

INFORMATION FOR APPLICANTS

We welcome you as an aspirant to join the Department of Electronic Engineering for undergraduate studies. We hope that you will find here pertinent information required to make that crucial decision about where to study.

We firmly believe that choosing to study at the Electronic Engineering Department will be one of the best decisions you'll ever make.

WE ARE

- Enabling today's top students to become tomorrow's leading professionals
- Consistently heading the ranking lists in Sindh province and maintaining a high profile at home and abroad. A team of well reputed & highly Skilled Professional faculty & training staff.

INTRODUCTION OF ELECTRONIC ENGINEERING DEPARTMENT:

The Department of Electronic Engineering was established in February 1999. The first batch of 70 students was admitted during the 1999-2000 Academic session. The student intake has now doubled to 140 from the 2001-2002 Academic session.

At Undergraduate Level, the Department is offering B.E. Degree in Electronics, B.E. Degree in Telecommunications and at Post Graduate level, the Department is offering Master of Engineering Degree in Electronics in Evening Program.

Facilities:

Department Of Electronic Engineering maintains several well equipped laboratories for basic & advance Electronics & c Telecommunications courses.

Laboratories for B.E (Electronic):

1. VLSI, DSP & Opto Electronics Lab.
2. Microcontroller/Microprocessor & PLC Laboratories.
3. PCB (Printed Circuit Board) Laboratory.
4. Digital Electronics & Integrated Circuits Laboratories.
5. Power Electronics & Industrial Electronic Laboratories
6. Basic Electronics & Electronic Devices & Circuits Laboratories.
7. Computer Laboratory.

Laboratories for B.E (Telecomm.):

1. Advanced Telecommunications Laboratory
2. Microwave & Radar Laboratory
3. Radio Engineering Laboratory
4. Telematics Laboratory
5. Optical Fiber Communications Laboratory
6. PHS/WLL Laboratory
7. Computer Laboratory

Other Facilities:

1. Departmental Library.
2. Multimedia Projector & Over head Projector.
3. Internet Facility.
4. Licensed Electronic & Telecomm. Engineering Software's.

Courses offered by the Electronic Engineering Department

First Year

Electronic Engineering Drawing & Workshop
Basic Electronics
Basic Electrical Engineering
Introduction to Computers
Engineering Mechanics
Applied Thermodynamics
Applied Physics
Applied Chemistry
Calculus
English
Pakistan Studies OR
Pakistan Studies (for Foreigners)

Second Year

Electronic Devices & Circuits
Amplifiers & Oscillators
Programming with C Language
Circuit Theory-I
Instrumentation
Electrical Machines
Electromagnetic Fields
Logic Design & Switching Theory
Linear Algebra & Ordinary Differential Equations
Complex Variable & Fourier Analysis
Islamic Studies OR
Ethical Behaviour

Third Year

Integrated Circuits
Digital Electronics
Power Electronics

Industrial Electronics
Electronics in Bio-Medical Engineering
Circuit Theory-II
Communication Systems-I
Computer Architecture and Organization
Applied Probability & Statistics
Engineering Economics
Business Communication & Ethics

Final Year

Electronic Engineering Project
Solid State Devices
Linear Control Systems
Opto Electronics & Microwave Systems
VLSI Design
Communication Systems-II
Digital Signal Processing
Microprocessor & Assembly Language
Computer Communication Networks
Numerical Methods

Courses offered in the Telecommunications Engineering

First Year

Fundamentals of Electrical Engineering
Basic Electronics
Fundamentals of Computer Engineering
Engineering Surveying
Basic Mechanical Engineering
Engineering Drawing
Applied Physics
Applied Chemistry
Calculus
English
Pakistan Studies
Pakistan Studies (for Foreigners)

Second Year

Circuit Theory
Amplifiers & Oscillators
Programming with C Language
Instrumentation
Electrical Machines
Electromagnetic Fields
Computer Architecture & Organization
Complex Variable & Ordinary Differential Equations
Digital Electronics
Islamic Studies OR
Ethical Behaviour

Third Year

Antenna and Microwave Engineering
Electric Filters
Digital Signal Processing
Communication Systems
Microprocessor and Assembly Language
Communication Electronics
TV and Radar System
Applied Probability and Statistics
Engineering Economics
Business Communication & Ethics

Final Year

Digital Communication and Information Theory
Satellite Communication
Wireless Mobile / Cellular Communication
Multimedia Communication
Communication Management
Optical Fiber Communication
Computer Communication Networks
Internet Computing
Numerical Methods
Telecommunications Engineering Project

Carrier Prospects:

The graduates have been successful in securing good job positions in local & multinational industries and in attaining admission for Master's program in the country & abroad.

and to invent completely new devices. Here at Department Of Electronic Engineering, we believe in understanding fundamentals of our subject, as well as working at the forefront of technology development.



Final Note:

Engineering and more so Electronic & Telecomm. Engineering is an exciting field to study and lead to promising career opportunities.

Electronic & Telecomm. Engineering is at the heart of all modern technology, with electronic devices being incorporated into everything from hand tools and washing machines to palmtop, laptop, desktop, mainframe and super-computers, from fixed and mobile communication systems to entertainment systems, medical diagnostics... the list is almost endless. Electronic & Telecomm. Engineers use their ingenuity and skills to design, develop and build such products,



**DEPARTMENT OF
ELECTRONIC
ENGINEERING**



**NED UNIVERSITY
OF ENGINEERING
& TECHNOLOGY,
KARACHI.**

For Further Information

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