



# Malla Reddy Engineering College

An UGC Autonomous Institution, Approved by AICTE, New Delhi & Affiliated to JNTUH,  
Hyderabad, Accredited by NAAC with 'A++' Grade (III Cycle), Maisammaguda (H),  
Medchal-Malkajgiri, Secunderabad Telangana-500100 [www.mrec.ac.in](http://www.mrec.ac.in)

## DEPARTMENT OF INFORMATION TECHNOLOGY

### REQUISITION LETTER

Date: 10-10-2022

To

The Principal,  
Malla Reddy Engineering College (Autonomous),  
Maisammaguda, Dhulapally,  
Secunderabad – 500100.


**Sub - Seeking Permission to conduct Value Added Course on “Networking”- Reg.**

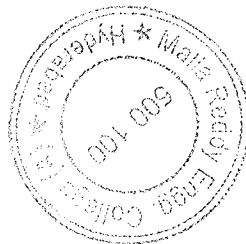
Respected Sir,

In connection with the training programs being organized to get knowledge on recent technologies, department of IT is planning to organize a 30 hours value added program on “Networking” from 17.10.2022 to 22.10.2022 for III Year Students. Hence I requested you to grant permission to organizing the value added Program on “Networking” in the above said dates.

Thank you Sir,

Yours Sincerely,

  
Principal  
Malla Reddy Engineering College  
Maisammaguda, Dhulapally,  
(Post Via Kompally), Sec-bad-500100.



  
Head, IT  
Dept. of Information Technology  
Malla Reddy Engg. College (A)  
Maisammaguda-500100.



## Malla Reddy Engineering College

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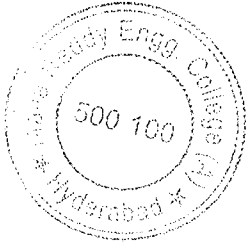
### DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 14.10.2022

#### CIRCULAR

All the Students of III-I are hereby informed that Value Added Course on “**NETWORKING**” from 17.10.2022 to 22.10.2022 is being organized by the Department of Information Technology. The Resource Person for the course is Ms.Harika, Trainer in ViHave Innovations Pvt Ltd. Students are advised to register names to the program coordinator Ms.P.Swapna on or before 17-10-22.

The detailed schedule of the program will be displayed in the notice board.



*Principal*  
Principal  
Malla Reddy Engineering College  
Maisammaguda, Dist:spally,  
(Post Via Kompally), Sec:bad-500100.

Head  
Dept. of Information Technology  
HOD-IT  
Malla Reddy Engg. College (A)  
Maisammaguda-500 100.

Copy to:

- 1) Circulation in Students classroom
- 2) All HOD'S
- 3) Notice Boards
- 4) PA to Principal for filling

### About the Institution

**Malla Reddy Engineering College (Autonomous)** is one of the reputed engineering colleges in Hyderabad, Telangana. **MREC (A)** is part of Malla Reddy Group of Institutions (MRGI), founded by Sri. Ch. Malla Reddy, currently Hon'ble Minister, Labor and Employment, Factories, Women and Child Welfare and Skill Development, Govt. of Telangana State. The college is situated in a serene, lush green environment in Maisammaguda, Gundlupochampally, Medchal (M), Medchal-Malkajgiri District Telangana - 500100.

The college was established in 2002 and is an autonomous institution approved by UGC and affiliated to JNTUH. The college is re-accredited by NAAC with 'A' Grade (II Cycle) and was conferred autonomous status by JNTUH in 2011 and by UGC in 2014 for a period of 6 years. Our eligible UG and PG programs received NBA accreditation and some of them received reaccreditation too. The college caters to wide ranging aspirations and goals of student communities by offering new courses in **UG- Cyber Security, Artificial Intelligence and Machine Learning, Data Science and IOT** along with programs in various streams of Engineering & Technology and Management. It boasts of world-class infrastructure and well-equipped laboratories in all departments and is skillfully and smartly guided by **Dr. A. Raveendra, Principal, MREC (A)** who have a rich teaching and industrial experience.

