms with respect to the choice of data structures



COURSE TITLE: Data Structures using C++ Lab

COURSE CODE: BS307

- CO1: Implement data structures such as stacks, queues, search trees and hash tables to solve various computing problems
- CO2: Identify the appropriate data structures and algorithms for solving real world problems.

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BSC COMPUTER SCIENCE II YEAR SEMESTER-IV

COURSE TITLE: Data Base Management Systems

COURSE CODE: BS407



After completion of this course students will be able to

- CO1: Apply contemporary logical design methods and tools for databases
- CO2: Derive a physical design for a database from its logical design
- CO3: Describe SQL query language with appropriate applications
- CO4: Understand the need of concurrency control in data bases

COURSE TITLE: Data Base Management Systems

COURSE CODE: BS407

- CO1: Design relational database systems for a given problem
- CO2: Formulate queries using SQL DML/DDL/DCL commands

COURSE TITLE: Python Programming

COURSE CODE: SEC-3

After completion of this course students will be able to

- CO1: Classify data using data structures such as lists, tuples, and dictionaries
- CO2: Learn the concepts of Python such as file I/O operations, Modules and Packages to develop the applications


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BSC COMPUTER SCIENCE III YEAR SEMESTER-V

COURSE TITLE: Programming in JAVA

COURSE CODE: BS506



After completion of this course students will be able to

- CO1: Solve simple problems using the fundamental syntax and semantics of the Java programming language
- CO2: Construct programs with the object-oriented language Java.
- CO3: Build on the constructs of sequence, selection, and repetition to develop programs using objects, methods, data abstraction, inheritance, and polymorphism
- CO4: Build the applications using AWT and Swings Components

COURSE TITLE: JAVA Lab

COURSE CODE: BS506

- CO1: Implement Object Oriented Programming concepts using Java.
- CO2: Write Programs using Java AWT

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BSC COMPUTER SCIENCE III YEAR SEMESTER-VI

COURSE TITLE: Web Technologies
COURSE CODE: BS606



After completion of this course students will be able to

- CO1: Examine a web page elements and attributes.
- CO2: Create static web pages using HTML and CSS
- CO3: Develop a dynamic webpage using java script and DHTML
- CO4: Describe concepts of XML and AJAX

COURSE TITLE: Web Technologies Lab
COURSE CODE: BS606

- CO1: Develop a webpage(static/dynamic) using HTML and CSS
- CO2: Implement the applications using JavaScripts and XML

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**DEPARTMENT OF STATISTICS
PROGRAMME & COURSE OUTCOMES OF
B.SC STATISTICS UNDER CBCS**



PROGRAMME OUT COMES:

1. Students learn different techniques used in Industries and research used for carrying the analysis.
2. Students will be well acquainted with various fields in statistical knowledge is useful.
3. Students learn the team work while completing the project work.
4. Students will formulate complete, concise, and correct mathematical proofs.

COURSE OUT COMES

SEMESTER –I

DESCRIPTIVE STATISTICS AND PROBABILITY

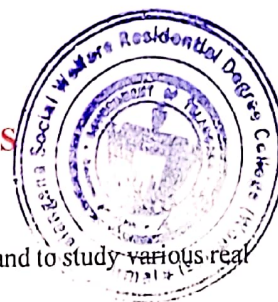
On the completion of the course, Students will be able to:

1. To tabulate statistical information given in descriptive form and to use graphical techniques to interpret
2. To compute various measures of central tendency, dispersion, skewness and kurtosis.
3. To find the probabilities of events.
4. Proofs of some basic theorems of probability theory

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SEMESTER –II

PROBABILITY DISTRIBUTIONS



On the completion of the course, Students will be able to:

1. To fit various discrete and continuous probability distributions and to study various real life situations.
2. It is also defined based on the underlying sample space as a set of possible outcomes of any random experiment.
3. Understand the probability distribution of bivariate random variables and the terms marginal distributions, conditional distributions, marginal, joint.

SEMESTER –III

STATISTICAL METHODS AND THEORY OF ESTIMATION

On the completion of the course, Students will be able to:

1. List the ideal properties of point estimators of an unknown parameter of a distribution and select the best estimators using different properties.
2. Determine estimators of unknown parameters using methods like MLE, Method of moments etc.
3. Need for statistical methods in medicine ,Public health and Biology.
4. Differentiate between classical and Bayesian inference

SEMESTER –IV

STATISTICAL INFERENCE

On the completion of the course, Students will be able to:

1. The student has basic theoretical knowledge about fundamental principles for statistical inference.
2. The student has knowledge about construction of point and interval estimators, and hypothesis testing; and about the evaluation of these estimators and tests.
3. The measurable functions, convergence and dominated convergence theorems and its applications.

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SEMESTER –V

APPLIED STATISTICS-I

On the completion of the course, Students will be able to:

1. Ability to design, use, and interpret control charts for variables and attributes.
2. Knowledge of carrying out a sample survey and to remember probability applications in sampling .
3. Knowledge of stratified and systematic sampling and to compare various sampling techniques.
4. Understand time series data, its components and its applications to various fields. Fitting and plotting of growth curves, trend and also measurement of seasonal indices.

SEMESTER –VI

APPLIED STATISTICS-II

On the completion of the course, Students will be able to:

1. Identify situations where One way and Two way ANOVA is applicable and to interpret ANOVA table.
2. Use appropriate experimental designs to analyze experimental data.
3. Understand the notation and formulae concerning the use and construction of index numbers.
4. Assess Birth and Death rates and to analyze reproduction rates for population growth

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DEPARTEMENT OF PHYSICS

PROGRAMME & COURSE OUTCOMES OF B.SC PHYSICS UNDER CBCS

PROGRAMME OUTCOMES

Upon Completing the B.SC Degree in the field of Physics, Students will attain:

- **PO 1: Knowledge:** Learners are encouraged to apply the knowledge of Physics fundamentals to solve complex problems in daily life.
- **PO 2: Designing Solutions:** Students are trained to think, design and conduct an experiment or a series of experiments that demonstrate their understanding of the methods and processes involved.
- **PO 3: Problem Analysis:** Students will be able to identify , formulate and analyze scientific problems and reach concrete solutions using various principles of Physics.
- **PO 4: Ethics:** The students wil become well-groomed individuals who understand the significance of ethical values and abide by them even in the most difficult circumstances.
- **PO 5: Employability:** Students get various employment opportunities that are available in areas of their choice through the placement cell.


COURCES OUTCOMES FOR PHYSICS

SEMESTER- I

MECHANICS

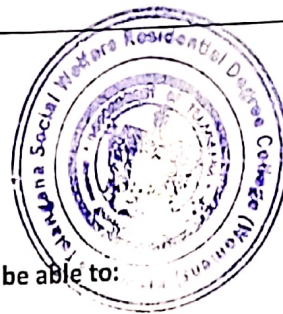
Course Outcomes: Upon the successful completion of the course students will be able to,

- **CO 1:** Understand the concept of central forces and vector analysis.
- **CO 2:** Study the behavior of rigid body dynamics.
- **CO 3:** Understand the negative result of Michelson Morley experiment, Galileanand Lorentz transformation.
- **CO 4:** Investigate Young's modulus and rigidity modulus.
- **CO 5:** Understand various properties of liquids ie., Surface tension, refractive index, viscosity.


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SEMESTER- II

THERMAL PHYSICS



Course Outcomes: Upon the successful completion of the course students will be able to:

- ❖ CO 1: Understand the concepts of Kinetic theory of gases.
- ❖ CO 2: Understand the concepts of Low temperature physics and black body radiation.
- ❖ CO 3: Understand the concept of Maxwell's Equations.
- ❖ CO 4: Understand thermal conductivity of a bad conductor by Lee's Method.
- ❖ CO 5: Understand Specific heat of a liquid by applying Newton's law of cooling correction.

SEMESTER – III

ELECTROMAGNETIC THEORY

Course Outcomes: Upon the successful completion of the course the students will be able to:

- ✓ CO 1: Study the electric field using coulomb's inverse square law in electro statics of current.
- ✓ CO 2: Understand the chemical and heating effect of current.
- ✓ CO 3: Understand the relation between B ,Hand M.
- ✓ CO 4: Understand the faradays law of electromagnetic induction.
- ✓ CO 5: Understand the Thevenin Theorem, Norton Theorem, Superposition Theorem and maximum power transfer theorem.
- ✓ CO 6: To determine a small resistance by Carey Forster's bridge.
- ✓ CO 7: To determine the (a) current sensitivity (b) charge sensitivity and (c) CDR of a B.G.

SEMESTER – IV

WAVES AND OPTICS

Course Outcomes: Upon the successful completion of the course students will be able to:

- CO 1: Understand the concept of fundamentals of vibrations.
- CO 2: Understand the concept simple harmonic motion, Damped Oscillation and Forces oscillations. Understand the concept of vibrating strings and bars.
- CO 3: Understand the concept of laws of stretched strings.
- CO 4: Differentiate the phenomena of interference , Diffraction and polarization.
- CO 5: Understand measurement of wavelength using Newton's Rings method and minimum deviation, Normal method.
- CO 6: Understand Resolving power of telescope , Dispersive power of prism. Understand the optical rotation.

