

About BME: Biomedical Engineering is the application of Engineering Principles into Medical Science. This is an interdisciplinary field i.e a symbiosis of MED-TECH bridging occurs here by combining the design and problem solving skills of engineering & technology with medical sciences to improve healthcare diagnosis, monitoring and therapy which is also having enormous societal significance in terms of providing technological backbone and control to High-End patient care. The discipline of biomedical engineering has emerged as an integrating medium for two dynamic professions - doctors and engineers.

About Dept: It is one of the oldest departments of JISCE. The Dept. of Biomedical engineering was founded in the year 2003 with the first batch passing out in the year 2007. Biomedical Engineering has only recently emerged as its own discipline, compared to many other engineering fields. Biomedical Engineers from JISCE has successfully found a wide range of placement options and work in industry, academic institutions, hospitals, government agencies and research institutes.

Publication, Patent & Funding:

The department is very actively pursuing research in diverse fields of BME world ranging from Biomedical instrumentation, Bio-signal processing, Biomaterials, Image processing, Artificial Organ and many more. Faculty members have International Journal Research publications as well as Book Chapters in their respective domain of research. The department has got Patent in:

1. Process of preparing Hydroxyapatite from Waste Egg Shell.
2. A System for Data Acquisition and Control with Electro-Oculography Signals

Outreach:

Biomedical Engineering students have successfully found a wide range of training, industry visit and placement options in industry, academic institutions, hospitals and government agencies.



Why BME@JISCE...???

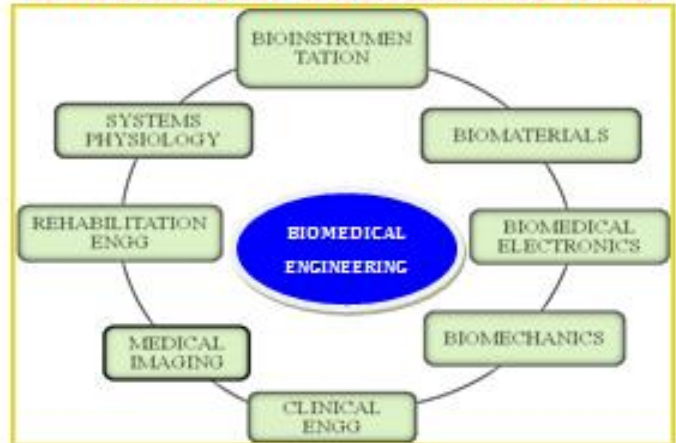
- Well balanced industry oriented curriculum.
- Strong mentoring of students following individual interaction as and when needed.
- Innovative self-learning opportunity via flipped mode digital pedagogy.
- Mid-Semester Domain Specific Training.
- Abroad Study Tour at Thailand, Russia, USA, UK etc.
- Exposure to cutting-edge technology through Industry Visit, on campus seminar, conference, workshop.
- Well-equipped laboratories.
- Resourceful departmental library
- Highly qualified, energetic & well experienced faculty members.

B.TECH BIOMEDICAL ENGINEERING-A PROMISING INTERDISCIPLINARY FIELD

PROMOTES SMOOTH TRANSITION FROM ACADEMICS TO HEALTHCARE INDUSTRY



A FUSION OF ENGINEERING PRINCIPLES & HIGH TECHNOLOGY WITH MEDICAL SCIENCE



.....A WIDE SPECTRUM OF ESTABLISHMENT.....

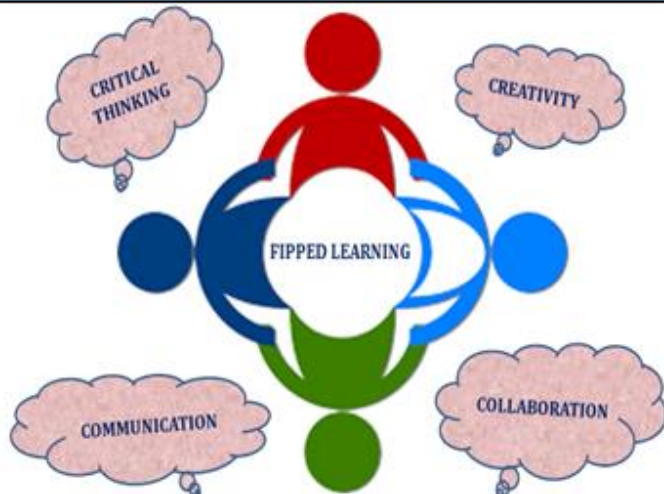
CORE Industries
Application
Specialist and
Service Engineer in
Medical Equipment
Companies
(30%)

Healthcare
Industries
(25%)

Higher
Education and
Research
(20%)

Medical
Instruments
Manufacturing
Industries
(15%)

Software
Industries
LIFE SCIENCE
Wing
(10%)



BIDIRECTIONAL TEACHING-LEARNING





GLIMPSE OF THE LABORATORY EXPOSURE

**PHYSIOLOGY & ANATOMY-CONCEPT TO
INTERFACE MAN WITH MACHINE**

**AUDIOMETRY-CONCEPT TO DEVELOP
HEARING AID**



BIOMEDICAL SIGNAL PROCESSING

MEASUREMENT OF HEART RATE



Departmental Activities:







CAREER PROSPECT HEALTH CARE INDUSTRY



SOFTWARE INDUSTRY



HIGHER STUDIES & RESEARCH



Alumni Network



Mr. Biswajit Roy
MD- 3 Instruments



Agni Mitra
Entrepreneur, DUBAI



Madhura Sur, Imon Biswas
Capgemini



Kasturi Roy, Mitali Sarkar
West Bengal Health & Family Welfare



Arindam Bhattacharjee, Sayan Mazumder
SODEXO



Alumni Network



Dr. Arindam Bit
NIT Raipur



Shyamal Mondal
NEHU-Shillong



Poulami Basu
Exchange PhD Scholar
Leibnitz University-Hannover



Dr. Anwesha Khasnobis
TCS INNOVATION
LAB



Dr. Howa Begam
NIT-Raipur



Amartya Ganguly
Innovative Associate
Marsi Bionic, Spain



Sunanda Mukherjee
University of Purdue



Rupsha Mukhopadhyay
Phd Scholar, IIT-KGP



Dibyendu Mondal
Phd Scholar, JU



Shikha Bhati
Pursuing MBA-
BSM, Birla Global
University

Alumni Network



Shubhasis Karmakar & Akash Sardar
Astra Medical System



Debkumar Chakraborty, Amarjit Biswas & Pranjal Bandopadhyay
GE Healthcare



Tina Fiona
Sheik
Neurosynaptic



Somtirtha De
Medtronic



Sayan Bhadra
TriMed Solutions
India Pvt. Ltd



Sweta Parui
Healthcare
Associates Pvt. Ltd



Anish Mukherjee
Qiagen



Srijan Banerjee
Stryker
Corporation