



PRIST
DEEMED TO BE
UNIVERSITY
NAAC ACCREDITED
THANJAVUR - 613 403 - TAMILNADU

SCHOOL OF ARTS AND SCIENCE

DEPARTMENT OF BIOTECHNOLOGY

B.Sc. BIOTECHNOLOGY CURRICULUM

REGULATION 2020

Head of the Department
Department of Biotechnology
School of Arts & Science
Prist Deemed to be University, Thanjavur.

Dean of Arts & Science
PRIST Deemed to be University
Thanjavur - 613 403, Tamilnadu.



PRIST
DEEMED TO BE
UNIVERSITY
NAAC ACCREDITED
THANJAVUR - 613 403 - TAMILNADU

SCHOOL OF ARTS AND SCIENCE

DEPARTMENT OF BIOTECHNOLOGY

B.sc., CURRICULUM - REGULATION-2020

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

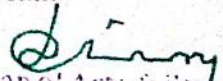
B.sc., Program Educational Objectives PEO

- **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 execute 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.

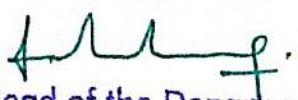

Head of the Department
Department of Biotechnology
School of Arts & Science
Prist Deemed to be University, Thanjavur

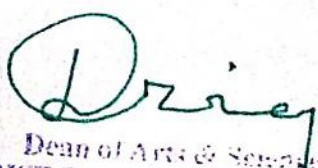

Dean of Arts & Science
PRIST Deemed to be University
Thanjavur - 613 403, Tamilnadu.

- **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.

B.sc., 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 carry out independent literature survey corresponding to the specific publications type and asses basic research tool


 Head of the Department
 Department of Biotechnology
 School of Arts & Science
 Prist Deemed to be University, Thanjavur.


 Dean of Arts & Science
 PRIST Deemed to be University
 Thanjavur - 613 403, Tamilnadu.



PRIST
DEEMED TO BE
UNIVERSITY
NAAC ACCREDITED
THANJAVUR - 613 403 - TAMILNADU

School of Arts and Science

Department of Biotechnology


20UGBTGEC

2020 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	20110AEC11	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	20111AEC11	Advanced English-I	CO1 - Develop vocabulary CO2 - Learn to edit and do proof reading CO3 - Read and comprehend literature	*	*	*	*	*	*	*	*
I	20111AEC12	English-I	CO1 - Read and comprehend literature CO2 - Appreciate poetry and prose CO3 - Familiarize students with fiction.	*	*	*	*	*	*	*	*


Head of the Department
Department of Biotechnology
School of Arts & Science
Prist Deemed to be University, Thanjavur.


Dean of Arts & Science
Prist Deemed to be University
Thanjavur - 613 403, Tamilnadu



PRIST
DEEMED TO BE
UNIVERSITY
NAAC ACCREDITED
THANJAVUR - 613 403 - TAMILNADU

SCHOOL OF ARTS AND SCIENCE

DEPARTMENT OF BIOTECHNOLOGY

B.Sc. BIOTECHNOLOGY CURRICULUM

REGULATION 2020

Head of the Department
Department of Biotechnology
School of Arts & Science
Prist Deemed to be University, Thanjavur.

Dean of Arts & Science
PRIST Deemed to be University
Thanjavur - 613 403, Tamilnadu.



PRIST
DEEMED TO BE
UNIVERSITY
NAAC ACCREDITED
THANJAVUR - 613 403 - TAMILNADU

SCHOOL OF ARTS AND SCIENCE

DEPARTMENT OF BIOTECHNOLOGY

B.sc., CURRICULUM - REGULATION-2020

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

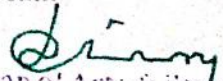
B.sc., Program Educational Objectives PEO

- **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.

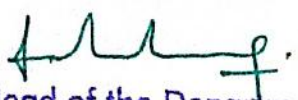

Head of the Department
Department of Biotechnology
School of Arts & Science
Prist Deemed to be University, Thanjavur

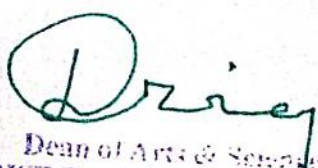

Dean of Arts & Science
PRIST Deemed to be University
Thanjavur - 613 403, Tamilnadu.

- **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.

B.sc., 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 carry out independent literature survey corresponding to the specific publications type and asses basic research tool


 Head of the Department
 Department of Biotechnology
 School of Arts & Science
 Prist Deemed to be University, Thanjavur.


 Dean of Arts & Science
 PRIST Deemed to be University
 Thanjavur - 613 403, Tamilnadu.



PRIST
DEEMED TO BE
UNIVERSITY
NAAC ACCREDITED
THANJAVUR - 613 403 - TAMILNADU

School of Arts and Science

Department of Biotechnology


20UGBTGEC

2020 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	20110AEC11	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	20111AEC11	Advanced English-I	CO1 - Develop vocabulary CO2 - Learn to edit and do proof reading CO3 - Read and comprehend literature	*	*	*	*	*	*	*	*
I	20111AEC12	English-I	CO1 - Read and comprehend literature CO2 - Appreciate poetry and prose CO3 - Familiarize students with fiction.	*	*	*	*	*	*	*	*


Head of the Department
Department of Biotechnology
School of Arts & Science
Prist Deemed to be University, Thanjavur.


Dean of Arts & Science
Prist Deemed to be University
Thanjavur - 613 403, Tamilnadu