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SEMESTER- V

MODERN PHYSICS

Course Outcomes: Upon the successful completion of the course students will be able to:

- ❖ CO 1: Understand the basic concepts of force between atom and bonding between molecules.
- ❖ CO 2: Understand wave Particle Duality deBroglie hypothesis ,Experimental confirmation of matter wave, Davission Germer Experiment , velocity of deBroglie wave.
- ❖ CO 3: Understand the concepts of Nuclear Physics like Size and structure of atomic nucleus and its relation with atomic weight..
- ❖ CO 4: Understand Atomic Spectra and Models of classical physics.

SEMESTER -VI

ELECTRONICS

Course Outcomes :Upon the successful completion of the courses students will be able to:

- CO 1: Analyze the relationship between conductors and insulators and super conductivity.
- CO 2: Understand Band theory of P-N junction , diodes and transistors.
- CO 3: Understand the importance of Digital Electronics.
- CO 4: Draw AND,OR,NOT,NAND and NOR circuits and Draw their Truth Tables.
- CO 5: Understand Characteristics of a Transistor in CE configuration and R.C. coupled amplifier – frequency response.
- CO 6: Understand De Morgan's Theorem and Zener diode V-I characteristics.



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DEPARTMENT OF ZOOLOGY
COURSE & PROGRAMME OUTCOMES OF
B.SC ZOOLOGY UNDER CBSC



PROGRAMME OUTCOMES FOR ZOOLOGY:

- After successfully completing B. Sc. (Zoology) Programme students will be able to:
- PO1. Communicate scientific information through effective formal and informal methods generally used in sciences.
 - PO2. Conduct basic scientific research and provide inputs for societal benefits.
 - PO3. Develop competence in basic sciences and in the content of the specific courses that constitute the principal knowledge of their degree.
 - PO4. Compare and contrast the characteristics of animals that differentiate them from other forms of life.
 - PO5. Acquire the skills in handling scientific instruments, planning and performing in laboratory experiments.
 - PO6. Understand and be aware of relevant theories, paradigms, concepts and principles of zoology.
 - PO7: Understand the structure and functions of cell types
 - PO8: Acquire time management and self-management skills.
 - PO9: Relate the various abiotic factors with health of living forms and ecosystems.
 - PO10: Explain the role of various biomolecules in living systems
 - PO11: Apply the knowledge of Zoology to understand the complex life life Processes and phenomena.
 - PO12: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning.


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COURSE OUTCOMES FOR ZOOLOGY:



B.SC I Year

SEMESTER- I

ANIMAL DIVERSITY AND INVERTEBRATES

After successfully completing this course, students will be able to:

- 1: Demonstrate anatomical and physiological attributes of each animal group and why these have led to their success.
- 2: Identify a range of invertebrate and vertebrate animals
- 3: Describe the morphology, habit and habitat. Systematic position and various systems in Elphidium, Sycon, Obelia, Schistosoma, Dracanculus, Hirudinaria granulosa

SEMESTER-II

ANIMAL DIVERSITY AND VERTEBRATES :

- 1: Describe the morphology, habit and habitat. Systematic position and various systems in fish, frog, calotes, Bird and mammal.
- 2: List the various animals in a given phylum.
3. State the animal classification.
4. Enlist the examples of the phylums studied.
- 5.Comment on the modifications of common animal forms of the groups studied.

B.Sc. II year:


SEMESTER-III

PHYSIOLOGY, ANIMAL BEHAVIOR

- 1: To understand the functions of important physiological systems including the digestive, cardio- respiratory, renal, reproductive, nervous and muscular systems.
- 2: To analyze the life sustaining, controlling and coordinating systems.
- 3: To analyze the various behavioral patterns in animals.

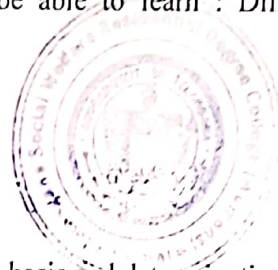
SEMESTER-IV

CELLBIOLOGY, GENETICS and DEVELOPMENTAL BIOLOGY


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After successfully completing this course, students will be able to learn : Differentiate prokaryotic and Eukaryotic cell.

- 1: Describe the structure and functions of cell organelles.
- 2: Label the various cell parts and Cell organelles.
- 3: Explain the cell division process and its significance.
- 4: Explain Mendel's principle, its extension and chromosomal basis and determination of gene action from genotype to phenotype and concepts of inheritance.
- 5: Define the terminologies in genetics.
- 6: Describe the chromosome anomalies and associated diseases



B.Sc-III Year

SEMESTER-V

IMMUNOLOGY AND ANIMAL BIOTECHNOLOGY

After successfully completing this course, students will be able to learn the concepts in Immunology and fundamental principles of Biotechnology.

1. To remember how immune response is generated in humans to foreign antigens and B and T cell involved responses.
- 2: To apply the adverse effect of immune system including allergy, hypersensitivity and autoimmunity
- 3: To understand the Molecular Techniques used in Gene manipulation.
- 4: To evaluate the principles of recombinant DNA technology in medical sciences and industry.

SEMESTER-VI

ECOLOGY, ZOOGEOGRAPHY AND EVOLUTION

After successfully completing this course, students will be able to

1. understand the evolutionary mechanism - both selective and random - which can explain the genetic composition of populations, form, and distribution of organisms

- 2: To apply evolutionary hypothesis for a wide variety of biological phenomena.
- 3: To remember zoogeography and its application in conservation of species and biodiversity.



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Department of Political science

Programme Outcomes of Political science



On successful completion of 3 year B.A Political science course the students

- PO1 - BUILDING OVERALL CONSCIOUSNESS REGARDING NATIONAL POLITICAL HISTORY, INTERNATIONAL RELATIONS AND PRESENT INDIAN AND WESTERN POLITICAL THINKERS.
- PO2 - UNDERSTANDING THE NATURE AND DEVELOPMENTS IN NATIONAL AND INTERNATIONAL POLITICS .
- PO3 - ANALYSING THE INDIAN CONSTITUTIONAL PROVISIONS, MAJOR LEGISLATIONS AND REFORMS.
- PO4 - USE OF CASE STUDY METHOD FOR ANALYSING THE WORKING OF IMPORTANT INTERNATIONAL AND REGIONAL ORGANISATIONS LIKE UN, EU, ASEAN ETC.
- PO5 - DEVELOPING KNOWLEDGE OF ADMINISTRATIVE STUDIES WITH SPECIAL REFERENCE TO INDIAN ADMINISTRATIVE STRUCTURES AND PRACTICES.
- PO6- EXAMINING INDIA'S FOREIGN RELATIONS WITH HER NEIGHBOURS AND GREAT POWERS

Course Outcomes of Political science

Semester I

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UNDERSTANDING POLITICAL THEORY:



- CO 1- ANALYSING WHAT IS POLITICS AND EXPLAINING THE APPROACHES TO THE STUDY OF POLITICAL SCIENCE- NORMATIVE, BEHAVIORAL, POST BEHAVIORAL, FEMINIST.
- CO 2 - ASSESSING THE THEORIES OF STATE (ORIGIN, NATURE, FUNCTIONS): CONTRACT, IDEALISTIC, LIBERAL AND NEO – LIBERAL THEORIES .
- CO 3 - EXPLAINING THE CONCEPT OF STATE SOVEREIGNTY: MONISTIC AND PLURALISTIC THEORIES.
- CO 4 - UNDERSTANDING BASIC CONCEPTS OF LIBERTY, EQUALITY, RIGHTS, LAW AND JUSTICE.
- CO 5 - PLAINING DIALECTICAL MATERIALISM AND HISTORICAL MATERIALISM WITH SPECIAL REFERENCE TO RELATIONSHIP.

Semester II

WESTERN POLITICAL THOUGHT.

- CO 1- ANCIENT GREEK POLITICAL THOUGHT WITH FOCUS ON ARISTOTLE AND PLATO; ROMAN POLITICAL THOUGHT: ITS CONTRIBUTIONS WITH SPECIAL EMPHASIS ON THE EMERGENCE OF ROMAN LAW.
- CO 2 - EXAMINING THE FEATURES OF MEDIEVAL POLITICAL THOUGHT.
- CO 3- CRITICALLY EXAMINING BODIN'S CONTRIBUTIONS TO THE THEORY OF SOVEREIGNTY; HOBBS AS THE FOUNDER OF THE SCIENCE OF MATERIALIST POLITICS; LOCKE AS THE FOUNDER OF LIBERALISM WITH FOCUS ON HIS VIEWS ON NATURAL RIGHTS, PROPERTY AND CONSENT; AND ROUSSEAU'S VIEWS ON FREEDOM AND DEMOCRACY;
- CO 4 - BENTHAM'S UTILITARIANISM; AND JOHN STUART MILL'S VIEWS ON LIBERTY AND REPRESENTATIVE GOVERNMENT.
- CO 5 - TAKING AN INSIGHT INTO THE FOLLOWING: HEGEL'S VIEWS ON CIVIL SOCIETY AND STATE; UTOPIAN AND SCIENTIFIC SOCIALISM: BASIC CHARACTERISTICS.

