

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

- PEO 1** : To impart basic knowledge and skills of various aspects of biotechnology.
- PEO 2** : To train the students for industrial need and to pursue higher education.
- PEO 3** : To inculcate entrepreneurship among the students so as to start their own ventures in the field of biotechnology.
- PEO 4** : Graduates will make valid judgment, synthesize information from a range of sources and communicate them in sound ways in order to find an economically viable solution.
- PEO 5** : To develop overall personality and character with team spirit, professionalism, integrity and moral values to serve for the humanity.
- PEO 6** : To make student familiar with the use and application of modern IT tools in relation to Biotechnology.
- PEO 7** : To make students able to interpret and comprehend research problems, propose solutions and prioritize work.
- PEO 8** : To make students able to attain leadership skills and perform responsibly as an individual, and as a member in diverse teams in multidisciplinary settings.
- PEO 9** : To make students aware about the ethical issues associated with current Biotechnological research by practicing ethical behavior.
- PEO 10** : The student shall be able to apply biotechnology to fulfill societal needs time to time.

PROGRAMME OUTCOMES (POs)

- PO 1** Students will be able to acquire, articulate, retain and apply specialized language and knowledge relevant to biotechnology.
- PO 2** Students will be able to elect and apply appropriate techniques, resources and modern biotechnology tools, including prediction and modeling to complex biotechnological activities, with an understanding of the limitations.
- PO 3** Students will be able to apply reasoning informed by the contextual knowledge to assess societal, health, safety and legal issues and the consequent responsibilities relevant to the professional practice.
- PO 4** Students will be able to understand the impact of societal activities on environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO 5** Students will be able to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO 6** Students will be able to communicate effectively and write effective reports and design documentation, make effective presentations and give and receive clear instructions related to biotechnological research and developmental.
- PO 7** The student will be able to arrange and review biotechnological data, investigate implications systematically and propose solutions.
- PO 8** The student shall be able to comply to ethical principles associated with biotechnology and society.
- PO 9** The student shall be able to value the importance of life-long learning.
- PO 10** The student shall be able to apply biotechnological learning to societal issues.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

(A)

- PSO 1 Higher Education-** Graduates in biotechnology will be eligible for pursuing higher education, M.Sc. programmes in the different field of life science
- PSO 2 Problem Solving Skills** – Graduate will enable to get sufficient knowledge in principles and applications of biotechnology to be applied as future prospect.
- PSO 3 Research Skills** – Graduate will be able to develop efficient and effective methodologies based on modern techniques to be used in research laboratories and industries.
- PSO 4 Successful Career** – Graduates will exhibit contemporary knowledge in Biotechnology and will be eligible for doing jobs in pharmaceutical and biotechnological Industry.
- PSO 5 The Biotechnologist and Society**– Graduate will be able to apply the acquired knowledge from the program for advancement of mankind and sustainable agriculture.

(B) Suggested carrier opportunities:

1. Quality Control Officer
2. Production In-Charge
3. Quality Assurance Officer
4. Executive Officer
5. Biotechnology Expert
6. Business Development Executive
7. Laboratory Instructor
8. Research Assistant
9. Medical Coder
10. Government officer in various field

(C) Suggested domains (trainings/ workshops etc.) from where student may acquire additional hands-on expertise:

1. Hands-on training on Basic computer and internet awareness
2. Workshop on biotech entrepreneurships
3. Hands-on training on bioinstrumentation
4. Hands-on training on bio-fertilizer formulation for sustainable agriculture
5. Hand- on training on plant tissue culture
6. Hands-on training on Mushroom cultivation
7. Hands-on training on Medical coding
8. Hands-on training on nutritional value rating
9. Minor in-house projects