

ELECTRONICS AND COMMUNICATION ENGINEER

Electronics and Communication Engineering entails designing, planning, building and testing electronic equipment used in various systems such as basic electronics, microprocessors, solid-state devices, digital and analog communication devices and so on. Electronics and Communications engineers also oversee the manufacturing of communications and broadcast systems such as basic electronics.

PERSONAL COMPETENCIES

- You enjoy Science and Maths
- You like to figure out how things work
- You like to analyse problems/situations
- You like working with gadgets



SCHOLARSHIPS

- Merit-cum-Means based Scholarship - About 20,000 such engineering scholarships are awarded by the Ministry of Minority Affairs every year. The full course fees of awardees is directly paid to their institutions under this scheme.*
 - Indian Oil Educational Scholarship- The IOC Ltd offers 300 scholarships every year to eligible students. Students need to be enrolled in an undergraduate course. The scholarship particularly focuses on students with physical disabilities, women and students from North East and J&K.*
 - "Ishan Uday" Special Scholarship Scheme - For promoting higher education and for encouraging children belonging to economically weaker section of the NE region, the UGC has launched "Ishan Uday" Special Scholarship Scheme for North Eastern Region students.
 - Visit www.scholarships.gov.in the National Scholarship Portal. Under this portal there are other central government schemes offered by different departments, UGC/AICTE Schemes and State Schemes.*
 - Visit www.buddy4study.com a gateway to scholarships starting from Class XI.*
 - Scholarships are also available in the institutes based on merit.*
- *(Availability of these scholarships vary from time to time)

LOANS

- VidyaLakshmi, www.vidyalakshmi.co.in, is a portal for students seeking education loan. This portal has been developed under the guidance of the Department of Financial Services, (Ministry of Finance), Department of Higher Education (Ministry of Human Resource Development) and Indian Banks Association (IBA). Students can view, apply and track the education loan applications on the website.
- Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.
- All banks give education loans.



The approx. course fee ranges between **INR 1,50,000 - 12,00,000***
*(The above mentioned figures are approximate numbers. This will vary from Institute to Institute)

ENTRY PATHWAY

1. Complete 10+2 in the Science stream (Physics, Chemistry and Mathematics)
 2. Complete Bachelor's degree (B.Tech.) in Electrical Engineering/Communications Engineering
- OR**
- Complete Bachelor's degree in Electrical Engineering/Communications Engineering, followed by a Master's degree (M.Tech) in the same discipline

For admissions, you must qualify entrance examination conducted at national level (JEE Main, JEE Advanced etc.) or state level (WBJEE, AP EAMCET etc.) or institute level (VET, IP etc.)

Please check the duration of the course during enrolment



EXPECTED INCOME

The figures are indicative & subject to change

The approx. salary of an Electronics and Communication Engineer ranges between **INR 14,500 - 84,000*** per month

Source: https://www.payscale.com/research/IN/Job=Electronics_Engineer/Salary

WHERE WILL YOU WORK

Places of Work: Electronics companies across India or in Telecommunications companies, Manufacturers or also as Installers of Communication devices and systems

Work Environment: Companies usually work for 5 to 6 days a week and 8 to 9 hours everyday. This may vary from company to company. Shift system might be applicable.

Opportunities for differently abled exist in this field

EXPECTED GROWTH PATH

Junior Technician → Electronic Engineer → Senior Technical Manager

OR

Junior Technician → Communications Engineer → Senior Technical Manager

WHERE WILL YOU STUDY?

This course is offered by the Department of Electronics and Communication Engineering.

This list of institutes is indicative only

GOVERNMENT INSTITUTES

1. Assam University, Silchar
2. Central Institute of Technology, Kokrajhar
3. Assam Science and Technology University, Guwahati
4. Gauhati University, Guwahati
5. IIT Guwahati
6. NERIST, Itanagar
7. NIT Agartala
8. Tezpur University, Assam

PRIVATE INSTITUTES

(Please check if institute is affiliated and accredited with UGC and AICTE before applying)

1. Assam Don Bosco University, Guwahati
2. ICFAI Institute of Science and Technology, Agartala
3. Vellore Institute of Technology, Tamil Nadu
4. William Carey University, Shillong
5. Nirma University, Ahmedabad
6. Indian Institute of Information Technology (IIIT), Guwahati
7. Kalinga Institute of Industrial Technology, Odisha
8. Dr Ambedkar Institute of Technology, Karnataka

Information on the institute rankings can be found at - www.nirfindia.org/2022/Ranking.html

DISTANCE LEARNING INSTITUTE

Indira Gandhi National Open University (IGNOU)

ONLINE COURSES

- NPTEL* Swayam - <https://archive.nptel.ac.in/courses/117/105/117105144/>
- Udemy - <https://www.udemy.com/topic/electronics/>

*NPTEL - National Programme in Technology Enhanced Learning. It is by the Government of India and offers a variety of courses in an audio - video form.

Search keywords...



electronics engineer, site engineer, telecommunication engineer

EXAMPLE FROM THE FIELD

Born in 1967, **Rajiv Suri**, an Indian born, Singaporean business executive, graduated as Electronics and Telecommunications engineer from Mangalore University, India in 1989. He started his professional life as a Production Engineer at Calcom Electronics. After spending five years in ICL India and Churchgate Group, Nigeria, he moved to NSN India as System Marketing Manager in 1995. Within a decade he soared up the ranks to the position of Senior Vice President Nokia Networks Asia Pacific and on October 1, 2009 he was appointed Chief Executive Officer of Nokia Solutions and Networks (then Nokia Siemens Networks).*

Source : <https://manipal.edu/mu/alumni/eminant-personalities/list/rajeev-suri.html>

*The above information is for training purposes only and will not be used for any commercial gains.