Semester III

INDIAN POLITICAL THOUGHT

- CO 1 - TRACING THE EVOLUTION OF INDIAN POLITICAL THOUGHT FROM ANCIENT INDIA TO MODERN INDIA.
- CO 2- ANALYSING THE NATIONALIST THOUGHT OF RAJA RAMMOHUN ROY.
- CO 3 - DISCUSSING THE NATIONALISM OF GANDHI, M. N. ROY, NARENDRA DEVA AND SYED AHMED KHAN.

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FOR WOMEN, MAMAMIDI

CO 4 - ANALYSING THE GANDHIAN MOVEMENTS SUCH AS THE KHILAFAT, NON COOPERATION, CIVIL DISOBEDIENCE MOVEMENTS.

CO 5 - DESCRIBING THE MOVEMENTS AGAINST CASTE AND UNTOUCHABILITY, AMBEDKAR'S VIEWS ON SOCIAL JUSTICE AND THE DEPRESSED CLASSES.



Semester IV

CONSTITUTION AND POLITICS OF INDIA

CO 1 - INTRODUCING THE INDIAN CONSTITUTION WITH A FOCUS ON THE ROLE OF THE CONSTITUENT ASSEMBLY AND EXAMINING THE ESSENCE OF THE PREAMBLE.

CO 2 - EXAMINING THE FUNDAMENTAL RIGHTS AND DUTIES OF INDIAN CITIZENS WITH A STUDY OF THE SIGNIFICANCE AND STATUS OF DIRECTIVE PRINCIPLES.

CO 3 - ASSESSING THE NATURE OF INDIAN FEDERALISM WITH FOCUS ON UNION-STATE RELATIONS.

CO 4 - CRITICALLY ANALYZING THE IMPORTANT INSTITUTIONS OF THE INDIAN UNION: THE EXECUTIVE: PRESIDENT; PRIME MINISTER, COUNCIL OF MINISTERS; GOVERNOR, CHIEF MINISTER AND COUNCIL OF MINISTERS; THE LEGISLATURE: RAJYA SABHA, LOK SABHA, SPEAKER, COMMITTEE SYSTEM, STATE LEGISLATURE, THE JUDICIARY: SUPREME COURT AND THE HIGH COURTS: COMPOSITION AND FUNCTIONS- JUDICIAL ACTIVISM.

CO 5 - CRITICALLY EVALUATING THE INDIAN PARTY SYSTEM – ITS DEVELOPMENT AND LOOKING AT THE IDEOLOGY OF DOMINANT NATIONAL PARTIES .

Semester V

INTERNATIONAL RELATIONS.

CO 1 - APPROACHES AND METHODS TO STUDY THE DISCIPLINE THROUGH POLITICAL REALISM, PLURALISM AND WORLD'S SYSTEM'S MODEL.

CO 2.- STUDYING THE ROLE OF DIPLOMACY, PROPAGANDA AND MILITARY CAPABILITIES IN THE MAKING OF FOREIGN POLICY.

CO 3 - DESCRIBING THE COLD WAR PHASES AND UNDERSTANDING THE POST-COLD WAR ERA.

CO 4 - EXAMINING INDIAN FOREIGN POLICY: BASIC PRINCIPLES, EVOLUTION AND BILATERAL RELATIONS.

CO 5- EVALUATING THE WORKING OF UN AND ITS ORGANS; PEACE KEEPING FUNCTION AND HUMAN RIGHTS..

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Semester VI



GLOBAL POLITICS

- CO 1 - ANALYSING COLD WAR AND ITS EVOLUTION.
- CO 2 - EXAMINING GLOBALISATION CONCEPTION AND PERSPECTIVE.
- CO 3 - EXAMINING EUROPE IN TRANSITION, EUROPEAN UNION, BREXIT (OVER VIEW)
- CO 4 - OVERVIEWS OF MAJOR INSTITUTION OF GLOBAL GOVERNANCE WORLD BANK, IMF, WTO ETC. & MAJOR REGIONAL ORGANISATION LIKE ASEAN, OPEC, SAFTA, SAARC.

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TELANGANA SOCIAL WELFARE RESIDENTIAL DEGREE COLLEGE
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DEPARTMENT OF TELUGU

COURSE & PROGRAM OUTCOMES OF TELUGU



PROGRAM OUTCOMES:

- PO1: The Program inculcates language, oratory and literary skills in the student and gives scope to get command over all the major dialects of Telugu language.
- PO2: It helps to understand the classical and modern literature and also major Genres like Story, Novel and Poetry etc. So that they can prove their talents in story writing and poetry writing etc.
- PO3: This program gives path to Higher Studies to fulfill their interests in Literature field and caters the needs of competitive exams at both state and central services like Gr-I, Gr-II, Civil Services and other state services recruitment exams.
- PO4: It establishes their career as language teachers at different academic levels, as freelance writers, reporters, editors, journalists in print media, as anchors, radio jockeys, ghost writers in electronic media, as script, song, dialogue writers in both small & Silver screen industries.

COURSE OUTCOMES:

- ❖ C01: By studying Ancient Poetry of Pothana, Spirituality, Telugu Tradition and Culture will be Improved.
- ❖ C02: The study of Mother Tongue and Literature Improves Personality Development.
- ❖ C03: To gain the knowledge of modern Literature.
- ❖ C04: Students can gain the knowledge in literature and it develops the social awareness.

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- ❖ C05: It develops interest in history, tradition, culture and enhances moral values and incorporates good personality.
- ❖ C06: It will enhance the Linguistics , Letter Writing and Reading Skills.
- ❖ C07: Students Vocabulary will be developed and also develop Social awareness.
- ❖ C08: Student's Psychological development will be improved. Moral values will be developed.
- ❖ C09: By reading Journalism, students get the job opportunities and also know about the Media. It will helpful to become a Journalist.
- ❖ C010: By Studying students will get idea about Translation and get opportunities in Different fields.

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DEPARTMENT OF BOTANY PROGRAMME & COURSE OUTCOMES OF B.SC BOTANY UNDER CBCS



PROGRAMME OUT COMES:

- PO1: Student is able to understand and analyse morphological, anatomical and reproductive behaviour of both non flowering and flowering plants.
- PO2: Student is able to understand different metabolic processes happening in plant cell
- PO3: Student can analyse the pattern of inheritance and have the knowledge regarding the molecular basis of inheritance.
- PO4: Student will have a knowledge regarding the complexity of ecosystem and importance of bio diversity and its conservation.
- PO5: Student is able to understand the process of vertical gene transfer and process of plant tissue culture, organ culture and micropropagation.

COURSE OUT COMES

SEMESTER -I MICROBIAL DIVERSITY AND LOWER PLANTS -I

On the completion of the course, Students will be able to:

- CO1: Student will have knowledge regarding the origin of life and how the evolution has progressed by studying the different earlier life forms.
- CO2: By studying the thallus structure and life cycles of non-flowering plants he can understand how the complexity has been increased during the process of evolution.
- CO3: Student can analyse different plant communities basing on their vegetative and reproductive structures.

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SEMESTER –II
GYMNOSPERMS, TAXONOMY OF ANGIOSPERMS AND ECOLOGY –II



On the completion of the course, Students will be able to:

- CO1: By studying the earlier seed bearing plants Gymnosperms he can understand the process of evolution forming the flowering plants.
- CO2: The student can compare the morphological and evolutionary trends among the flowering plants. He can identify and assign the plants to their respective systematic position.
- CO3: Student can conceptualize the nature, ecosystem, their behaviour and complexity.

SEMESTER –III
ANATOMY AND EMBRYOLOGY –III

On the completion of the course, Students will be able to:

- CO1: Student can understand anatomical features of different plant organs microscopically.
- CO2: Student can ascertain how the environmental conditions and adaptive behaviour of plants led to anatomical changes in plant organs.
- CO3: Student can be in a position to understand the basic embryological behaviour of Angiosperms like gametogenesis, fertilization and development of embryo in Angiosperms.

SEMESTER –IV
CELL BIOLOGY & PLANT PHYSIOLOGY –IV

On the completion of the course, Students will be able to:

- CO1: Student will have knowledge regarding the plant cell structure, cell division, and behaviour of chromosomes during cell division.
- CO2: Student will understand the pattern of inheritance and also have knowledge regarding Mendelian and non Mendelian pattern of inheritance. He will also have an idea regarding the molecular basis of inheritance.
- CO3: Student will have the knowledge regarding the different physiological processes happening in plant and how various bio chemical molecules interact and function.

