

B.Tech. Biochemical Engineering

Department of Biotechnology will offer B.Tech Biochemical Engineering from July 2014 with the support from Department of Chemical Engineering. B.Tech. Biochemical Engineering is a rigorous 4 year undergraduate program aimed to orient the students in core engineering principles with a strong background on industrial biochemical and biotechnological processes. The course will include subjects besides common subjects of basic and applied sciences and engineering in the first year like Material and Energy Balance, Process Fluid Mechanics, Unit operation I, Bioprocess Equipment Design, Chemical Reaction Engineering, Unit operation II, Downstream Processing and Process Modelling and Simulation, biomedical instrumentation alongwith microbiology, genetic engineering, bioengineering, cell and molecular biology, industrial and pharmaceutical biotechnology, stem cell and vaccine technology and bioinformatics etc. The course curricula is designed to include high end recent advances in chemical and biological engineering principles, which is further supported by excellent laboratory set up including state of the art facilities. The objective of the course is to prepare students for successful career in industry and research institute, to develop the ability amongst the students to apply modern biological and biochemical engineering techniques in industry and research and to enable students to work in a team with multidisciplinary approach. After successful completion of Bachelors of Technology in Biochemical Engineering, the students will demonstrate basic knowledge in physical, chemical as well as biological sciences. The students would acquire basic knowledge of engineering and skills to design and conduct experiments, analyze data and interpret the results. The student will demonstrate ability to provide technological solutions in the fields of modern biochemical engineering. With multidisciplinary approach students will find placements in either chemical, biochemical and biotech industries, food, pharma and agri sector as well as IT companies