

The Department started in 1962 with an original focus on academic activities in three broad areas, namely, Biomedical Engineering, Fluid Mechanics and Solid Mechanics, Over the years, the department has organically evolved in a fashion that led to blurring the boundaries between the above areas and is today a unique department that focuses on high quality research in fundamental and interdisciplinary engineering in the area of current importance.

It is the only truly graduate-focused interdisciplinary department in the Institute, housing 35+ labs with state-of-the-art facilities. The department boasts of serving with 36 faculty members currently drawn from more than eight fields of engineering and science, reflecting the innately interdisciplinary nature of the department. In addition, about 20 adjunct and visiting faculty members from reputed universities worldwide are engaged in collaborative work with our faculty colleagues and guide research theses and MTech projects. Several guest faculty augment service through course offerings in current trends.

Apart from Ph.D. and M.S. (by research), the department offers three MTech programs now, namely, Computational and Experimental Mechanics, Biomedical Engineering and Clinical Engineering. It also offers Interdisciplinary Dual Degree programs for undergraduates that align with the current interests in the Industry and research circles such as Biomedical Engineering, Computational Engineering, Energy Systems and Complex Systems.



APPLIED MECHANICS & BIOMEDICAL ENGINEERING

Programmes (M.Tech.)

- Computational and Experimental Mechanics
- Biomedical Engineering
- Clinical Engineering (Interdisciplinary programme)

Research areas

Solid Mechanics

- Composite
- Digital photoelasticity
- Computational methods
- Fracture & Fatigue
- Inelasticity
- Smart materials
- Stochastic mechanics
- Vibrations

Fluid Mechanics

- Forced shear layers
- Insect flight
- Interfacial phenomena
- Bio-fluid dynamics
- Direct simulation of turbulence
- Active flow control algorithms
- Thermal hydraulics
- Unsteady aerodynamics
- Combustion
- Multiphase flows

Biomedical

- Bioelectronics
- Biomedical signal processing
- Haptics
- Biomedical Optics
- Biosensors
- Nanobiotech
- Tissue mechanics
- Bio metastatis





APPLIED MECHANICS & BIOMEDICAL ENGINEERING

Placements

























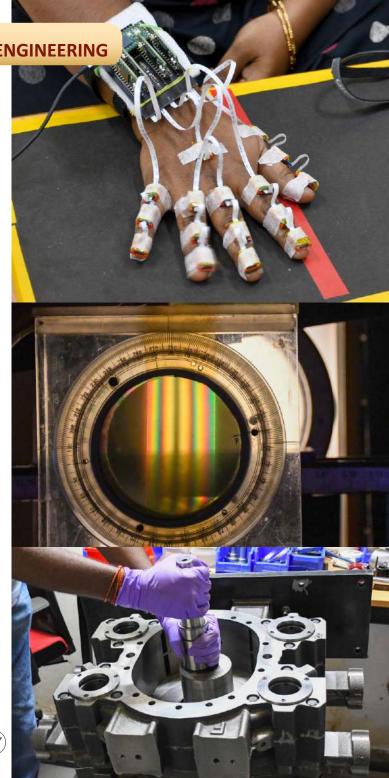




KONGSBERG









Faculty

Dr. Abhijit Chaudhuri

Dr. Anubhab Roy

Dr. Anuradha Baneriee

Dr. A Arockiarajan

Dr. K Arul Prakash

Dr. Arun Kumar Thittai

Dr. Babji Srinivasan

Dr. A P Baburaj

Dr. Ganesh Tamadapu

Dr. Ilaksh Adlakha

Dr. Lakshminath Kundanati

Dr. C Lakshmana Rao

Dr. C Lakstittaria Rao

Dr. Mahesh Panchagnula Dr. M Manivannan

Dr. Pijush Ghosh

Dr. B S V Prasad Patnaik

Dr. V V Raghavendra Sai

Dr. S Ramakrishnan

Dr. M Ramasubba Reddy

Dr. K Ramesh

Dr. Rinku Mukerjee

Dr. Sarith P Sathian

Dr. Satyanarayanan Seshadri

Dr. Saumendra Kumar Bajpai

Dr. Sayan Gupta

Dr. Shaikh Faruque Ali

Dr. M S Sivakumar

Dr. N Sujatha

Dr. S Swathi

Dr. Vagesh D Narasimhamurthy

Dr. S K M Varadhan

Dr. S Vengadesan

Dr. Kiran Raj M

Dr. S Ganga Prasath

Dr. Danny Raj M

Dr. Kannabiran Seshasayanan

