

**17. B.Tech. Biotechnology programme at Thapar Institute of Engineering & Technology University, Patiala for the candidates with medical background i.e. PCB at 10+2 level (Commenced from the Academic Session 2015-2016)**

The Department of Biotechnology at Thapar Institute of Engineering & Technology University, Patiala is committed to provide quality education and research at UG, PG, and PhD levels which is offering a 4-Year B.Tech. Biotechnology programme to the prospective students having physics, chemistry and biology i.e. PCB background at 10+2 level from the Academic Session 2015-2016. B.Tech. Biotechnology programme received recognition in terms of NBA accreditation for five years in 2012. Admission to this programme will be exclusively on the basis of All India Pre-Medical Test (AIPMT) score. B.Tech. Biotechnology programme is a promising alternative to the students having medical backgrounds who are otherwise desirous and preparing for MBBS/BDS programmes. 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. The course will cover basic mathematics, applied physics and chemistry, computer programming, communications skills, IPR and Entrepreneurship, biomedical engineering besides frontier areas of biotechnology including recombinant DNA technology, plant and animal biotechnology, stem cell technology, cancer biology, bioinformatics, molecular diagnostics and therapeutics and food technology. Gaining hands-on training experience and involvement in the research-based solutions to current challenges is a major value-addition to this programme. The young undergraduates will find placements in the biotech, food and pharmaceutical industries besides getting opportunities for advanced studies in India and abroad.