

Extension Lectures Conducted

Expert lecture on 'Next Generation Networks'

An expert lecture was organized on "Next Generation Networks" for the students of V semester on 30th September 2014 as part of Digital Switching Systems course. The talk was attended by 59 students.

The talk was delivered by Mr Chandran D Thomas, Sub Divisional Engineer, MPLS NOC, and Bangalore. Mr Chandran briefed about the Next Generation Networks (NGN) that provide telecommunication services. Talk was coordinated by Pushpavathi.K.P.

He discussed about the old and the new telecommunication networks. The convergence of wired, wireless and data services on a single technology platform was briefed upon along with the architecture of the network, their working and the protocols used.



The students were introduced to the various applications of NGN. They could understand how the different telecommunication services are possible in recent times. The session was interactive and the students found it interesting as they were related to the applications used by them day to day. The talk provided an insight on the future of the telecommunication networks.

Faculty Co-Ordinators: Pushpavathi.K.P

WIRELESS MESH NETWORKS

By,

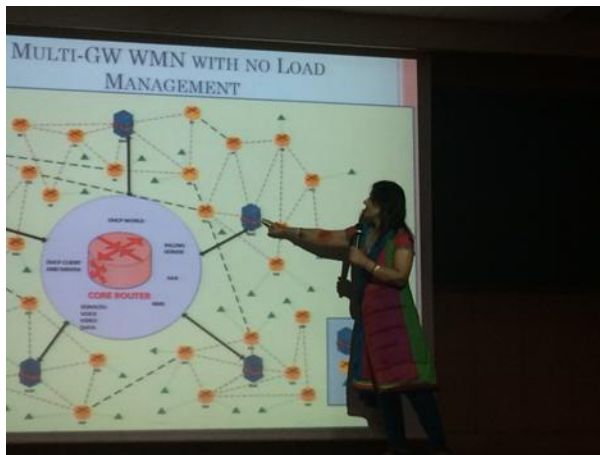
Dr. Soma Pandey , Consultant , Smart Grid Communications at Essel Vidyut Vitaran Nigam

On

10th October 2014

Sponsor: TEQIP-II

Statics of Participants: Students:45



Program Brief:

A regular and basic problem in networking can be answered by understanding the standards better. In case of LAN where Ethernet is used, we have a switch to route the packets. In other words the medium is shared in LAN and every node is listening to every other node. This scenario seems improbable in case of WAN or the internet where listening to all the other nodes is impossible and there will be complete chaos. In case of WAN it depends on time. Pinging a LAN is much faster than finding a node in a bigger network. Therefore it is a trade off between speed and time.

Names of Coordinators: C. Gururaj, Shreenivas B; Faculty – TE

Universal Software Radio Peripheral

By,

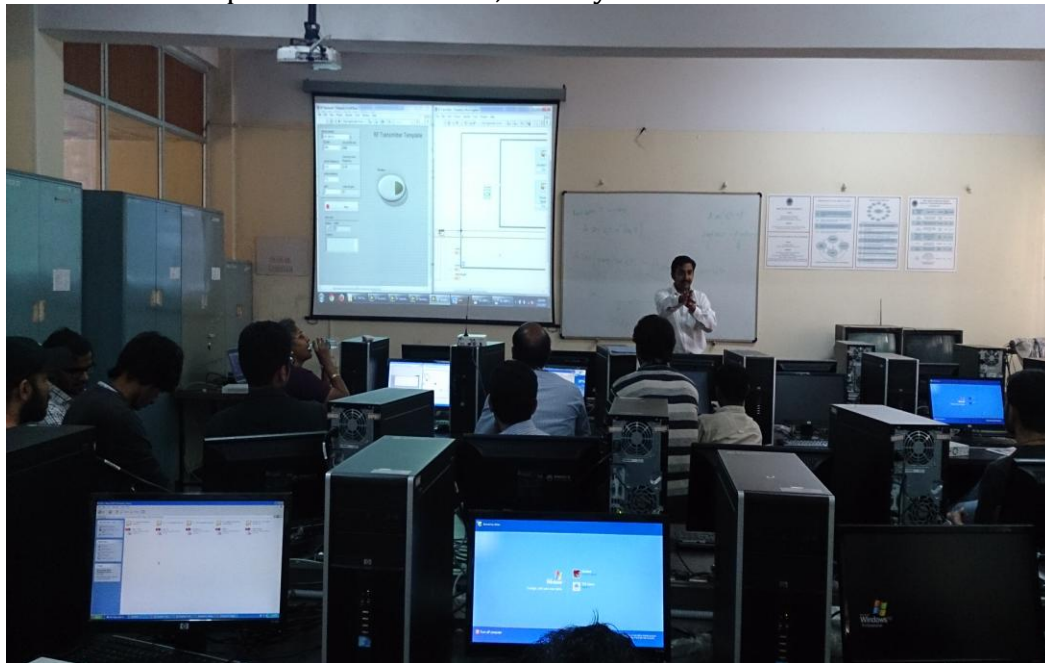
Mr. Raviteja Chivukula, Technical Marketing Engineer, National Instruments

