

M.TECH. in PHARMACEUTICAL BIOTECHNOLOGY

PROGRAM OUTCOMES

M. Tech. (PBT) post-graduates will be able to:

1. **Knowledge and problem-solving pertaining to Pharmaceutical Biotechnology:** Apply the knowledge of pharmaceutical biotechnology to solving complex industrial problems. Students will be also able identify, formulate, review research literature, and analyse complex problems in pharmaceutical biotechnology, reaching substantiated conclusions using principles of health and industrial biotechnology. (Level K3)
2. **Modern tool usage and communication:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, statistical tools, including modelling for complex activities in the field of pharmaceutical biotechnology, while understanding the limitations therein. Communicate effectively on complex activities and be able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions. (Level K6)
3. **Environment and sustainability:** Understand the impact of the biotechnological solutions in health, societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. (Level K5)
4. **Ethics, individuality, Teamwork:** Apply ethical principles and commit to professional ethics and responsibilities of applying biotechnology in the areas of healthcare and industrial technologies. Further, the postgraduates will be able to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. (Level K5)
5. **Life-long learning:** An ability to design solutions for complex problems in pharmaceutical biotechnology and design system components or processes that meet the specified needs with appropriate considerations related to public health and safety, along with regulatory, societal, and environmental considerations. (Level K 6)

PROGRAM SPECIFIC OUTCOMES (PSOs)

1. Pursue doctoral and post-doctoral research/higher studies with high level of motivation, in institutes of national and international repute.
2. Apply the knowledge and training in pharmaceutical biotechnology to emerge as educationalists and entrepreneurs.
3. Evolve as technocrats who could influence major policy decisions related to pharmaceutical, biotechnological and allied industries.

PROGRAM EDUCATIONAL OBJECTIVES

PEO-1: To generate excellent trained graduates with state of art knowledge in pharmaceutical biotechnology, biotechnology and allied areas in a motivating ambience that may stimulate growth and excellence in providing solutions to biopharmaceutical industry

PEO-2: To create postgraduates who are trained to understand industrial working, standards, regulations and documentation of the biopharmaceutical industry and who can readily adapt to the national healthcare initiatives and policies on innovation by the Government

PEO-3: To create all rounded, high standing professionals who can perform in various areas of education, research, industry and government, within the country and across the globe

PEO-4: To create individuals with critical thinking and problem-solving capability, who can emerge as future leaders in education, biopharmaceutical industry and as entrepreneurs

PEO-5: To create individuals sensitized to local and global needs of environment protection and sustainability