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**SEMESTER -V
BIO DIVERSITY**



On the completion of the course, Students will be able to:

CO1: Student will have the knowledge regarding the concept of biodiversity and its importance to humankind. He will also have knowledge regarding the geographical regions of world and India with reference to their biological diversity and ecological sensitivity.

CO2: Student will also have knowledge regarding the conservation of bio diversity both in situ and ex situ.

**SEMESTER -VI
PLANT TISSUE CULTURE**

On the completion of the course, Students will be able to:

CO1: Student is able to understand the phenomena of totipotency, plant tissue and organ culture and the process of micropropagation.

CO2: Student will have the basic knowledge regarding the rDNA technology and the methods of producing transgenic plants. He will understand the process of vertical gene transfer.

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DEPARTMENT OF MATHEMATICS
PROGRAMME & COURSE OUTCOMES OF
B.SC MATHEMATICS UNDER CBCS

PROGRAMME OUTCOMES:

Upon completing the B. SC degree in the field of Mathematics, students have/capable of:

- PO1: A solid understanding of graduate level Differential and Integral Calculus, Differential Equations, Algebra, Real Analysis, Linear Algebra and Numerical Analysis.
- PO2: Using their mathematical knowledge to analyze certain problems in day to day life.
- PO3: Identifying unsolved yet relevant problems in a specific field.
- PO4: Undertaking original research on a particular topic.
- PO5: Communicate mathematics accurately and effectively in both written and oral form.


COURSE OUTCOMES FOR MATHEMATICS

SEMESTER I

DIFFERENTIAL AND INTEGRAL CALCULAS

Course Outcomes: Upon the successful completion of the course students will:

- CO1: Interpret equations and graphs of the basic classes of functions
- CO2: Interpret the mean value theorem
- CO3: Analyse inverse functions
- CO4: Examine exponential, logarithmic, and hyperbolic functions
- CO5: Interpret the mean value theorem
- CO6: Calculate the areas of curved regions by using integration methods
- CO7: Find the volume of a solid of revolution using various methods
- CO8: Apply the differentiation rules to determine a derivative


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SEMESTER II
BS201: DIFFERENTIAL EQUATIONS



Course Outcomes: Upon the successful completion of the course students will:

CO1: Classifies the differential equations with respect to their order and linearity

CO2: Solves exact differential equations.

CO3: Converts separable and homogeneous equations to exact differential equations by Integrating factors.

CO4: Solves Bernoulli and Ricatti differential equations.

CO5: Will be able to find solution of higher-order linear differential equations.

CO6: Will be able to solve systems of linear differential equations

CO7: Will be able to use the Laplace transform in finding the solution of linear differential equations.

CO8: Expresses the inverse Laplace transform. Finds Laplace transforms solution of linear differential equation with constant coefficients.

SEMESTER III
REAL ANALYSIS

Course Outcomes: Upon the successful completion of the course students will:


CO1: Students will be able to demonstrate competence with the algebraic and order properties of real numbers.

CO2: Students will be able to demonstrate competence with properties of real numbers by finding supremum and infimum of sets and using the completeness property of real numbers.

CO3: Students will be able to demonstrate competence with elementary properties of sequences by finding limits and proving results involving sum/difference/product/quotients of sequences.

CO4: Students will be able to apply the monotone convergence theorem to prove convergence of bounded monotone sequences.

CO5: Students will be able to demonstrate ability to use Taylor Theorem, the Mean Value Theorem, and use L-Hospital's Rule to compute limits of functions learn the topology of the real line


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SEMESTER IV

ALGEBRA

Course Outcomes: Upon the successful completion of the course students will:

CO1: Polar representation of complex numbers, n th roots of unity, De Moiré's theorem for rational indices and its applications. Direct and inverse circular form of trigonometric and hyperbolic functions.

CO2: Well-ordering property of positive integers, division algorithm, divisibility and Euclidean algorithm. Congruence relation between integers.

CO3: Equivalence relations and partitions. Functions, composition of functions, Invertible functions, one to one correspondence and cardinality of a set.

CO4: Permutations, cycle notation for permutations, even and odd permutations.

CO5: Definition and elementary properties of groups. Symmetries of a square, dihedral groups, quaternion groups (through matrices). Permutation group, alternating group, finite groups. The group of integers under addition modulo n and the group of units under multiplication modulo n .

CO6: Order of an element, order of a group, simple properties. Understand the fundamentals of Graphs

SEMESTER V

LINEAR ALGEBRA

Course Outcomes: Upon the successful completion of the course students will:

CO1: Be able to gain proficiency in solving systems of Linear equations using matrices and demonstrate a working knowledge of algebraic properties of matrices.

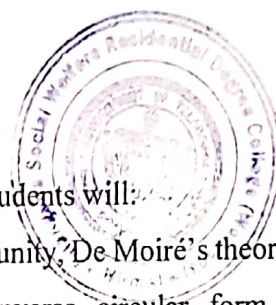
CO2: Be able to understand Euclidean Vector spaces, their inherent and algebraic structure and the accompanying geometry.

CO3: Be able to prove Cayley- Hamilton theorem, Schwartz inequality, Gram Schmidt orthogonalization process

CO4: Be able to define Linear Transformations and find the domain, range, kernel, rank, and nullity of a linear transformation.

CO5: Be able to apply vectors, inner products, and linear transformations to real world situations.

CO6: Use computational techniques and algebraic skills essential for the study of systems of Linear equations, matrix algebra, vector spaces, eigenvalues and eigenvectors, Orthogonality and Diagonalization



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SEMESTER VI
NUMERICAL ANALYSIS

Course Outcomes: Upon the successful completion of the course students will:

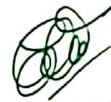
CO1: Some numerical methods to find the zeroes of nonlinear functions of a single variable and solution of a system of linear equations, up to a certain given level of precision.

CO2: Interpolation techniques to compute the values for a tabulated function at points not in the table.

CO3: Applications of numerical differentiation and integration to convert differential equations into difference equations for numerical solutions.

CO4: Learn various methods of numerical differentiation and integration.

CO5: Choose appropriate numerical methods and determine the solutions to ordinary differential equations.



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DEPARTMENT OF COMMERCE



Programme Outcomes:

After completing bachelor programme in Commerce, (B.Com General and B.Com Computers) a student will be able to develop:


PO 1	Business skills: This course is designed to provide students with a wide range of Business skills and understanding in streams like Auditing, Finance, Business Statistics, Accounting, Taxation and Management.
PO 2	Communication Skills: Ability to communicate ideas effectively in both written and oral formats and develops to communicate with others effectively.
PO 3	Critical Thinking: Develops the ability to completely evaluate new ideas, research findings in evaluation to business and commerce related issues.
PO 4	Managerial Skills: Ability to complete knowledge into performance makes business decision through capability to interact, motivate and understand the concepts, develops the ideas and implement the strategies.
PO 5	Entrepreneur skills: This course prepares an individual graduate to start a business of her own in the capacity of an entrepreneur.

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(B.COM Computer Application & B.Com General)
Course Outcomes

SEMESTER-I	
Paper Name	Outcomes: After completion of the course the student should be able to
Financial Accounting-I	<p>CO 1 : At the end of the course the student will be able to; Understand the concept of consignment and learn the accounting treatment of the various aspects of consignment.</p> <p>CO 2 : Analyze the accounting process and preparation of accounts in consignment and joint venture.</p> <p>CO 3 : Distinguish Joint Venture and Partnership and to learn the methods of maintaining records under Joint Venture.</p> <p>CO 4 : Determine the useful life and value of the depreciable assets and maintenance of Reserves in business entities.</p> <p>CO 5 : Design an accounting system for different models of businesses at his own using the principles of existing accounting system.</p>
Business Organization and Management	<p>CO 1 : At the end of the course, the student will be able to Understand different forms of business organizations.</p> <p>CO 2 : Comprehend the nature of Joint Stock Company and formalities to promote a Company.</p> <p>CO 3 : Describe the Social Responsibility of Business towards the society.</p>


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	<p>CO 4: Critically examine the various organizations of the business firms and judge the best among them.</p> <p>CO 5: Design and plan to register a business firm. Prepare different documents to register a company at his own.</p> <p>CO 6 : Articulate new models of business organizations.</p>
FOREIGN TRADE	<p>CO 1: Compare at the level of formal analysis, the major models of international trade and be able to distinguish between them in terms of their assumptions and economic implications.</p> <p>CO2: Employ the principle of comparative advantage and its formal expression and interpretation within different theoretical models.</p> <p>CO3: Apply partial equilibrium and (where required) general equilibrium models in analyzing the economic effects of (a) trade policy instruments such as tariffs, quotas, export subsidies, (b) retaliatory measures such as anti-dumping duties and countervailing duties (c) the creation of regional trading arrangements such as free trade areas, customs unions and common market.</p>

