



Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE New Delhi, Recognized by DTE, Govt. of Maharashtra

And Affiliated to University of Mumbai

NAAC "B++" Grade

Department of Electronics and Telecommunication Engineering

Name of Course: Computer Networks And Internet Protocol .

Duration: 30 hours

Sr.no	Contents	Hrs.
1	Introduction to Computer Networks – History, Circuit Switching and Packet Switching	02
2	TCP/IP Protocol Stack – Basic Overview	02
3	Application Layer Services (HTTP, FTP, Email, DNS)	02
4	Transport Layer Primitives – Connection Establishment and Closure	03
5	Flow Control and Congestion Control at the Transport Layer	03
6	Transmission Control Protocol – Basic Features, TCP Congestion Control	02
7	Network Layer Primitives – IP Addressing	03
8	IP Routing – Intra Domain Routing Protocols, Inter Domain Routing Protocols (BGP)	03
9	IP Services – SNMP, ARP	03
10	Data Link Layer Service Primitives – Forwarding, Flow Control, Error Control	03
11	Media Access Control - Channel Access Protocols, Framing	02
12	End to End Principles of Computer Networks	02



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Report

Duration: 30 Hours

Venue: VIVA Institute Of Technology, Shirgaon.

Electronics & Telecommunication Engineering Department of VIVA Institute of Technology organized a 30 hours' certificate course on "Computer Networks And Internet Protocol " during **10th January 2024 to 10th April 2024.**

The workshop was basically aimed to provide basic knowledge to third year of semester 6 of EXTC students of Computer networks And Internet Protocol which was conducted by Mrs. Ashwini as the speaker who guided the participants regarding the basics of computer Network and TCP/IP protocol stack and touch on the next generation computer networks.

The students gave the positive feedback for the bridge course and curriculum gam was filled regarding next generation computer network.



Course Objectives

1. The architecture and principles of today's computer networks.
2. The protocols and their functionalities.
3. The requirements for the future Internet and its impact on the computer network architecture..

Course Outcomes:

After successful completion of the course, the students are able to

1. To know the computer network, different protocol stack, services at different levels
2. To know the network level primitives, IP routing and IP services.
3. To know Data Link Layer Service Primitives – Forwarding, Flow Control, Error Control, MAC and end to end Principle of Computer Network.



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Model Certificate

	Vishnu Waman Thakur Charitable Trust's VIVA Institute of Technology Shirgaon, Virar (East), Dist: Palghar-401305, Maharashtra Website: www.viva-technology.org NAAC "B++" Grade
<h2>Certificate of Appreciation</h2>	
This to certify that Mr. / Ms. _____ student of Electronics & Telecommunication Department has successfully completed bridge course on "PCB TESTING, DEBUGGING AND TROUBLESHOOTING" at VIVA Institute of Technology, Shirgaon, Virar(E) conducted between 9 th January 2024 to 2 nd April 2024. His / Her contribution is appreciated.	
 (Mrs. Archana Ingle) HEAD OF DEPARTMENT	 (Dr. Arun Kumar) Principal



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STUDENT CERTIFICATE

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<h3>Certificate of Appreciation</h3>	
<p>This to certify that Mr. / Ms. <u>OMKAR HALLI</u> student of Electronics & Telecommunication Department has successfully completed bridge course on " Computer Network and Internet Protocol" at VIVA Institute of Technology, Shirgaon, Virar(E) conducted between 9th January 2024 to 12th April 2024. His / Her contribution is appreciated.</p>	
 <hr/> <p>(Mrs. Archana Ingle) HEAD OF DEPARTMENT</p>	 <hr/> <p>(Dr. Arun Kumar) Principal</p>