



Date: - 30th Oct, 2020

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING  
UNIVERSITY POLYTECHNIC**

To,  
The Hon'ble Vice Chancellor,  
GLA University

Through Proper Channel:

**Sub:** Request to grant the permission for **30 Hrs** Value Added Course on “**Routing and Switching Essentials**”.

Dear Sir,

We want to organize **30 Hrs** Value Added Course on “**Routing and Switching Essentials**” in order to enhance the knowledge and technical skills of the students of B. Tech (CSE, EC, EE), Diploma-CS, BCA & MCA from 2<sup>nd</sup> Nov., 2020 to 22<sup>nd</sup> Nov., 2020. Sir the registration fee for the course is Rs. 500 per students and the honorarium shall be given to the resource persons is Rs. 5000 each.

Therefore, you are requested to grant the permission for the same.

*Mridul Dixit*  
Mridul Dixit,  
Lecturer, Dept. of CSE,  
University Polytechnic  
GLA University, Mathura

*Forwarded to Hon'ble VC*  
*30/10/20*

*Approved*  
*FC Unpla*  
*30/10*



## Budget Proposal for Value Added Course on "Routing and Switching Essentials"

Minimum Participants: 30

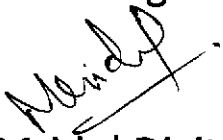
Fees Per Participants: Rs. 500/-

Minimum Total Collection: Rs. 15000/-

There are two external Resource Persons, honourarium to be paid Rs. 5000/-.

1. Mr. Navpreet Singh.
2. Mr. Ananth B.S. (Need not to pay honourarium).

Thanking You

  
Mridul Dixit  
Lecturer,  
Dept. of CSE  
GLA University

**NAVPREET SINGH**

Chief Engineer,  
Computer Centre, IIT Kanpur

**Contact Information :**

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**Area of Interest :**

Network Design, Implementation, Management, Security and Performance Analysis, Web Programming.

**Academic Achievements :**

B.Tech (Bachelor of Technology)	Indian Institute of Technology, Kanpur	1990	Electrical Engineering
M.Tech (Master of Technology)	Indian Institute of Technology, Kanpur	1996	Telecom Networks

**Work Experience :**

Larsen and Turbo	Trainee	June 1990 - August 1990
Punjab Wireless Systems Ltd.	Senior Engineer	September 1990 - August 1992
Indian Institute of Technology, Kanpur	Research Engineer	September 1992 - November 1998
Indian Institute of Technology, Kanpur	Principal Engineer	December 1998 - October 2014
Indian Institute of Technology, Kanpur	Chief Engineer	November 2014 -

## About Myself :

I was born and brought up at IIT Kanpur. After completing my schooling at Central School, IIT Kanpur, I cleared JEE with an All India Rank of 80 and joined B.Tech in Department of Electrical Engineering at IIT Kanpur. I passed out in 1990 with a CPI of 9.7 and joined Larsen and Toubro as Trainee. Very soon got bored with Mumbai life style and shifted to Chandigarh to join Punjab Wireless. I worked there for 2 years in the area of Mobile Communication. I got experience in both design and production departments.

Then I decided that I will go for further studies, so I came back to IIT Kanpur in 1992. I joined as Research Engineer in Department of Electrical Engineering and joined M.Tech in Telecom Networks as a part time candidate. I completed my M.Tech in fall of 1995 with a CPI of 9.25. My M.Tech thesis was in the area of ATM.

IIT Kanpur was at that time gearing up to lay down a robust Local Area Network in the campus. I was identified as a resource person to carry this activity. I shifted to Computer Centre as Senior Engineer in 1998. Since then I am working in Computer Centre. I am the Network Administrator of IIT Kanpur and I have played an instrumental role in in designing and building one of the largest Campus Networks in the country.

Presently IIT Kanpur has a Campus Network with more than 25000 nodes serving more than 10000 users. I am in charge of Networks Group and with a team of ten young and energetic professionals, I manage and maintain the IITK Network and Network Services. Responsibilities of the Network Group include:

- Monitor the Network on daily basis.
- Attend to complaints related to Network faults.
- Liason with ISPs.
- Planning for future expansion and enhancements.
- Manage Internet Proxy, Web, Name and WebMail servers.

I have also executed several Consultancy Projects.

### Some of the recent Projects I have completed are:

#### *1. Design and Implementation of WAN for Dainik Jagran.*

Dainik Jagran has connected 25 publishing and printing centers in the country over a WAN using Leased Lines. The network provides data and voice (VoIP) connectivity between all the offices. The network is designed with alternate routers and ISDN and PSTN dial backup.

#### *2. Design and Implementation of Campus LAN for IIIT, Allahabad.*

IIIT, Allahabad is implementing a campus wide network of about 2000 nodes. Various buildings in the campus are interconnected over 9mm Single Mode Fiber providing Gigabit connectivity. The Access network is on Enhanced Cat5 Cabling providing 10/100 Mbps Ethernet Connectivity.