SEMESTER-II	
Paper Name	Outcomes: After completion of the course the student should be able to
Financial Accounting-II	<p>CO 1 :Analyse the essentials of bill of exchange and its accounting treatment.</p> <p>CO 2 : Learn the accounting treatments in consignments, commission, Bad debts, valuation of unsold stock and calculation of normal and abnormal</p>

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	<p>loss.</p> <p>CO 3 : Prepare joint venture accounts and methods of maintaining accounts.</p> <p>CO 4 : Understand the methods of calculating profits under single entry System.</p> <p>CO 5 : Understand the accounts of Non-Trading concerns.</p>
BUSINESS LAW	<p>CO 1: At the end of the course, the student will able to; Understand the legal environment of business and laws of business.</p> <p>CO2: Highlight the security aspects in the present cyber-crime scenario.</p> <p>CO3: Apply basic legal knowledge to business transactions.</p> <p>CO 4: Understand the various provisions of Company Law.</p> <p>CO 5 :Engage critical thinking to predict outcomes and recommend appropriate action on issues relating to business associations and legal issues.</p> <p>CO 6: Integrate concept of business law with foreign trade.</p>
BANING AND FINANCIAL	<p>CO 1: The course provides a complete package of finance and financial</p>



SERVICES

services related subjects so that the students are well equipped with the functional aspects of the various types of financial products and services available in our country.

CO2: The curriculum provides knowledge about banking, insurance, investments and portfolio management, international finance etc.

CO3: The course offers vast employment potential in the banking sector, insurance sector, investment and merchant banking activities, capital markets, share Broking and derivatives market.

CO 4: The course provides the knowledge about Mutual fund.

CO 5 The subject of finance, provides the knowledge about Credit Ratings

SEMESTER-III

Paper Name	Outcomes: After completion of the course the student should be able to
	CO 1: At the end of the course, the student will able to; Understand the concept of Non-profit organizations and its accounting process CO 2: Comprehend the concept of

<p>ADVANCED ACCOUNTING</p>	<p>single-entry system and preparation of statement of affairs.</p> <p>Co 3: Familiarize with the legal formalities at the time of dissolution of the firm.</p> <p>CO 4: Prepare financial statements for partnership firm on dissolution of the firm.</p> <p>CO 5: Employ critical thinking skills to understand the difference between the dissolution of the firm and dissolution of partnership</p>
<p>BUSINESS STATISTICS-I</p>	<p>CO1: Understand the importance of Statistics in real life.</p> <p>CO 2: Formulate complete, concise, and correct mathematical proofs.</p> <p>CO3: Frame problems using multiple mathematical and statistical tools, measuring relationships by using standard techniques.</p> <p>CO4: Build and assess data-based models.</p> <p>CO5: Learn and apply the statistical tools in day life.</p> <p>CO6: Create quantitative models to solve real world problems in appropriate contexts.</p>
<p>FINANCIAL INSTITUTIONS AND MARKETS</p>	<p>CO1: Understand the structure and classification of capital market and analyse about Indian securities market.</p> <p>CO 2: Analyse about the Intermediaries in the financial market, methods through which the capital fund has been raised.</p> <p>CO 3: Understand the functions of stock</p>



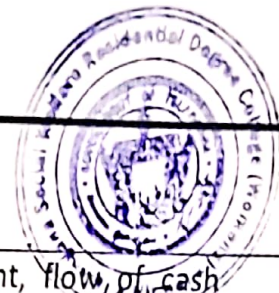
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SEMESTER-VI

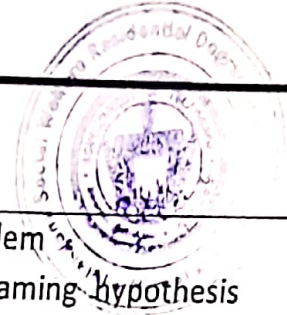
Paper Name	Outcomes: After completion of the course the student should be able to
Theory and practice of GST	<p>CO1: Understand the basic principles underlying the Indirect Taxation Statutes.</p> <p>CO 2: Examine the method of tax credit. Input and Output Tax credit and Cross Utilization of Input Tax Credit.</p> <p>CO3: Identify and analyze the procedural aspects under different applicable statutes related to GST.</p> <p>CO 4: Compute the assessable value of transactions related to goods and services for levy and determination of duty liability.</p> <p>CO5: Develop various GST Returns and reports for business transactions in Tally.</p>
Cost Control and Management	<p>CO1: Knowledge on concepts of managerial accounting, marginal costing, and approaches for managerial decision-making process</p> <p>CO2: Learn to forecast budgets, compare budgeted and actual, practiced budgetary control through variances.</p> <p>CO3: Practiced techniques and applied ratios to determine the financial performance of the business.</p> <p>CO4: The importance of working</p>

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	<p>capital management, flow of cash through various sources and applications are imparted and practiced.</p> <p>C05: Practice of financial statement analysis</p>
Accounting Standards	<p>CO1: To discuss the existing accounting theory practices to obtain a better understanding of them.</p> <p>CO2: To discuss the financial position, changes in financial position, performance of entities which is very important for the purpose of economic decision making.</p> <p>CO3: To identify the transparency, reliability, consistency and comparability of financial statements.</p> <p>CO4: To know the reliability and comparability that a reporting entity provides regarding acquisition and consolidations.</p> <p>CO5: To compare and understand the differences in the Financial reporting across the globe</p>
Research Methodology and Project Report	<p>CO1: Students will learn the importance of research and research methodology, as well as to analyze the issues that arise during social science research.</p> <p>CO2: Learn to identify research problem and plan a research design.</p> <p>CO3: Knowledge of determining sample size, data sources based on</p>

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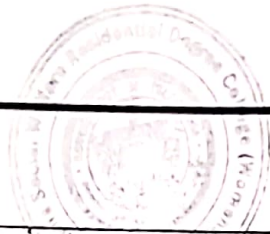


the research problem

CO4: Imparted framing hypothesis and relevant statistical tools to be applied for authentication of the study.

CO5: Skills for writing project report are acquired.

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<p>COMPUTERIZED ACCOUNTING</p>	<p>CO1: Gain the practical knowledge, implementation and operation of business with computer applications.</p> <p>CO2: Work with simple formula for computation of Statement of Accounts.</p> <p>CO 3: Achieve hands-on experience with productivity/application software to enhance business activities.</p> <p>CO4 : Accomplish projects utilizing.</p> <p>CO5: Business theories, teamwork, Internet resources and computer technology.</p>
<p>AUDITING</p>	<p>CO1: Understanding the meaning and necessity of audit in modern era.</p> <p>CO2: Comprehend the role of auditor in avoiding the corporate frauds.</p> <p>CO3: Identify the steps involved in performing audit process.</p> <p>CO4: Determine the appropriate audit report for a given audit situation.</p> <p>CO5: Apply auditing practices to different types of business entities.</p> <p>CO6: Plan an audit by considering concepts of evidence, risk and materiality.</p>

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DEPARTMENT OF ECONOMICS

PROGRAMME OUTCOMES OF

B.A ECONOMICS

1. The students will be familiarized with the broad contours of Economics and its methodologies, tools and its analysis.
2. Students will be able to analyze the economics and institutional arrangements of specific regions, countries, organizations, localities, industries or firms.
3. Students will develop a scientific approach towards varied branches of economics like modern banking, economic development and planning, micro economics etc.
4. Students will be able to evaluate economic issues and public policy by using economic models or data analysis while identifying underlying assumptions of the model(s) and limitations.
5. Students will be able to formulate informed opinions on policy issues and recognize the validity of opposing viewpoints.
6. Students will be able to effectively communicate and debate economic ideas and policies.


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COURSE OUTCOMES

B.A ECONOMICS



SEMESTER-

MICRO ECONOMICS

On the successful completion of the course the student will be able to

- Apply and analyze concepts and theories in micro economics
- Student will develop an ability to attempt questions in competitive examinations
- Students will be able to appraise and assess the theories in micro economics and apply them in real life situations
- Ability to develop an understanding of the subject areas in Economics with its intricacies and imperfections and to be able to construct intellectual dialogue.
- Ability to discuss and debate on the changing structures and theoretical developments in the subject.

