

## Minor Programme in Bioengineering

### About the Program:

School of Mechanical Engineering offers undergraduate and postgraduate programs in mechanical engineering that cover wide range of courses in different domain to suit the interests of students and meet the industry requirements. Of late, the school is also engaged in offering minor programs like Innovation & Product Development and Automotive Engineering to develop interdisciplinary problem solving skills among capable students. Bioengineering is another such program that brings student from multidisciplinary backgrounds such as Biotechnology and other engineering domains to work in the area of biology and bio medical systems.

Bioengineering is the interface between engineering and medicine. Working with doctors, clinicians and researchers, bioengineers use traditional engineering principles and techniques and apply them to real-world biological and medical problems. The Minor Program in Bioengineering is specifically designed to provide integrating experiences to the students through various areas of biology, medicine and engineering. The proposed Minor Program offers excellent career options in the areas of biomedical, health care and regenerative technology that demand a lot of engineering skills.

### Program Outcomes:

At the end of the program, the student should be able to:

- Demonstrate working knowledge of biological and biomedical systems.
- Work on medical problems through interactions with clinicians.
- Apply engineering and biology principles in interdisciplinary areas.
- Design and fabricate devices for unmet clinical needs.
- Pursue research in Bioengineering



**Requirements for the award of Program:** A Student needs to earn a minimum of 15 credits or the approved number of credits of the respective School/Department. Also these credits shall be earned before the completion of his/her BE programme to become eligible to receive the Minor Programme Certificate.

### Schedule for Delivery of Courses

Academic batch	4 <sup>th</sup> Semester	Summer Term-I (4S)	5 Semester	6 Semester	Summer Term-II (6S)
2019-23	Physiology and anatomy (3-0-0)	Biosensors (2-0-1)	Biomaterials (2-0-1)	Biomechanics & Control (2-0-1)	Project (0-0-3)

### Guidelines and Important Dates:

- **Intake:** 25 seats
- **Eligibility:** Applicants must have CGPA  $\geq$  6.75 (I & II Semester) without any backlogs
- **Who can apply:** **Students of 2<sup>nd</sup> Year B.E.** (Biotechnology, Mechanical Engineering, Electrical & Electronics Engineering, Electronics & Communication Engineering and Computer Science & Engineering)  
Lateral Entry Applicants must have SCPA/CGPA  $\geq$  6.75 (III Semester) without any backlogs
- **Last Date for Submitting Application:** March 27, 2021
- **Notification for Selected Students:** March 30, 2021
- **Registration Date:** April 01, 2021
- **Commencement of Classes:** April 03, 2021
- **Minor Programme Fees:** Rs 20,000/-

### Contact Information:

<b>Department Coordinator</b> <b>Name:</b> Dr. V N Gaitonde <b>Designation:</b> Professor <b>School/ Department/Center:</b> Mechanical Engineering <b>Email:</b> vngaitonde@kletech.ac.in <b>Ph:</b> 08362378270	<b>Head of the School/Department/Center</b> <b>Name:</b> Dr. B B Kotturshettar <b>Designation:</b> Professor & Head <b>School/ Department/Center:</b> Mechanical Engineering <b>Email:</b> bbkshettar@kletech.ac.in <b>Ph:</b> 08362378280
<b>Google Link for Application form <a href="https://forms.gle/CEd6p7zGGyMpdCTS8">https://forms.gle/CEd6p7zGGyMpdCTS8</a></b>	
<b>Coordinator of Minor Programmes</b> <b>Dr. Anil S Badiger, Professor, School of Mechanical Engineering</b>	