BTECH BIOMEDICAL ENGINEERING

The inception of the Biomedical Engineering program marks a significant milestone in our academic offerings, as it has been developed in partnership with the University of Toledo (UT), USA, commencing from the academic year 2019-20. This collaborative initiative is carefully crafted to provide students with a truly global educational experience, equipping them with the skills and knowledge necessary for successful careers in the dynamic field of biomedical engineering. In this, joint program the students have an opportunity to study 2 years at TIET and 2 years at UT and will get an undergraduate degree in Bioengineering from UT. The students can also opt for an accelerated master's program (3+1+1) in collaboration with George Mason University, USA. Under this program, the students spend 3 years at TIET and 2 years at GMU (the UG degree will be awarded by TIET, and GMU will award the master's degree). Distinguished by its emphasis on international exposure, professional readiness, and access to cutting-edge resources, the program is tailored to cultivate a holistic understanding of biomedical engineering. Students are immersed in a comprehensive curriculum that fosters technical proficiency and instills an entrepreneurial mindset, catering to those who aspire to transition seamlessly into industry or research organizations upon program completion.

At the heart of the program lies a strategic focus on engineering principles and entrepreneurship, aligning with the contemporary demands of the biomedical industry. This forward-thinking approach empowers students to contribute meaningfully to developing innovative medical devices. The curriculum is meticulously structured to encourage hands-on experiences, collaborative projects, and exposure to state-of-the-art facilities, ensuring that students are well-versed in the practical applications of biomedical engineering. A key highlight of the program is its dedication to advancing medical devices, aiming to bridge the gap between theoretical knowledge and real-world healthcare solutions. The department has been awarded the prestigious AICTE-Inter Institutional Biomedical Innovations Program mentored by C-CAMP (Centre for Cellular and Molecular Platforms, Bangalore), a first-of-its-kind program to foster innovations in healthcare technologies. Through a combination of rigorous coursework and research opportunities, students gain insights into the intricacies of creating novel healthcare devices, thereby contributing to the evolution of the healthcare landscape.

In essence, the Biomedical Engineering program represents a commitment to excellence, international collaboration, and preparing the next generation of biomedical engineers to thrive in a rapidly evolving global landscape. Students enrolled in this program can anticipate a robust academic foundation and a transformative experience that propels them toward successful and impactful careers in biomedical engineering.