MACRO ECONOMICS

SEMESTER –II

On the successful completion of the course the student will be able to

- The concepts of macro economics like opportunity cost, economic fluctuations etc.
- Students will be able to explain the concepts of National income, inflation and concepts related to inflation and unemployment, and how they are measured.
- Students will be able to explain the circular flow model and use the concepts of aggregate demand and aggregate supply to analyze the response of the economy to disturbances.
- Students will be able to describe the determinants of the demand for money, the supply of money and interest rates and the role of financial institutions in the economy.
- Students will be able to define fiscal and monetary policies and how these affect the economy

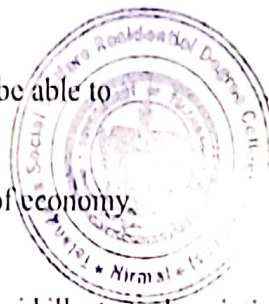
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STATISTICS FOR ECONOMICS

SEMESTER -III

On the successful completion of the course the student will be able to

- It enhances them to compute and assess the real situation of economy.
- Identifying graphical and numerical methods to calculate and illustrate descriptive statistics.
- To know about matrices, averages probability etc



INDIAN ECONOMY

SEMESTER -IV

On the successful completion of the course the student will be able to

- Identify the characteristics of Indian Economy as a Developing Economy
- Describe the Demographic Trends in India
- Write down the role of Industrialization in Indian Economy
- Understand the India's Foreign trade
- Describe the inflationary trends and impact of MNC's in Indian Economy

PUBLIC ECONOMICS

SEMESTER -V

On the successful completion of the course the student will be able to

- Understanding the meaning and functions of public finance
- Judging the progress of financial inclusion Measuring growth volume composition of public finance.


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DEVELOPMENT ECONOMICS

SEMESTER –VI

On the successful completion of the course the student will be able to

- Understanding the concept and aspect of development economics
- Knowing the theories of economic growth & development Measuring the concept and issue of economic planning
- Understanding the concept of various developmental techniques
- To study the international financial institutions



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DIST. : NIRMAL – 504106.**

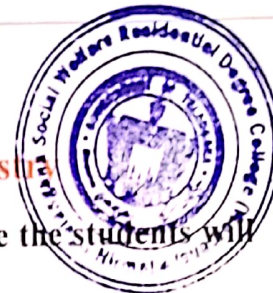


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Department of Chemistry

Programme Outcomes of B.Sc., Chemistry



On successful completion of 3 year B.Sc Chemistry course the students will be able to

- P01.** Know the fundamental concepts and practical applications of Chemistry
- P02.** Use the right methods for both qualitative and quantitative analytical laboratory and industries.
- P03.** Understand the various areas of chemistry viz., Organic, Inorganic, Physical, Biological and Medicinal Chemistry
- P04.** Understand the causes of environmental pollution and thereby applying environment friendly policies instead of environmentally hazard ones in every aspect.
- P05.** Develop critical thinking and to design, carry out, record and analyze the results of chemical reactions & to think and apply evidence based comparative chemistry approach to explain chemical synthesis and analysis.
- P06.** Learn how to synthesise, isolate and characterise substances using instrumental and chemical methods.
- P07.** Give a theoretical foundation and foster the development of practical abilities for material analysis utilising contemporary methods and instruments.
- P08.** Acquire in-depth information that enables to fulfil the demands of competitive exams for higher education and professional skills
- P09.** Act as team player by contributing in laboratory, field based situation and industry.


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Course Outcomes of B.Sc., Chemistry

Semester I

Unit-I _ Inorganic Chemistry

- To learn about Chemical bonding and Molecular structure, draw the plausible structures and geometries of molecules using Radius Ratio Rules, VSEPR theory and molecular orbital energy diagrams.
- To understand the importance and application of chemical bonds, intermolecular and intramolecular weak chemical forces and their effect on melting points, boiling points, solubility and energetics of dissolution
- To study the compounds of p-block elements, their synthesis, classification, reactivity and their uses



Unit-II _ Organic Chemistry

- To be well versed with all the fundamental concepts of organic chemistry such as bond fission and various types of bond polarization like inductive effect, mesomeric effect, hyper conjugation and their applications.
- To learn the classification and preparation of Alkanes, Alkenes, Alkynes and Aromatic Hydrocarbons and their reactivity.
- To learn about Huckel's rule of Aromaticity.

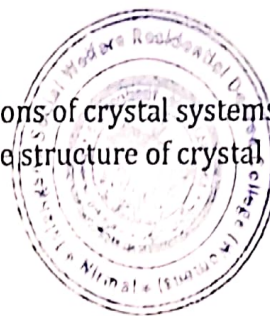
Unit-III _ Physical Chemistry

- To learn the elementary quantum mechanics, various laws associated with it.
- To own the ability to differentiate between real and ideal gases. Understand and deriving the mathematical expressions for ideal gas law, real gas law and comment on deviation from ideal behaviour.
- To understand the basics and advanced concepts related to state of matter i.e. Gaseous State, Liquid State.
- To derive the various mathematical expressions to define the physical properties of Liquids and Gases.
- To elaborate the chemistry of ideal and non-ideal solutions and apply the concept of phase equilibrium in various systems.

Unit-IV _ General Chemistry

- To identify various anions and cations present in the given inorganic salt and understand the principle behind their separation and identification such as Sodium Carbonate extract preparation, understanding the interfering ions, solubility product and common ion effect
- To learn about the isomerism and types of isomerism. To understand constitutional and conformational isomerism
- To study the conformational analysis of various compounds and understand their stability

- To understand the laws of crystallography, various definitions of crystal systems, XRD by crystals, derive Bragg's equation and determine the structure of crystal systems.



Semester II

Unit-I _ Inorganic Chemistry

- To explore the chemistry of Oxides, Oxyacids, Interhalogen compounds, Poly halides and Pseudohalogens of non-metals.
- To study the chemistry of zero group elements viz., isolation, structure, bonding of Xenon compounds & anomalous behaviour of He
- To understand the chemistry of d-block elements and comparative study of Ti, Cr & Cu triads.

Unit-II _ Organic Chemistry

- To design the synthesis of molecules of synthetic utility by functional group transformation.
- To learn about the classification, synthesis and reactivity of halogen compounds, alcohol, phenol, ether and carbonyl compounds
- To study important named reactions.

Unit-III _ Physical Chemistry

- To understand the conductance, molar and equivalent conductance and its variation with dilution.
- To study the migration of ions under the influence of external potential, theories of electrolyte dissociation, transport number and its determination
- To study the conductometric titrations and their applications
- To study about different types of cells, representation of an electrochemical cell, types of electrodes, electrochemical series and its significance
- To understand the applications of EMF measurements and study about potentiometric titrations

Unit-IV _ General Chemistry

- To know about principle, definitions and procedure of volumetric analysis i.e., titrimetric analysis, various types of titrations and their applications
- To study the various steps involved in gravimetric analysis and determine Ni^{+2} in the given sample.
- To understand stereoisomerism, chiral molecules, criteria for chirality, optical activity, R,S - configuration - C.I.P rules, asymmetric and dissymmetric molecules.
- To study about dilute solutions and colligative properties

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Semester III



Unit-I _ Inorganic Chemistry

- To study the chemistry of lanthanides and actinides and understand the general chemistry of inner transition elements with reference to electronic configuration, oxidation state, electrode potential, colour, electronic spectra. Complex formation tendency etc.
- To study the nomenclature of complexes, coordination number, various theories of bonding like Werner's theory, Sidgwick's theory, EAN rule, Valence Bond theory, isomerism and its types in coordination compounds
- To study the preparation and properties of metal carbonyls and understand their stability w.r.t. 18 valence electron rule
- To study the definition, nomenclature, classification, preparation methods, properties and applications of organometallic compounds

Unit-II _ Organic Chemistry

- To study the preparation, physical and chemical properties of Carboxylic acids and their derivatives and named reactions involved.
- To study the preparation of nitroalkanes, their reactivity, physical and chemical properties.
- To understand the classification, preparation, physical and chemical properties of amines, preparation of diazonium salts and their synthetic applications.
- To learn the structure, preparation and properties of cyanides and isocyanides

Unit-III _ Physical Chemistry

- To learn the terminology and definitions in thermodynamics, thermodynamic quantities-Intensive & Extensive properties, State Functions & Path Functions
- To understand the Laws of Thermodynamics, derive the various mathematical expressions of First Law, Second Law, cyclic process, Carnot's theorem, efficiency of heat engine, Third Law, ΔU , ΔH , ΔS , ΔG , ΔA for ideal and real gases under different conditions
- To be able to explain Enthalpies of reactions and derive the mathematical relations for these enthalpies of reaction.
- To be able to predict the spontaneous and non-spontaneous, reversible and irreversible reactions.
- To be able to write Gibbs equations and Maxwell relations

Unit-IV _ General Chemistry

- To understand the significant figures, accuracy, precision, errors-classification of errors

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- To be able to solve the problems related to mean, median, range and standard deviation.
- To understand the acidic nature of α -hydrogens, tautomerism in various compounds, stability of carbanions and synthetic applications of diethyl malonate and ethyl acetoacetate.
- To Learn the terminology in phase rule, Gibb's phase rule, phase equilibria of one component and two component systems .
- To learn the procedure to construct the phase diagram using cooling curves

