



Telangana Social Welfare Residential Degree College For Women, Nirmal

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Principal

Department Of Microbiology



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 microscopes, 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: 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.

B.Sc Microbiology Program Outcomes

Programme Specific Outcomes (PSOs)

- PSO1:** They were actively engaged in the functioning of this college.
- PSO2:** This disease was caused by a bacterium.
- PSO3:** It maintained that either the bacterium "Escherichia coli" passed through the feces or a toxin.
- PSO4:** They were engaged in the investigation of this disease.
- PSO5:** It was caused by a bacterium.
- PSO6:** It maintained that either the bacterium "Escherichia coli" passed through the feces or a toxin.

Curriculum Structure of B.Sc Microbiology (Semester wise)

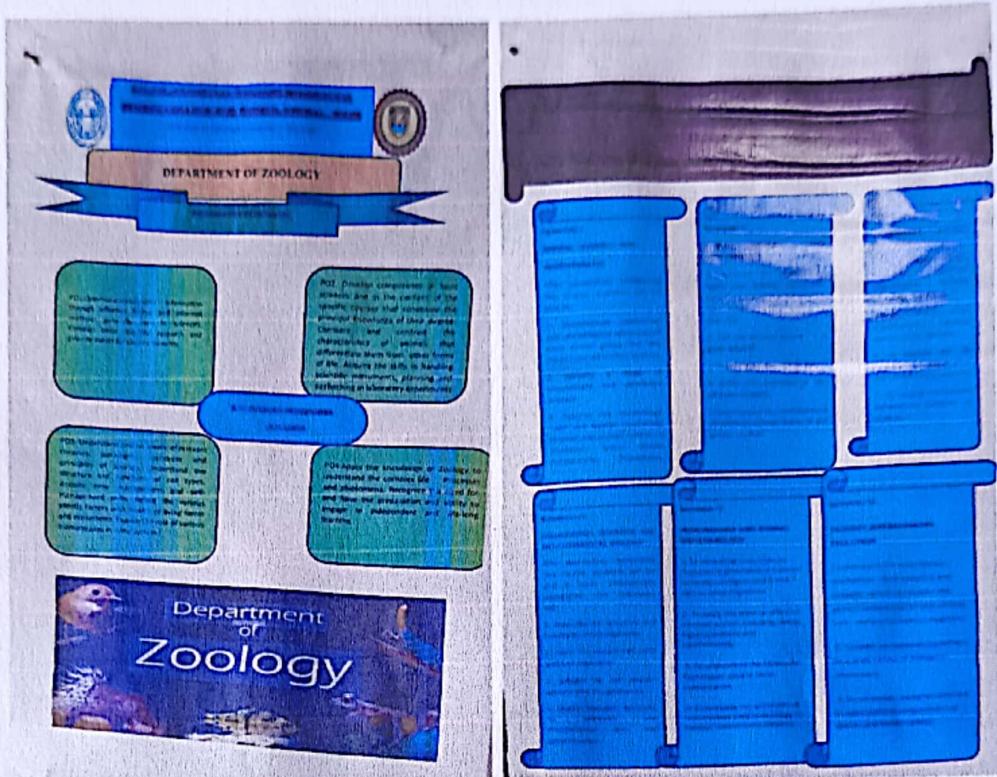
Semester	Microbiology and Biostatistics	Microbiology and Biochemistry	Microbiology and Environmental Microbiology
I	Microbiology and Biostatistics	Microbiology and Biochemistry	Microbiology and Environmental Microbiology
II	Microbiology and Biostatistics	Microbiology and Biochemistry	Microbiology and Environmental Microbiology
III	Microbiology and Biostatistics	Microbiology and Biochemistry	Microbiology and Environmental Microbiology
IV	Microbiology and Biostatistics	Microbiology and Biochemistry	Microbiology and Environmental Microbiology
V	Microbiology and Biostatistics	Microbiology and Biochemistry	Microbiology and Environmental Microbiology
VI	Microbiology and Biostatistics	Microbiology and Biochemistry	Microbiology and Environmental Microbiology