#### *3. Design and Implementation of LAN for UP Stock Exchange.*

UP Stock Exchange have implemented a 1000 node LAN providing connectivity to BOLT system in Bombay Stock Exchange over VSAT and leased line.

#### ***4. Design and Implementation of Campus LAN of NBRI, Lucknow.***

NBRI has implemented a campus LAN with Fast Ethernet Fiber Optic backbone on Multimode Fiber and Internet connectivity using Leased Line From BSNL.

#### ***5. Design and Implementation of LAN for Subhash Institute of Technology, Kanpur.***

SIST has implemented a small LAN interconnectivity its PC Labs and Offices.

 Sources :

Network Course

Linux Course

IPv6 Course



Mr. B S Ananth, Technical Manager - India and SAARC Region at Cisco Systems.

- Development and Implementation of Worldwide Instructor Professional Development plan.
- Assessing the new tools for learning like games, mobile applications, contests and virtual classrooms.
- Build a strategic plan for the overall success and sustenance of the program
- Participate in product reviews to provide valuable input from the field and participate in testing and product quality initiatives.
- Work with Global corporate team to develop skills initiative program.
- Random site visit to local academies to evaluate instructor technical proficiency, quality metrics (equipment, class sizes etc...)
- Create gap analysis and mitigation plan for academy instructors (Instructor Development).
- Collaborate with in country teams to ensure effective implementation of instructor training
- Monitor instructor training, to ensure quality and suitability of delivery
- Oversee quality assurance program, work with quality assurance academy, to ensure quality assurance process implementation
- Review Micro finance pilot project of technology sections of business plans submitted by applicants and confirm applicants' eligibility.
- Review progress reports provided by partners and present to appropriate management quarterly.
- Analyze progress and success of pilot to determine recommendation for continuation or termination. Make recommendations on changes to be made to program.
- Work with Learning with Cisco to develop pilot program to assess instructor readiness.
- Creation and delivery of training programs to the field team.

**GLA UNIVERSITY  
UNIVERSITY POLYTECHNIC**

**SCHEDULE OF VALUE ADDED COURSE ON "ROUTING AND SWITCHING ESSENTIALS" FROM 2ND NOV. 2020 TO 22ND 2020**

S.No.	Date	Topic	Timings	Resource Person
1	2 <sup>nd</sup> Nov. 2020	Introduction to Packet Tracer The User Interface Simulation View	4 PM TO 6 PM	Mridul Dixit (Internal)
2	3 <sup>rd</sup> Nov. 2020	Packet Tracer Usage PT Basics Quiz Creating and Controlling a Smart Home Network	4 PM TO 6 PM	
3	4 <sup>th</sup> Nov. 2020	Packet Tracer Environment Controls Creating and Programming Objects in PT PT Basics Quiz	4 PM TO 6 PM	
4	5 <sup>th</sup> Nov. 2020	Ch. 1 - Explore the Network	4 PM TO 6 PM	Prof. Diwakar Bhardwaj (Internal)
5	6 <sup>th</sup> Nov. 2020	Ch. 2 - Configure a Network Operating System	4 PM TO 6 PM	
6	7 <sup>th</sup> Nov. 2020	Ch. 3 - Network Protocols and Communications	11 AM TO 1 PM	
7	8 <sup>th</sup> Nov. 2020	Ch. 4- Network Access	11 AM TO 1 PM	
8	9 <sup>th</sup> Nov. 2020	Ch 1 & 2 Quiz	4 PM TO 6 PM	Mridul Dixit (Internal)
9	10 <sup>th</sup> Nov. 2020	Ch 3 & 4 Quiz	4 PM TO 6 PM	
10	11 <sup>th</sup> Nov. 2020	CH- 5 Ethernet + Quiz	10 AM TO 12 PM	
11	17 <sup>th</sup> Nov. 2020	CH - 6 Network Layer	4 PM TO 6 PM	
12	18 <sup>th</sup> Nov. 2020	CH - 7 IP Addressing	4 PM TO 6 PM	
13	19 <sup>th</sup> Nov. 2020	CH - 8 Subnetting IP Networks	4 PM TO 6 PM	
14	20 <sup>th</sup> Nov. 2020	CH - 6,7 & 8 Quiz	4 PM TO 6 PM	
		CH - 9 Transport Layer		
15	21 <sup>st</sup> Nov. 2020	CH - 10 - Application Layer CH - 11 - Build a Small Network	10 AM TO 12 PM	
		CH - 9,10 & 11 Quiz	3 PM TO 4 PM	
16	22nd Nov. 2020	Final Exam	10 AM TO 12 PM	Aditya Gautam (Internal) Mridul Dixit (Internal)

Mridul Dixit (Convenor)  
Lecturer, Dept. of CSE  
University Polytechnic, GLAU