Semester IV

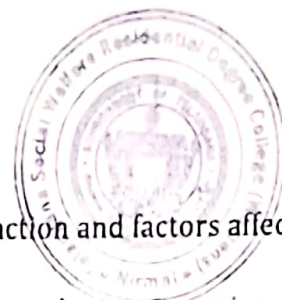
Unit-I _ Inorganic Chemistry

- To understand the Crystal Field theory, splitting patterns in octahedral, tetrahedral and square planar complexes
- To calculate the CFSE for various configurations, understand high spin and low spin complexes and their stabilities.
- To study the colour and magnetic properties of metal complexes and calculate the magnetic moments.
- To learn the methods to detect the complex formation.
- To understand the HSAB principle and its application in determining the complex formation
- To understand the thermodynamic and kinetic stability, stepwise and overall stability constants and their relationship
- To determine the composition of complex by Job's method and mole ratio.
- To study the applications of Coordination compounds.
- To understand the biological significance of various elements, study about the toxic metal ions, Structure and functions of Hb, structure of chlorophyll and fixation of CO_2 in photosynthesis, Z-scheme

Unit-II _ Organic Chemistry

- To understand the classification and nomenclature of carbohydrates.
- To study the structural elucidation of (+) glucose and (-) fructose and various methods for the interconversion of monosaccharides.
- To study the classification, synthesis, physical and chemical properties of aminoacids.
- To understand the structure, nomenclature of peptides and synthesis of dipeptides.
- To learn about the aromatic character, nature of heterocyclic compounds, their synthesis and reactivity.

Unit-III_ Physical Chemistry



- To understand the rate law, its expression, rate of reaction and factors affecting it.
- To know about the Order of reaction and derive integrated rate expressions for zero order, first order, pseudo first order and second order reactions, their half-life period, graphs and examples
- To understand the difference between thermal and photochemical reactions.
- To know about photochemistry, laws of photochemistry, quantum yield and its measurement
- To understand the photophysical and photochemical processes

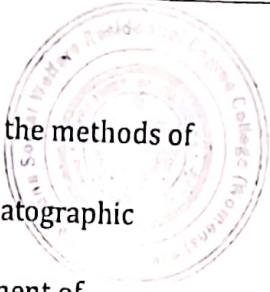
Unit-IV_ General Chemistry

- To understand the various theories of bonding in metals like Free Electron theory, VBT, MOT/Band theory.
- To learn about Mannich reaction, Michael addition, Knoevenagel condensation and the synthetic applications of EAA and Malonic ester
- To be able to define and classify colloids, learn the preparation and properties of different types of colloids viz., sols, emulsions, gels
- To understand various types of adsorption, factors influencing adsorption, adsorption isotherms and applications of adsorption.

Semester V

Spectroscopy and Separation Techniques

- To understand the Electromagnetic radiation, different regions of EMR, definition of spectroscopy and its types.
- To classify molecules based on moment of inertia and determine the bond length of rigid diatomic molecules
- To determine the force constant, modes of vibrations in polyatomic molecules.
- To understand the identification of functional groups with the help of characteristic absorption bands
- To know BMOs & ABMOs, electronic energy levels, types of electronic transitions, selection rules in electronic spectroscopy, Beer-Lambert's law and its limitations
- To understand the principle of ^1H NMR spectroscopy, terms such as chemical shift-factors affecting chemical shift, splitting of signals, coupling constant.
- To represent the ^1H NMR of various compounds and also determine the number of different types of protons from ^1H NMR spectral data
- To learn the principles of Mass Spectrometry, Nitrogen rule, Types of ions, types of peaks, representation of mass spectrum and determine the molecular formula of the compound from mass spectral data.

- 
- To understand the principle of solvent extraction and study the methods of extraction and applications
 - To define chromatography, study the classification of chromatographic methods, understand the principle of differential migration
 - To be able to perform TLC by preparing the plates, development of chromatogram, detection of spots and factors affecting the R_f values and identify the compounds through TLC
 - To understand the different types of paper chromatography, procedure and applications of PC
 - To be able to know the principle of column chromatography, procedure and applications of CC
 - To understand the principle of Ion-Exchange chromatography and its application in separation of ions and de-ionized water.
 - To know the principle, theory, instrumentation and applications of Gas Chromatography and High Performance liquid Chromatography

Semester VI

Medicinal Chemistry:

- To know what a disease is and different types of diseases.
- To know the terminology in Medicinal Chemistry like drug, API, Pharmaceuticals, Pharmacology, Pharmacophore, Pharmacodynamics, Pharmacokinetics, Metabolites, Anti metabolites and Therapeutic index.
- To study the nomenclature and classification of drugs based on structure and therapeutic activity.
- To learn and understand Absorption, Distribution, Metabolism and Excretion, Toxicity.
- To study the mechanism and factors affecting enzyme action, enzyme inhibition-types.
- To know what a receptor is, drug- receptor theory, Agonist and antagonist, understand the basic principles of drug-receptor interaction, binding roles of different functional groups and study the structural activity relationship of different classes of drugs.
- To understand the drug metabolic pathways, adverse effects and therapeutic value of drugs
- To study the synthesis and therapeutic activity of Chemotherapeutics, Drugs to treat metabolic disorders, drugs acting on nervous system.
- To learn about hormones and neurotransmitters, their functions
- To learn about vitamins and micronutrients- their sources, deficiency disorders and remedy for deficiency.



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Department of Microbiology

Affiliated to Kakatiya University (CBCS)

Programme Outcomes

PO1: Understanding of Basic Concepts: Students gain a solid understanding of fundamental concepts in microbiology, including topics such as bacteriology, virology, microbial physiology, genetics, and molecular biology.

PO2: Laboratory Skills: Students develop practical skills in handling microbes, conducting laboratory experiments, and using scientific instruments.

PO3: Application of Good Practices: Students learn about good laboratory practices and good manufacturing practices related to microbial quality control.

PO4: Problem Solving: Students acquire subject knowledge to address real-world issues such as bioremediation, waste management, and diagnostics.

PO5: Interdisciplinary Awareness: Students recognize the interdisciplinary nature of microbiology and its connections to other fields like biochemistry, botany, zoology, and biotechnology.

PO6: Communication Skills: Students enhance their communication skills, including reading, listening, and speaking, which are essential for expressing ideas clearly and effectively.

Course Outcomes

B.Sc. I year I-Semester Paper I Theory & Practical


Course Code: BS 104, DSC

Introductory Microbiology

CO1. Students will be able to learn and apply fundamental concepts and Methods in Microbiology. Know about the Contributions of Scientists in the field of Microbiology.

CO2. Students will understand and differentiate Microbial population by various Staining techniques and different Microscopic Observations

CO3: Students will be able to classify the Microorganisms into different Taxa. Able to know the growth and control of microbes and bacteriological techniques involved in Microbiology.


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CO4. Students will be able to compare the General Characteristics of different group of Microbes like Bacteria, Fungi, Protozoa, Algae and Virus.

CO5: Students will be able to perform Experiments and Develop laboratory Skills like Staining, Sterilization and Isolation techniques.



B.Sc. I year II-Semester Paper II Theory & Practical

Course Code: BS 204, DSC

Microbial Physiology and Biochemistry

CO1: Students will able to Conceptualise the contents of Microbial Nutrition and the different growth Phases.

CO2: Students will be able to apply the knowledge to understand Microbial Metabolism and Physiology. Gain the knowledge about Bacterial Photosynthesis and Microbial Respiration. To understand the central metabolism, energy conservation, macromolecular biogenesis, and metabolic events integration.

CO3: Students will gain knowledge about Macromolecules structure and functions and their applications in food and medicine.

CO4: Students will learn the experimental analysis of samples by Chromatographic and Electrophoretic Techniques.

CO5: Students will be able to perform Experiments and Develop laboratory Skills like Qualitative tests for carbohydrates, Amino acids, fats etc and Chromatographic Techniques.

B.Sc. II year III-Semester Paper III Theory & Practical

Course Code: BS 304, DSC

Medical Microbiology and Basics of Immunology

CO1: Students will able to learn about host and pathogen interactions and understand the Pathogenesis of Bacterial Airborne and Contact Diseases.

CO2: Graduates will also have an excellent understanding of the diversity of microorganisms causing diseases and mechanisms of disease pathogenesis of Viral, Protozoal and Insect Borne diseases.

CO3: Students will gain the knowledge about the immune system in humans and malfunction on host health. Able to Differentiate Primary and Secondary Immune organs.

CO4: The program integrates laboratory skills and knowledge needed to assess the immune system's functional status, Auto Immune Disorders, Hypersensitivity and laboratory techniques to diagnose and identify the disease.

CO5: Students will be able to perform Experiments and Develop laboratory Skills like enumeration of RBC, WBC, Haemoglobin etc


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B.Sc. II year IV-Semester Paper IV Theory & Practical

Course Code: BS 404, DSC

Molecular Biology and Microbial Genetics

CO1: Students will be able to differentiate between Prokaryotic and Eukaryotic Cells. Able to learn the principles and concepts Mendel Laws, as well as DNA and RNA as genetic Materials

CO2: Students will develop the knowledge about mutagenesis, mutations, and mutants, and recognize their significance in microbial evolution. They also understand the Gene transfer Techniques.

