

BIRLA INSTITUTE OF TECHNOLOGY

MESRA, RANCHI - 835215 | www.bitmesra.ac.in

PLACEMENT BROCHURE **ELECTRONICS & COMMUNICATION** ENGINEERING

Year: 2023-24



ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering is one of the largest departments of the institute having largest student and faculty strength with a vision to become a centre of excellence in teaching and research for creating technical manpower in the field of Electronics and Communication Engineering.

Programmes Offered

Undergraduate Programmes

- B. Tech. in Electronics & Communication Engineering
- Post-Graduate Programmes
 - M. Tech. in Electronics & Communication with specialization in :
 - 1. Instrumentation Engineering
 - 2. Microwave Engineering
 - 3. Wireless Communication
 - 4. VLSI Design & Embedded System

Doctoral Programmes

• PhD.



COURSES OFFERED

B.TECH





M.TECH

• ADVANCED SENSING TECHNIQUES ADVANCED DIGITAL SIGNAL PROCESSING • ARTIFICIAL INTELLIGENCE SYSTEM • EMBEDDED SYSTEM DESIGN ADVANCED ELECTROMAGNETIC MICROWAVE AND Mm-WAVE INTEGRATED MODERN OPTIMIZATION TECHNIQUES WIRELESS SYSTEMS AND NETWORKS • STOCHASTIC PROCESSES AND INFORMATION CODING THEORY AND APPLICATIONS ADVANCED WIRELESS COMMUNICATION ANTENNAS AND DIVERSITY APPLIED INDUSTRIAL INSTRUMENTATION CMOS ANALOG VLSI DESIGN

ABORATORIES AND FACILITIES

- ADVANCED COMMUNICATION LAB
- BASIC ELECTRONICS LAB
- ANTENNA LAB
- COMPUTATIONAL ELECTROMAGNETICS LAB (CEM LAB)
- CIRCUIT SIMULATION LAB
- COMMUNICATION SYSTEM LAB
- VLSI LAB
- DIGITAL ELECTRONICS LAB
- EMBEDDED SYSTEM LAB
- INSTRUMENTATION LAB
- FIBRE OPTICS RESEARCH LAB
- MICROPROCESSOR LAB
- MICROWAVE INTEGRATED CIRCUIT LAB
- WIRELESS COMMUNICATION LAB
- SIGNAL PROCESSING LAB





- Design of Ultra Low Power CMOS Cell for **Temperature Sensor in VLSI.**
- Studies on Microwave Dielectric Ceramics and their device application.
- Microstrip antenna for wearable applications. • Health care monitoring system for rural peoples.
- Design of Low Power CMOS Temperature Sensor for Aerospace Applications. **ONGOING PROJECTS:**
- Developments of nano crystalline high permittivity lead free materials for microwave applications.
- Speech-based Access of Agricultural **Commodity Prices and Weather Information** in 12 Indian Languages / Dialects.

COMPLETED PROJECTS:

ACHIEVEMENTS

SMART HEALTH MONITOR PROTOTYPE

• Prototyping a low-cost, micro, smart health monitor for patients, with a cloud system to address issues caused by inadequate primary health care and ongoing care in underdeveloped rural areas.

DESIGN OF DATA GLOVE

- Students of the department developed a data glove that helps people with special abilities to communicate more easily. It recognizes consistent Indian sign language as well as dynamic gestures used in daily life and converts it into speech.
- Students have developed a model for detection of parkinson's disease using speech signals and machine learning.

FEW OF OUR RECRUITERS

- Wells Fargo
- Infosys
- Microsoft
- Accenture
- KPMG
- **ZS** Associates
- Oracle
- TATA
- PayTm
- Walmart
- CISCO
- PwC





- Samsung
 - Atlassian
- Philips
- Nxp

- Adrosonic
- Siemens
- Addverb
 - **Logic Fruit**
 - **Steradian Semiconductor**
- Fastnel
- Cognizant
- Media.net



Thank You Our Contact

Section 1: +91651-2275566
Section 2: placement@bitmesra.ac.in
Section 2: www.bitmesra.ac.in
Section 2: Mesra, Ranchi