



***Department of Electronics and Telecommunication Engineering***

---

**Report on ISTE Approved One Week Short Term Training Program on**

**“Advanced Networking and Network Security”**

**Organized by Electronics and Telecommunication Department**

Networking is found to be fastest growing occupation, faster than the average for all occupations and will continue to grow as investments are made in newer, faster technology. This STTP provides comprehensive coverage of networking topics, from fundamentals to advanced applications and services while providing opportunities for Hands-on practicals on softwares like NS2 and Python. The purpose of this STTP is to bring together researchers & PG students from academia and Engineers & Scientists from industry and R&D institutes to have discussions on the recent advances in network areas. This course also provides fundamental knowledge on growing fields of Cloud Computing and network security

Topics Covered in STTP on “Advanced networking and Network Security”

- Ns2 Installation with Basics of ‘Tcl Scripting’.
- Hands-on Training on Computer Communication Networks
- Cloud Computing.
- Network Security
- Ethical hacking
- Protocol Visualization using Packet Tracer
- Different Protocol analysis using Wireshark

At the end of STTP participants are able to

- ✓ To get familiarized with Basics of networking and Python Programing.
- ✓ To learn about recent trends of research in field in Networking.
- ✓ Develop innovative design for practical applications in various fields
- ✓ To learn about networking topics , from fundamentals to advanced applications
- ✓ After the completion of this course the participants will be able to design, simulate different routing protocols using NS2
- ✓ Participants will have a brief knowledge of network security



***Department of Electronics and Telecommunication Engineering***

---

The University of Mumbai introduced revised curriculum which includes, Computer Communication and Telecom Networks as compulsory subject for the third year students in SEM VI as well as Internet and Voice Communication as a compulsory subject for the final year students in SEM VIII

With keeping this as an intension the ISTE approved STTP was conducted from 2<sup>nd</sup> May to 6<sup>th</sup> May, 2017 in VIVA Institute of Technology, Electronics and Telecommunication Engineering Department.

Details of the speakers is as under

| SN. | Name of the Guest Speaker | Details of the Speaker                               | Topics Addressed  | Date       |
|-----|---------------------------|--|---|------------|
| 1   | Dr. Dayanad Ambawade      | Assistant Professor<br>SPIT, Andheri,<br>mumbai      | LAN setup: LAN Configuration<br><br>TCP/IP Networking: IP Configuration and Network Commands, TCPDUMP and Wireshark<br><br>Server Configuration :Install and configure FTP server, TELNET/SSH, Web server<br><br>Python Network Programming: Client and Server basics | 02/05/2017 |
| 2   | Mrs. Nitika Rai           | Assistant Professor,<br>SFIT, Borivali,<br>Mumbai.   | Ns2 Installation with Basics of Tel Scripting<br><br>Protocol Simulation<br><br>NS2 Hands -On   | 03/05/2017 |
| 3   | Mr. Nitesh Kumar          | Associate Professor,<br>Viva School of<br>MCA, Virar | Introduction to Cloud computing.<br><br>Securities in Cloud Computing.  | 04/05/2017 |



***Department of Electronics and Telecommunication Engineering***

|          |                     |   |   |            |
|----------|---------------------|---|---|------------|
|          |                     |   |   |            |
| <b>4</b> | Mr. Shivam Patoliya | CEO & Founder at ShkruHack Institute of Ethical Hacking, Mira Bhayander | Ethical Hacking and Network Security Hands-on | 05/05/2017 |

Participants were the teaching faculty of Engineering College. Total of 14 faculty members participated in the One week Short Term Training Program conducted.

In valedictory function institute had received the feedbacks from the participants that they have learned and enhanced their knowledge in this STTP and they would always want to attend this kind of STTP in this institute once again. The overall feedback of the Training Program was encouraging and was highly rated by the participants.