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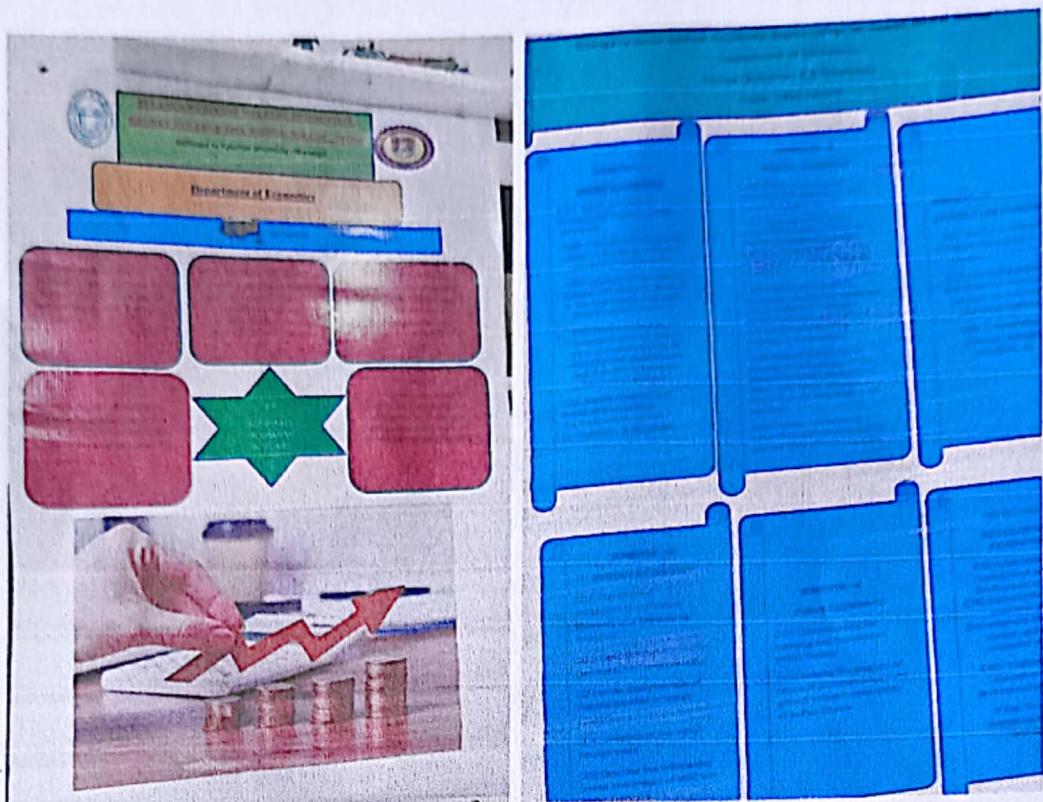
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Department Of Zoology



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Department Of Economics



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- PROGRAMME OUTCOMES
- 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


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DEPARTMENT OF MATHEMATICS

PROGRAMME & COURSE OUTCOMES OF B.Sc MATHEMATICS UNDER CBC

M.P.C (Mathematics, Physics, Chemistry) & M.S.C (Mathematics, Statistics, Computer Science)

PROGRAMME OUTCOMES

- Upon completing the B.Sc degree in the field of Mathematics, students have/able to:
- 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 analyse certain problems in day to day life.
 - PO3: Identifying unmet yet relevant problems in a specific field.
 - PO4: Undertaking original research in a particular topic.
 - PO5: Communicate mathematics accurately and effectively in both written and oral form.



COURSE OUTCOMES FOR MATHEMATICS

SEMESTER I
DIFFERENTIAL AND INTEGRAL CALCULUS

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

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

SEMESTER II
DIFFERENTIAL EQUATIONS

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

- CO1: Classify the differential equation with respect to their order and linearity.
- CO2: Solve linear differential equations.
- CO3: Convert separable and homogeneous equations to exact differential equations by integrating factors.
- CO4: Solve Bernoulli and Riccati 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.

SEMESTER III
REAL ANALYSIS

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

- CO1: Be able to demonstrate competence with the algebraic and order properties of real numbers.
- CO2: 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: able to demonstrate competence with elementary properties of sequences by finding limits and proving results involving sum/difference/product/quotient of sequences.
- CO4: able to apply the monotone convergence theorem to prove convergence of bounded monotone sequences.

SEMESTER IV
ALGEBRA

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

- CO1: Polar representation of complex numbers, nth roots of unity, De Moir's theorem for rational indices and its applications.
- 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).

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.

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 EDUCATION
EDUCATIONAL PROGRAMS FOR CHILDREN WITH DISABILITIES

After reading the following paragraph, identify and explain three ways in which
the author uses to get connected with the target audience and their
opinions in addition to the personal and unique experiences and their
beliefs, values, and interests from the story so that they can relate their belief to
their interests and identity effectively.

The author's personal experiences help readers to form their responses to
the story by connecting them to the situations and emotions within it through shared past
experiences and to the story's central themes and ideas about culture and
cultural diversity.

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APPENDIX B

2020-2021 学年上学期

Family History
Family History
Family History

卷之三

*Journal of
African Ameri-
can Studies*

卷之三

Learning and Education
6.11 Australia Vocabulary 200 kg described and say reciting lists pronunciation
6.12 Australia Vocabulary 200 kg described and say reciting lists pronunciation
6.13 Australia Vocabulary 200 kg described and say reciting lists pronunciation
6.14 Australia Vocabulary 200 kg described and say reciting lists pronunciation

卷之三

1998 *Key to Building*
plastering with gel lining
plaster transformation with
gel impregnation
plaster protection



(S.D)

Library

**Telangana Social Welfare Residential Degree
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Department of Commerce

Programme outcomes

PO1: Employment opportunities: B.Com(C&G) students will gain minimum employment for their livelihood in the areas of commercial services, financial markets, manufacturing, construction and service companies.

PO2: Critical Thinking: Develops the ability to completely evaluate new ideas, research findings in evaluation to business and commerce related issues.

PO3: 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

PO4: Entrepreneur skills: This course prepares an individual graduate to start a business of her own in the capacity of an entrepreneur.

PO5: 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.

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

COMMERCE




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