Faculty Development Programme (FDP) / Short Term Training Programme (STTP)

on

Introduction
to
Applied IP Networking (SPL10C)

Application Link:
https://payments.billdesk.com/bdcollect/bd/nittkolkata/10074

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Venue: NITTTR, Kolkata

Duration: July 24 - 28, 2023 (1week)

National Institute of Technical Teachers' Training & Research
Block – FC, SEC – III Salt Lake City, Kolkata – 700 106.

http://www.nitttrkol.ac.in

About the Program

A **Faculty Development Programme (FDP) / Short Term Training Programme (STTP)** is being conducted in **Contact Mode** at **NITTTR, Kolkata**, during the period **July 24 - 28, 2023** for **1 week**, for the teachers and technical staff of the Technical Institutions. The title of the program is **"Introduction to Applied IP Networking"**. The program aims to train the participants in Computer Networking and its deployment. The program is designed keeping in mind the heterogeneous participation in nature. The Teachers, Laboratory Assistants, Programmers, Systems Analysts, and Network Professionals of the various Technical Institutions, who are the participants of this program, normally maintain their infrastructure or have flair to maintain the IT systems. The participants are expected to interact in this program keeping in mind their own infrastructure design and layout.

Prerequisite of this Program: The participants of this program are expected to have basic knowledge in the field of Computer Networking and Internet.

Aim of the Course: The aim of this program is to provide an overview of the Computer Networks and Internetworking Systems, along with knowledge and skill set required for deployment and maintenance of the network system.

Learning Outcomes: After successful completion of this program the participants will be able to:
- Explain the concept of Computer Network and Internetwork,
- Identify the various components of Network and Internetwork,
- Explain various network Topologies, Media, Protocols, and Devices used in networks,
- Analyse the various protocols in TCP/IP Suite,
- Explain LAN and VLAN,
- Apply the concept of Switching and Routing,
- Demonstrate configuration of the devices such as Routers, Switches, etc.,
- Demonstrate the concepts related to Network Security

Notional Learning Hours: The notional learning hours will be around 46 hours.

Course Fee: Rs. 300/- per participant

Training Methodologies: This training program will have Presentation Sessions followed by Hands-on-Practice Sessions, Group Work, Self-Study, Virtual Laboratory and Open Discussion Session. The Program is expected to be interactive in nature with input and feedback from the participants during the entire duration.

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National Institute of Technical Teachers' Training and Research
Department of Computer Science and Engineering
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Introduction to Applied IP Networking

Venue: NITTTR, Kolkata   **Duration: July 24 – 28, 2023**

Provisional Schedule

Contact Mode (30 Hours Approx)

Date	Morning Session			L U N C H B R E A K	Post Lunch Session	
July 24, 2023	Registration	Basics of Networking & Internetworking	Network Media		Network Topology	*Laboratory Session- Network Setup*
July 25, 2023	TCP/IP	IPv4 / CIDR / IPv6			*Hands-on-Practice on Operation of a Computer Network*	
July 26, 2023	Switches & Enterprise LAN				*Hands-on Practice on Switch Configuration*	
July 27, 2023	Routing & Router Configuration				*Hands-on Practice on Router Configuration*	
July 28, 2023	Basics of Network Security	*Firewall (Demo)*			*Assessment Session*	Valediction

Self-Study Mode & Assignments (16 Hours Approx)

Duration	60minutes	60 minutes	60 minutes	90 minutes
July 24, 2023			Basic Concept of LAN & VLAN	Implementing VLAN in Switches
July 25, 2023	*SLAAC & DHCP Protocol: IPv4 & IPv6*	IPNAT	Proxy Server	Assignment # 1
July 26, 2023	Institutional IT Infrastructure Management: DNS, Website, Email.		Principles of Security	Assignment # 2
July 27, 2023	Identity and Access Management	*Campus Network Design*	*Campus Network Design*	

Contact Mode Timings **:**
Morning Session   :   10:00 – 13:00 Hrs
Post Lunch Session   :   14:00 – 17:00 Hrs
Lunch Break   :   13:00 – 14:00 Hrs
Tea Break   :   11:35 – 11:45 Hrs & 15:35 – 15:45 Hrs

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