

B.Tech. Biotechnology programme at Thapar Institute of Engineering & Technology, Patiala

The Department of Biotechnology at Thapar Institute of Engineering & Technology, Patiala is committed to provide quality education and research at UG, PG, and PhD levels. The department offers a 4-Year B.Tech. Biotechnology programme to the prospective students. This programme received recognition in terms of NBA accreditation for six years in 2024. The overall scheme and the course contents of this programme are based on the fundamentals of relevant engineering disciplines along with emerging trends of modern biology and biotechnology. Various courses of this programme cover frontier areas of biotechnology namely recombinant DNA technology, plant and animal biotechnology, stem cell technology, cancer biology, bioinformatics, computational and systems biology, biopharma, bioprocess engineering, molecular diagnostics & therapeutics, food technology along with chemistry, applied physics, basic mathematics, computer programming, communication skills, IPR and Entrepreneurship, biomedical engineering and some core engineering courses. Students are also exposed to experiential learning through ELC activity and capstone projects, which are aimed to integrate the knowledge and skills acquired in the entire programme to create an improved product and develop skills related to analysis, design, synthesis and soft skills. Gaining hands-on training experience in the renowned industries/research institutes and involvement in the research-based solutions to current challenges are major value additions to this programme. The meritorious students of B. Tech Biotechnology can opt for 3+2 Masters in Biotechnology programme at Tel Aviv University (Israel), George Mason University (USA), and University of Queensland (Australia). The young undergraduates find placements in the biotech, food and pharmaceutical industries besides getting opportunities for advanced studies in India and abroad.