



DEPARTMENT OF BIOTECHNOLOGY

PROGRAM OUTCOMES, COURSE OUTCOMES, - BIOTECHNOLOGY.

PROGRAMME OUTCOME (PO)	PO1: Understand the concepts in biotechnology and demonstrate interdisciplinary skills acquired in cell biology. PO2: Demonstrate the laboratory skills in cell biology, basic and applied microbiology. PO3: Competent to apply the knowledge and skill gained in the fields of plant biotechnology, animal biotechnology. PO4: Critically analyze the environmental issue and apply the knowledge gained in biotechnology. PO5: Demonstrate comprehensive innovation and skill in the field of biomolecules ,cell biology, molecular biology , bioprocessing, etc.
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PROGRAMME SPECIFIC OUTCOME(PSO)	PSO1: Gain the knowledge and apply good laboratory and good manufacturing practices in Biotechnology. PSO2: Understand and apply molecular biology techniques and principles in forensic and clinical biotechnology. PSO3: Demonstrate entrepreneurship abilities, innovative thinking ,planning and setting up of small scale enterprises or CROs.
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COURSE OUTCOMES

DSC-T1BTC101 : CELL BIOLOGY AND GENETICS.	CO1: Understand concepts in biotechnology and demonstrate knowledge acquired in interdisciplinary skills in cell biology and genetics. CO2 : Comprehend the structure of cells with its organelles. CO3: Understand the chromatin structure and its location. CO4: Understand the basic principles of life and how a cell divides. CO5: Explain the organization of genes and chromosomes ,chromosome morphology and its aberration.
DSCT2BTC102 : MICROBIOLOGICAL METHODS.	CO1:To study the principle and application of important instrument [LAF] ,autoclave ,incubator ,bod, hot air oven , light microscope, etc.. used in microbiology lab. CO2: Sterilization of media using autoclave and assessment for sterility. CO3: Sterilization of glasswares using hot air oven and assessment for sterility. CO4: Understand concept in microbiology and demonstrate knowledge acquired in microbiological methods.
DSC-TBTC103 : BIOMOLECULES.	CO1: Demonstrate comprehensive issues and innovations and skills in the field of biomolecules ,cell organelles, molecular biology, and animals with respect to application for human welfare. CO2: Understanding and application of molecular biology techniques and principles in forensic and clinical biotechnology. CO3: Acquire knowledge about types of biomolecules ,structure and their function. CO4: Will be able to demonstrate the skill to perform bioanalytical techniques. CO5: Apply comprehensive innovation and skills of biomolecules to biotechnology field.

**BTC- 104 MOLECULAR
BIOLOGY.**

CO1: Learning and practicing professional skills in handling microbes, animal and plants demonstration the ability to identify ethical issues related to recombinant DNA method.

CO2: Study the advancement in molecular biology with latest trends.

CO3: Will acquire the knowledge of structure, functional relationship of proteins and nucleic acids.

CO4: Aware about the basic cellular processes such as transcription, translation, DNA replication and repair mechanisms.

CO5: Aware the knowledge about genes are responsible for heredity.