



Engineered for Tomorrow

## *Workshop*

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### **WORKSHOP ON “COMPUTER NETWORKING CONCEPTS”**

The event took place at ISE Seminar Hall on **11<sup>th</sup> of August, 2012** from 10.00am to 3.30pm. The event started by an opening ceremony by MRS.SREE DEVI.N,(HOD, dept of ISE) has given an Introduction of the event and trainers were introduced by students. 50+ students and faculty from various departments of MVJCE have participated. Trainer **MR. ISHAN SAMBHI, ENGINEERING AND TECHNOLOGY SERVICES, CISCO, BANGALORE** explained the basics of computer networks, Networking fundamentals and networking devices in detail.

**MR. ISHAN SAMBHI** started with the detailed session on OSI Model with all the layers of OSI, focusing the difference between OSI and TCP/IP. He also explained the concept of IP Addressing, CIDR & VLSM by giving many examples of IP address. He also explained how to find the 1st and last network address and broadcast address. Then we had a lunchbreak.

Explanation about IOS basics and explained how the live working of real devices from CISCO, telnet, secure shell, Networking/Simulation basics in detail and in an interactive way, configuration of application layer protocol like DHCP, DNS. Hands on session using packet tracer software was an interesting entry to the networking concepts. **ISHAN SAMBHI** has Introduced the routing protocols and live configuration - Static, Default and dynamic routing in an interactive way and giving real time examples. Hands on session on devices, bring out how to configure devices and how to connect routers, switches and end users in the packet tracer software. Session the topic Switching , working of a switch , MAC table building process VLAN ,inter VLAN,VLAN trunking protocol ,spanning tree protocol in detail and in an interactive way. IPv6 and Difference between IPv4 and IPv6 along with how to represent the IPv6 address are explained.

#### **AGENDA FOR WORKSHOP**

- 10:30 AM: OPENING AND WELCOME SPEECH BY MRS.SREE DEVI.N, HOD, ISE.
- 10:35 AM: PRINCIPAL’S ADDRESS TO THE GATHERING
- 10:45 AM: INTRODUCTION ABOUT SPEAKER
- 10:50 AM: TCP/IP PROTOCOL SUITES, ROUTING INFORMATION
- 1-1:30PM: LUNCH BREAK

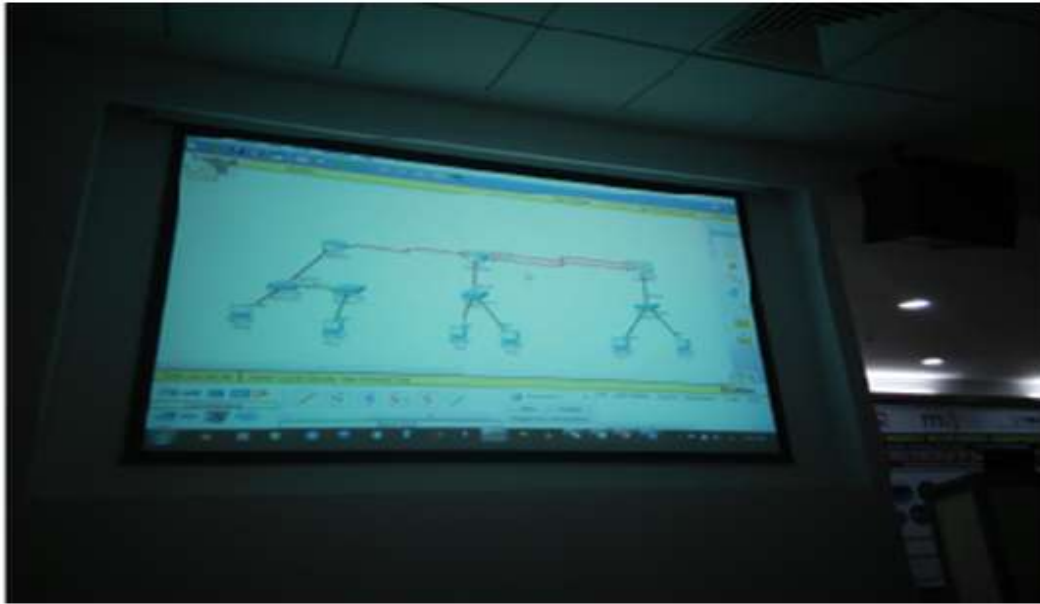
- 1.30-3:30 PM: WORKSHOP HANDS ON SESSION
- 3.30-3:45PM: VOTE OF THANKS



Participants during the session



**Students involved in Hands-on Session**



**Slides that illustrated the Real-time**



**CISCO trainer interacting with students**



### **Faculty involvement in Hands on Session**

At the end of workshop the students got the idea about recent networking technologies and Computer Networks is the subject in the academics. Since there is no lab for this subject, this workshop will help the students to know about the networking technologies and how they are implemented in real time. With the help of this workshop the gap between curriculum and Industry is filled, We have attained the PO's **Conduct investigations of complex problems, Modern tool usage, The engineer and society, Environment and sustainability, Lifelong learning.** This Workshop on Networking has provided an ability to understand analyze and develop computer programs in the areas related to networking for computer based systems of varying complexity. The practical sessions have helped the students to find solutions for real world problems with a broad range of programming languages and opensource.

  
**Principal Signature with Seal**  
**Principal**  
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