On

14th February 2015

Sponsor: TEQIP-II

Statics of Participants: Students : 42, Faculty: 08



Program Brief:

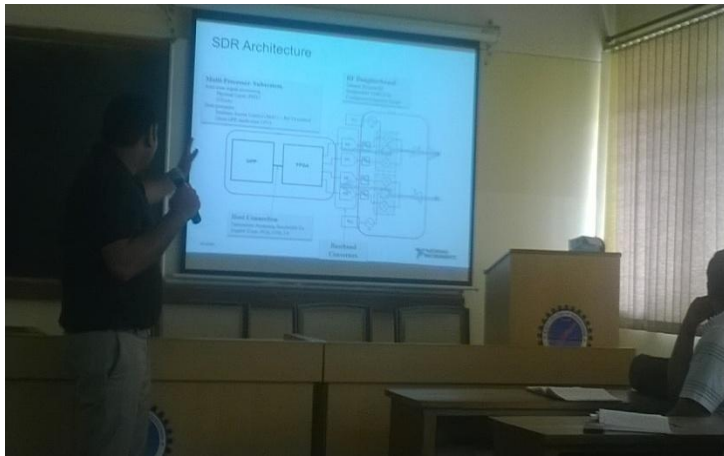
The sessions were interesting with Mr Ravitheja, National Instruments, Bangalore, as the resource person of the expert lecture. He briefed on the Software Defined Radio and its role in communication today.

Names of Coordinators: Dr. B Kanmani, Shreenivas B; Faculty – TE

Expert lecture on Software Defined Radio

An expert lecture was organized on “Software defined Radio“ for the students of VI semester on 3rd March 2015 and the talk was attended by 56 students of VI semester, 4 students from VIII semester and 4 faculties.

The talk was delivered by **Mr Karamvir Rathi**, Global Technical Sales, Ettus Research in National Instruments, USA. Talk was coordinated by Dr B.Kanmani, Pushpavathi.K.P and Shreenivas B. This interactive talk began with the introduction to Software Defined Radio and its architecture. It was interesting to know that this technology software, running on a generic hardware to implement radio frequencies, had a wide range of applications.



The talk gave some ideas on how the SDR is being used in applications like cellular base stations, Radar, Satellite Communications, Educations and many more. He also spoke on the areas of research possible using SDR and many more applications where work can be done. With this as the motivation, the students are coming up on working on SDR in future. The session was interactive and the students found it interesting as they were introduced to the wide applications of SDR.

Faculty Co-Ordinators:, Pushpavathi.K.P, Shreenivas B

IEEE Extension Lecture on Skill Development Needs in Semiconductor Industry

By
Mr. Damodara M.S., Product Support & Sales Manager, IEEE Bangalore Chapter on
15/04/15



Number of Students: 60

Number of Faculty: 5

Brief Summary: An IEEE Extension Lecture was conducted on 15th of April 2015 for the fourth semester telecommunication engineering students by Mr. Damodara M.S., Product Support & Sales Manager, IEEE Bangalore Chapter. The title of the talk was “Skill Development Needs in Semiconductor Industry”. The one hour lecture started with an introduction to the present day semiconductor industry scenario. The expert gave many examples of the practical implementations of various digital electronic circuits. He also emphasized about the real time verification of different HDL codes with an industry perspective. The expert also explained the need of Blended Learning program offered by IEEE for the students interested in the domain of semiconductor industry. The lecture concluded with a feedback session and a vote of thanks.

Names of Coordinators: N. Srinivasa Rao, C. Gururaj, Shreenivas B; Faculty – TE

TCS Telecom Engineering Capabilities
By,
M.H.Babu, Senior Consultant , TCS
On
15st April 2015 (9:00 am to 11:00 am)
Organized by
Department of Telecommunication Engineering

As part of the
Industry-Institute Activity

Statics of Participants: TE : 65



Outcome:

Introduction to product development, communication skill, introduction to modern tools

Workshop Brief:

TCS works jointly with companies such as Motorola, Nokia and Ericsson for user equipment and cell site. There are certain aspects to be taken into consideration during product development such as the gate count, number of logic elements etc. and depending on this, the code is developed and this code should fit within your device. Also, the distance between components should be taken into consideration for very high frequency applications.

Faculty Coordinators: Dr. B. Kanmani, Prasanna kumar MK, TE