CO3: Student will be able to understand the Hypothesis and concepts of Gene. Able to gain the knowledge about Central Dogma of the Life that includes Transcription, Translation and Genetic Code.

CO4: Students will be able to analyse the Gene regulation in Bacteria and Compare the genes based on their Function and Regulation.

CO5: Students will be able to perform Experiments and Develop laboratory Skills like estimation of DNA, RNA, Isolation of DNA, Cell Division etc

B.Sc. III year V-Semester Paper V Theory & Practical

Course Code: BS 504, DSC

Industrial and Food Microbiology

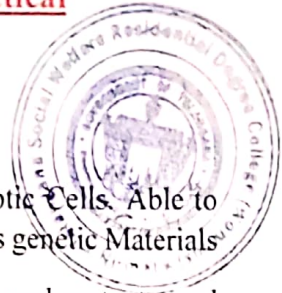
CO1: Students will obtain the knowledge about important microorganisms associated with Industrial Microbiology and their applications.


CO2: Students will apply their knowledge in different Downstream process and Preservation of Industrially important Microbial Strains.

CO3: To gain the essential knowledge and various techniques for Industrial Productions and to understand the role of different microorganisms in food spoilage, food fermentation, and foodborne diseases.

CO4: To learn about various techniques for enumeration and control of microorganisms in food, Food preservation, Probiotics and their applications

CO5: Students will be able to perform Experiments and Develop laboratory Skills like production and Estimation of Amylase, Citric Acid, Ethanol etc

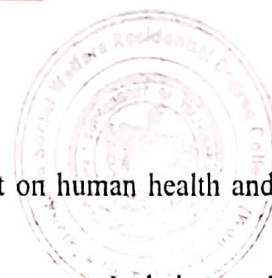



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B.Sc. III year VI-Semester Paper VI Theory

Course Code: BS 604, DSC

Environmental Microbiology



CO1: Able to understand the microorganisms in air and their impact on human health and environment

CO2: Able to understand the Sampling Techniques, Control Measures, Isolation and Cultivation of Air Borne Microorganisms.

CO3: Gains knowledge about water borne microorganisms and the diseases caused by them.

CO4: Develop the Laboratory skills to Analysis the Water quality and Portability. Able to understand about the Techniques of Water treatment.

CO5: Students will be able to perform Experiments and Develop laboratory Skills like estimation of BOD, COD, MPN etc.


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DEPARTMENT OF HISTORY

B.A. HISTORY UNDER CBCS

PROGRAM OUTCOMES:

PO 1: Capacity to explain how and why important events happen

PO 2: Understanding of the historical method of study

PO 3: A clear understanding of evidence collected from historical sources

PO 4: Critical understanding of developments in historiography

PO 5: Knowledge of the history of the India and 20th Century Modern World

PO 6: Informed familiarity with multiple cultures and diversity

PO 7: Awareness of current historical debates

PO 8: Understand the skills that historians use in research

COURSE OUTCOMES:

BA HISTORY I YEAR SEMESTER-I

COURSE TITLE: HISTORY OF

INDIA (From Earliest Times to c.700 C.E)

COURSE CODE: (BA -104)

After completion of this course students will be able to

CO 1: Discuss the landscape and environmental variations in Indian subcontinent and their impact on the making of India's history.

CO 2: Describe main features of prehistoric and proto-historic cultures

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CO 3: List the sources and evidence for reconstructing the history of Ancient India

CO 4: Analyse the way earlier historians interpreted the history of India and while doing so they can write the alternative ways of looking at the past

CO 5: List the main tools made by prehistoric and proto- historic humans in India along with their find spots. • Interpret the prehistoric art and mortuary practices.

CO 6: Discuss the beginning and the significance of food production.

CO 7: Analyse the factors responsible for the origins and decline of Harappan Civilization.

CO 8: Discuss various aspects of society, economy, polity and religious practices that are reflected in the Early Vedic and Later Vedic texts

BA HISTORY I YEAR SEMESTER-II

COURSE TITLE: HISTORY OF INDIA(700 C.E TO 1526 CE)

COURSE CODE: (BA -204)


After completion of this course students will be able to


CO 1: Outline important changes that took place in Europe from the medieval period.

CO 2: Acquire an integrated approach to the study of economic, social, political and cultural developments in Europe.

CO 3: Explain the processes by which major transitions unfolded in Europe's economy, state forms, social structure and cultural life. Examine elements of early modernity in these spheres.

CO 4: Critically analyse linkages between Europe's state system and trade and empire.




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BA HISTORY II YEAR SEMESTER-III


COURSE TITLE: HISTORY OF INDIA(1526 - 1857 CE)

COURSE CODE: (BA -305)



After completion of this course the student shall be able to

- CO 1: Critically evaluate major sources available in Persian and vernacular languages for the period under study.
- CO 2: Compare, discuss and examine the varied scholarly perspectives on the issues of the establishment, consolidation and nature of the Mughal state.
- CO 3: Explain the changes and continuities in agrarian relations, land revenue regimes, Bhakti and Sufi traditions.
- CO 4: Discuss how different means such as visual culture was used to articulate authority by the rulers.
- CO 5: Discern the nuances of the process of state formation in the areas beyond the direct control of the Mughal state and Know the Rise of Maratha Power under Shiviji, Emergence of Regional Power as well as the Rise of English East India Company in Bengal after the downfall of the Mughal Empire.
- CO 6: Explain the establishment of Company rule and important features of the early colonial regime.
- CO 7: Explain the peculiarities of evolving colonial institutions and their impact.
- CO 8: Discuss the social churning on questions of tradition, reform, etc. during first century of British colonial rule.


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BA HISTORY II YEAR SEMESTER-IV

COURSE TITLE: HISTORY OF INDIA(1858 - 1964 CE)

COURSE CODE: (BA -504)



After successful completion of the course, the students will be able to

CO 1: Identify how different regional, religious, linguistic and gender identities developed in the late 19th and early 20th centuries.

CO 2: Outline the social and economic facets of colonial India and their influence on the national movement.

CO 3: Explain the various trends of anti-colonial struggles in colonial India.

CO 4: Analyse the complex developments leading to communal violence and Partition.

CO 5: Discuss the negotiations for independence, the key debates on the Constitution and need for socio-economic restructuring soon after independence.


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BA HISTORY III YEAR SEMESTER -V

COURSE TITLE:

HISTORY OF THE MODERN WORLD (From 1453 CE - to 1964 CE)


COURSE CODE: (BA -606)



After successful completion of the course, the students will be able to

CO 1: Students will be able to analyze the historical developments in Europe between 1780-1939. As it focuses on the democratic & socialist foundations of modern Europe. They will be able to situate historical developments of socialist upsurge & the economic forces of the wars, other ideological shifts and to analyse the Rise of Fascism and the Nazism on the eve of the Second world war.

CO 2: Students will be able to understand the role of Print media to the growth of nationalism and the importance of Pre-Colonial and Post Colonial History of written records which help to know about the changing scenario of the world.


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BA HISTORY III YEAR SEMESTER -VI

COURSE TITLE:

HISTORY AND CULTURE OF TELANGANA
(From Earliest times to 2014 CE)

COURSE CODE: (BA -405)



After successful completion of the course, the students will be able to

CO 1: Telangana society, economy, and culture fairs, festivals, folk, bathukamma, bonalu, moharram, urs and all events, its historical background.

CO 2: Foundation of asafjhadidynasty, a brief survey of political history. Salarjungs reforms and modernisation of Hyderabad and all developments.

CO 3: Social, cultural and political awakening in Telangana press, journalism, library movements, nizam Andhra janasngam, aryasamaj, MIM and all activities.

CO 4: Bhagyareddyvarma and dalitmovements in Telangana.

CO 5: The andhramahasabha, hyd state congress, mulki nonmulkimovement, vandematarammovement and comrade association, student and workers associations.

CO 6: The role of women in Hyderabad freedom movement, aninizam and anti feudal movements, Telangana peasants armed struggle and the role of adivasis revolt, kumarambheem, razakars and their activities and communist party its activities.

CO 7: Formation of Hyderabad state popular ministry under bhurgula Ramakrishna rao, assertetionmulki identity, city college incident and merger of Telangana, formation of Andhra Pradesh.

CO 8: Discrimination, dissent, protest and violation of gentlemen's agreement, agitation of separate Telangana state, role Of TPS, JAC, intellectuals, students, employees in 1969 movement, second phase movement for separate Telangana.

CO 9: Formation of various associations Telangana aikyavedika, Telangana janasabha, TRS, mass mobilization, sakalajanulasamme, millennium march, sagara haram, cheloassembly, December 2009 declaration and the formation of Telangana state june 2014.