

## DEPARTMENT OF ELECTRONIC ENGINEERING



## NED UNIVERSITY OF ENGINEERING & TECHNOLOGY, KARACHI

For Further Information  
UNIVERSITY ROAD  
KARACHI-75270  
TEL: 021-99261261-8  
Ext 2270/2215  
FAX: 021-99261255

<http://www.neduet.edu.pk>  
Email: [cld@neduet.edu.pk](mailto:cld@neduet.edu.pk)

## DEPARTMENT OF ELECTRONIC ENGINEERING

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.

### FACILITIES

Department of Electronic Engineering maintains several well equipped laboratories for basic & advance Electronics & Telecommunications courses. Laboratories for B.E Electronic include:



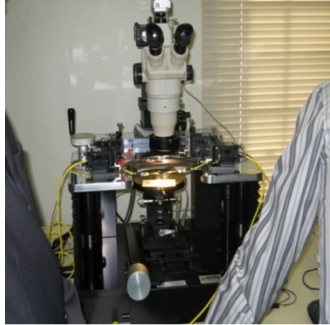
1. VLSI Laboratory.
2. DSP (Digital Signal Processing).
3. A & O (Amplifiers & Oscillators) Lab.
4. PLC (Programmable Logic Controller Laboratory)
5. PCB (Printed Circuit Board) Lab.
6. Digital Electronic Laboratory.
7. I.C (Integrated Circuits Laboratory.)
8. I.E.P.E (Industrial & Power Electronic)
9. B.E.L (Basic Electronics Laboratory.)
10. Electronic Devices & Circuits Laboratory



## ELECTRONICS DESIGN CENTRE

Electronics Design Center performs cutting-edge fundamental and commercially driven research in electronic devices and circuits, radio frequency and microwave integrated circuits. Since its inception (January 2011), EDC's primary objectives have been to investigate scientific fundamentals necessary to obtain incessant improvements in ultimate miniaturization, increased functionality, enhanced bandwidth and improved efficiency. At present, EDC consists of following facilities:

- RF (Radio Frequency) Labs
- DC (Device Characterization) Lab
- Design Tools



### OUR DEPARTMENT

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



## HIGHLIGHTS OF ELECTRONICS 2010-2011

### Career Expo

The Department of Electronic Engineering and the Department of Telecommunications

Engineering, NED University of Engineering and Technology, organized "Career Expo 2011-where Education meets Opportunity" on Saturday, 10<sup>th</sup> September 2011. The event incorporated three activities:

1. On-campus Job Fair
2. Final Year Project Poster Exhibition
3. Sessions and Counseling for studying abroad

The event was specifically targeted at Final Year Students of both the Departments as they will be graduating in December 2011. The idea was to create a convenient platform for both employers and candidates to meet and learn about each other. It also provided a venue where employers could review their prospective employees.



### ElectroComm

Electrocomm is a project competition organized for

the first year students of electronics and telecommunication. The competition requires a telecomm based electronic hardware device. Each team consists of electronics and telecomm undergraduate working together. The competition is a key step in developing the young minds of our students and taking them to a higher level of understanding of their field and also infusing in them confidence to deal with different scenarios.

## **Project-based learning**

Electronics department has introduced project-based learning for all the four years. Students have been given different projects throughout the year as a part of their study curriculum. This has enhanced the confidence of the students and also taught them self-learning. Our motto, first and foremost, is to help the students in 'Learning to Learn'.

## **ALL-PAKISTAN SPEC 2010**

The exhibition was a One-day event. Altogether 150 quality projects were displayed in the exhibitions which were highly appreciated. The event received official media coverage of Express news Channel and FM 107. The event was highlighted by Dawn, Nawa-e-Waqt, Jung and Express Newspaper.

## **NIMDRC**

United Nations with collaboration with National Instruments Arabia organized a Mine Detecting Robotics Contest to be held in Lebanon. Our team from Second year was named Among the top 10 teams of this international event.

## **SEMINARS AND WORKSHOPS**

### **• Multi Speaker FPGA Seminar:**

The seminar was a houseful with not just the students of NED but students from NUST, FAST, IIEE and

USMAN University among the attendees too. The seminar was a success as Students appreciated getting an update on the recent developments in the field of electronics.

### **• Seminar on "How to Shine in your Career":**

The Electronics department not only Helps its students to keep up with the latest developments, but also helps them to improve their working capabilities. This seminar proved beneficial for the BE students who were in their pursuit of a good job and also for TE students who are out on a look for their internships.

### **• Labview Workshop:**

A software training workshop which comes in handy while bringing out an Electronic based solution to a problem.

### **• Microcontroller Workshop:**

A microcontroller workshop has also been organized for eager first year students. We, at electronics, believe in helping our students in whatever area they need polishing in.

## OUR STUDENTS

The students of Electronics are a source of great pride. Our students excel not only in academics but in extracurricular activities as well namely debating, photography, sports etc. The boy's hockey team won the intra-university tournament in 2010. Our women sports team has been bagging victories for years now, holding position this year too in basketball, throw ball and volleyball tournaments. Alongside our students have been organizing university wide events such as Sentec; an inter university project competition and intra university quiz competition.



## OTHER EVENTS INCLUDE

1) Robotics Workshop

- 2) Lecture on Introduction to Algorithms
- 3) Lecture on WLAN
- 4) DSP Kit Training
- 5) Box Office (Short Film & Animation Contest)
- 6) IEEE (NED branch) recruitment
- 7) Workshop on "Machine Vision"
- 8) Seminar on GSM & CDMA
- 9) Tour to Siemens Pakistan.
- 10) Seminar on future career options (in collaboration with AINIT consultancy).
- 11) SPARK (The Department's very own yearly magazine)

## CAREER PROSPECTS

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

## FINAL NOTE

Engineering and more so Electronics and

Telecomm. Engineering are an exciting field to study and lead to promising career opportunities. Electronic & Telecommunication 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 supercomputers, from fixed and mobile communication systems to entertainment systems, medical diagnostics... the list is almost endless. Here at Department Of Electronic Engineering, we believe in understanding fundamentals of our subject, as well as working at the forefront of technology development.

