PROGRAMME EDUCATIONAL OBJECTIVES

PEO-1: To generate excellent trained undergraduates with state of art knowledge in pharmaceutical technology and allied subjects in an ambience of motivation that could stimulate growth and excellence

PEO-2: To create undergraduates who are trained in sync with the requirements of the pharmaceutical industry and adapt readily to national healthcare programmes

PEO-3: To create professionals of standing who would spread across the country and the globe in various areas including education, research, industry and government

PEO-4: To mold students to emerge as future leaders of the pharmaceutical industry and as entrepreneurs

PEO-5: To sensitize students to local and global needs of environment protection and sustainability

(A) PROGRAMME OUTCOMES (POs)

B. Tech. (Pharma) Graduates will be able to:

1. Pharmaceutical technology knowledge: Apply the knowledge of mathematics, science, chemical engineering and Pharmaceutical technology fundamentals, and Pharmaceutical technology specialization to the solution of complex problems in Pharmaceutical technology.

2. Problem analysis: Identify, formulate, review research literature, and analyze complex Pharmaceutical technology problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and Pharmaceutical engineering sciences.

3. Design/development of solutions: Design solutions for complex Pharmaceutical technology problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex Pharmaceutical technology activities with an understanding of the limitations.

6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional practice of Pharmaceutical technology

7. Environment and sustainability: Understand the impact of the professional Pharmaceutical technology solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the practice of Pharmaceutical technology.

9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. Communication: Communicate effectively on complex Pharmaceutical technology activities with the Pharmaceutical community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. Project management and finance: Demonstrate knowledge and understanding of the Pharmaceutical technology and management principles and apply these to one’s own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

(B) PROGRAMME SPECIFIC OUTCOMES (PSOs)

13. Pursue higher studies/research with high level of motivation, in institutes of international repute.

14. Apply the knowledge and training in Pharmaceutical technology to emerge as entrepreneurs.

15. Evolve as technocrats who could influence major policy decisions related to pharmaceutical and allied industries.