

## B.Tech > Electronics & Communication Engineering



**Duration : 4year**

### Eligibility:

- Passed 10+2 examination with Physics and Mathematics as compulsory subjects along with one of the Chemistry/Biotechnology/Biology/Technical vocational subjects.
- Obtained at least 45% marks (42.75% in case of candidates belonging to reserved category) in the above subjects taken together.

The Electronics & Communication Engineering involves the transmission of information across channels such as a coax cable, optical fiber or free space. You can work on designing equipment such as routers, switches, multiplexers and electronic switching systems, copper telephone facilities and fiber optics.

The core courses studied in this branch include the following:

- Electromagnetics
- Electronics
- Electrical circuits and machines
- Signals and systems
- Digital Signal Processing
- Microprocessors and Embedded systems
- Communication systems
- Optical systems
- VLSI

## Electronics & Communication Engineering with certification in Robotics

An engineering discipline that is on the rise, robotics engineering is a breeding ground for creativity and innovation from people with a background in mechanical, electrical, or software engineering. Robotics engineers may work in the agricultural, military, medical, and manufacturing industries, among others, conceiving of new uses for robots, designing improved robots for existing systems, or repairing and maintaining industrial robots.

### Job Description

Under the supervision of an engineer, mechanical engineering technicians help create and verify computer schematics and other drawings. They also build and install new components, analyze performance through the use of tests and prepare reports from collected data. Earning an associate degree or completing a vocational program in mechanical engineering technology is usually required by employers, and coursework should include math, basic science, mechanical design and fluid mechanics.



### Career Prospects:

#### Earnings

**2.5 Lakhs to 30 Lakhs per annum**

*(Salary data sourced from PayScale.com)*

#### Earnings Details

You can work in the consumer electronics, aviation and avionics, manufacturing, electricity generation and distribution, communications, transportation, telecommunications, radio and television, computer applications, hospital diagnostic equipment and offshore industries.

This branch is combined with other branches like civil, structural and electrical engineering, One of the basic work that are involved by the engineers include research and development of satellite, design, cable systems, radio waves, mobile phones, internet, etc.

- Electronics Engineer
- Electronics Design Engineer
- Telecommunications Engineering Specialist
- Electronics Test Engineer
- Electromechanical Engineering Technologist.....



### Major Recruiting Companies

- SAIL-Steel Authority of India Limited
- GAIL-Gas Authority of India Limited
- HAL-Hindustan Aeronautics Limited
- NTPC-National Thermal Power Corporation
- ONGC-Oil and Natural Gas Commission Limited
- Bharat Sanchar Nigam Ltd (BSNL)
- CMC Ltd
- Amara Raja Batteries Ltd
- Bartronics India Ltd
- Cranes Software International Ltd
- Datamatics Global Services
- Dell India Private Ltd... Many more,,,,,