

# SCHOOL OF ARTS AND SCIENCE

## DEPARTMENT OF BIOTECHNOLOGY

### B.Sc. BIOTECHNOLOGY CURRICULUM

#### REGULATION 2022

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### DEPARTMENT OF BIOTECHNOLOGY

#### B.sc., CURRICULUM - REGULATION-2022

#### B.sc., Graduate Attributes

- Research, inquiry and analytical thinking abilities.
- Capability and motivation for intellectual development.
- Ethical, social and professional understanding.
- Communication in intra and inter disciplinary
- Teamwork, collaborative and management skills in scientific research
- Information literacy in respective discipline

#### B.sc., Program Educational Objectives PEO

- **PEO 1** : To obtain detailed information about the fundamentals of Biotechnology, allied subjects and life skills.
- **PEO 2** : To provide information about the molecular methods which involved in cellular processes of living systems such as microbes to higher order organisms for applied aspects. To address the emerging need for skilled scientific manpower with research ethics involving organisms.
- **PEO 3** : To impart the basics and current molecular tools in the areas of Molecular Diagnostics, Fermentation Technology, Plant, Animal & Environmental Biotechnology are included to train the students for man power development and also sensitize them to scope for research. The practical subjects will provide information about the careers in the industry and applied research where biological system is employed.
- **PEO 4** : To make the graduates of Biotechnology to learn and to adopt in a competitive world of technology update and contribute to all forms of life
- PEO5**- To enable them to excute a research objective through experimentation

#### B.Sc., Programme Specific Outcome (PSO)

- > **PSO1**- Graduates will exhibit contemporary knowledge in Biotechnology and students will be eligible for doing jobs in pharmaceutical and biotechnological Industry.
- > **PSO2**- An expert in biotechnology and allied fields (medical, microbial, agricultural, environmental, plant and animal ) for utilizing the practical skill to address biotechnological challenges.

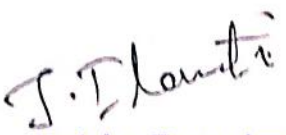
> **PSO3**- Graduates will be able to work individually as well as in team to survive in multidisciplinary environment.


> **PSO4**- If students will engage themselves in the process of effective learning, it will give

- opportunities to utilize acquired knowledge for the catering the needs of science and technology as well as for the betterment of human mankind.
- **PSO5**- Graduates will be able to understand the potentials, and impact of biotechnological innovations on environment and their implementation for finding sustainable solution to issues pertaining to environment, health sector, agriculture, etc.

### **Use, Program Outcome PO**

- **PO1**-Understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevancies in the day-to-day life
- **PO2**- Understanding and better knowledge of the causes, types and control methods for environmental pollution by the students.
- **PO3**-The student will be able to discuss the mechanisms associated with gene expression system in prokaryotes and eukaryotes.
- **PO4**-Developed various communication skills such as reading, listening, speaking etc.,
- **PO5**-Acquired the skills in handling scientific instruments, planning and performing in laboratory experiments
- **PO6**-Ethics: Convey and practice social, environmental and biological ethics.
- **PO7**-To get knowledge about research tools and learn to do review literature. Ability to carryout independent literature survey corresponding to the specific publications type and asses basic research tool

  
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**PRIST**  
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THANJAVUR - 613 403 - TAMILNADU

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Department of Biotechnology**

22UGBTGEC  
2022 Regulation

**Program Outcomes and Course outcomes of  
B.Sc., Mapping of COs and Pos**

Semester	Course Code	Title of the Course	COs	POS								
				PO1	PO2	PO3	PO4	PO5	PO6	PO7		
I	22110AEC11	Language-I (Tamil-I)	CO1 - Learn the changes that have occurred in literature since the classical period.	*		*	*		*			*
			CO2 - Make use of vocabulary systematically.	*	*	*		*	*	*	*	
			CO3 - Understand how to lead one's life realizing the modernity and its environment/atmosphere.	*	*	*		*	*	*	*	
I	22111AEC11	Advanced English-I	CO1 - Develop vocabulary	*	*	*		*	*	*	*	
			CO2 - Learn to edit and do proof reading	*	*	*		*	*	*	*	
			CO3 - Read and comprehend literature	*	*	*		*	*	*	*	
I	22111AEC12	English-I	CO1 - Read and comprehend literature	*	*	*		*	*	*	*	
			CO2 - Appreciate poetry and prose	*	*	*		*	*	*	*	
			CO3 - Familiarize students with fiction.	*	*	*		*	*	*	*	

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