



**Igniting Minds;
Expanding horizons**

BEng. Electronics and Communications Engg

Electronics and Communications Engineering has two concentrations:

- Telecommunication Engineering
- Biomedical Engineering

Opportunity for
Master's Scholarship;
local and international
internship program



الجامعة الوطنية
National University
للعلوم والتكنولوجيا
Science & Technology

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About this program

Electronics and Communications Engineering is a 4-year degree program aims to provide knowledge and skills in the Electronic devices, operations and applications to the evolving Telecommunication technologies and Bio-medical practices to the aspiring students. It provides the opportunity to choose the specialization either in Telecommunication Engineering with a focus to Radio, TV, Microwave, Fiber optical and Mobile communication or Bio-Medical engineering with emphasis on Medical diagnosis, Image processing and Telemedicine. The combination of practical skills and the use of modern software tools will enable the graduates to practice and progress within the industrial environment as highly skilled Engineers and Entrepreneurs.

Broad Career Options

- Biomedical Engineer
- Wireless Network Engineer
- Mobile communication Planning Engineering
- IoT Engineer
- Satellite Engineer
- Telecommunication Engineer
- Control System Designer & Engineer
- Instrumentation Project Engineer
- Electronic Engineer and Design
- Field Testing Engineer
- Project Engineer
- Quality control Engineer

Career Opportunities

Graduates of this program have opportunities available in various private and government sectors, such as petroleum development companies, oil and gas companies, hospitals, defense, and aviation. Career options are also available in areas such as microcontroller applications, analogue and digital system design, signal processing and system modeling.

Electronics and Communications Engineering with Telecommunication Concentration

- Design and developing new Control systems related to Telecommunications technologies.
- Trouble shooting and Problem solving in Telecommunication related networks
- Planning and maintenance of the wireless devices, router, network cable, optical fiber and for better performance
- Involve in research findings, publish research papers related to Telecommunications Engineering

Electronics and Communications Engineering with Bio Medical Engineering Concentration

- Support patient diagnosis and treatment through Installing, adjusting, maintaining and servicing biomedical equipment
- Liaise with the Medical and Engineering staff related to biomedical equipment
- Involve in research findings, publish research papers related to Bio Medical Engineering

Extracurricular Opportunities

- Students Hobby Club
- International internship programme
- Local Internship Programme
- Project Competition
- IEEE Events participation
- Entrepreneurship events and many more

IEEE Golden Opportunities

- Become a member of IEEE
- Participate in IEEE competitions
- Participate in IEEE Conference
- IEEE free technical talks