### Advisory Committee:

**Chief Patrons:** Sri. Ch. Malla Reddy, Minister-Telangana State-India.  
Founder Chairman  
**Malla Reddy Group of Institutions**  
**Patrons:** Sri. Ch. Mahender Reddy Secretary, MRGI  
**Dr. Ch. Bhadra Reddy**  
President, MRGI  
**Co-Patrons:** **Dr. A. Ramaswami Reddy**  
Principal, MREC(A)  
**Convener:** **Dr. M. Deena Babu**  
HOD IT  
**Coordinator:** **Mrs. P. Swapna**  
Assistant Professor, IT

### Organizing Committee:

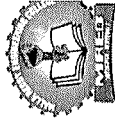
**Mr. K. Saidi Reddy**, Assistant Professor, IT  
**Ms. Devi Sravani**, Assistant Professor, IT  
**Mr. N. Satish Kumar**, Assistant Professor, IT

### About the Department:

The Department of Information Technology was established in 2007 with intake of 60 Students and with specific Vision, Mission and Goals. From the day college was affiliated to Jawaharlal Nehru Technological University, Hyderabad (JNTUH) and recognized by AICTE, New Delhi the Department works under the Rules and Regulations JNTUH and AICTE. The course curriculum proposed by the JNTUH will be implemented strictly. However, if required the Department proposes modifications or inclusions of new courses in the curriculum to the JNTUH for consideration.

Malla Reddy Engineering College (A)

*(Post Via Kompally), Sec-6-500100*



*A One-Week Training program  
(Value added Course)*

*On  
"Networking"  
(17<sup>th</sup> to 22<sup>nd</sup> Oct, 2022)*



*Organized by  
Department of*

**Information Technology**  
**MALLA REDDY ENGINEERING COL**  
(AUTONOMOUS) MAIN CAMPUS  
An UGC Autonomous Institution, Appr  
AICTE & Affiliated to JNTUH-Hydr;  
Reaccredited by NAAC with 'A++' Grade (II  
Maisammaguda (H), Gundlupochampal  
Medchal (M), Medchal - Malkajgiri Di  
Telangana - 500100.

*Dept. of Information Technology  
Malla Reddy Engg. College (A)  
Maisammaguda-500100.*

*(Signature)*

*Malla Reddy Engineering College  
Maisammaguda, Dhulapally,  
(Post Via Kompally), Sec-6-500100*



**Malla Reddy Engineering College**  
An UGC Autonomous Institution, Approved by AICTE, New Delhi & Affiliated to JNTUH,  
Hyderabad, Accredited by NAAC with 'A++' Grade (3<sup>rd</sup> Cycle), Maisammaguda (H),  
Medchal-Malkajgiri, Secunderabad Telangana-500100 [www.mrec.ac.in](http://www.mrec.ac.in)

## Department of Information Technology


### “Value-Added Course on Networking”

#### Schedule

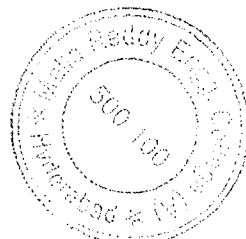
Day & Date	10:00-11:15AM	11:15-11:30AM	11:30AM-1:00PM	1:00-2:00PM	2:00-3:00PM
17/10/2022	Inauguration	<b>Tea Break</b>	Introduction	<b>Lunch Break</b>	Addressing
18/10/2022	Data Transmission		Types of Networks		Interconnection
19/10/2022	Network Topology Diagram		Protocols		Protocol Layers
20/10/2022	TCP/IP Model		Networks Interconnection/Internet		Hands On Experience
21/10/2022	Internet Protocol(IP)		Transmission Control Protocol		Hands On Experience
22/10/2022	User Datagram Protocol		Internet Application Protocol		Hands On Experience

  
Coordinator

  
HOD

  
Principal

Malla Reddy Engineering College  
Maisammaguda (H),  
Medchal-Malkajgiri, Secunderabad-500100





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### Value Added Course Enrolled List


### NETWORKING

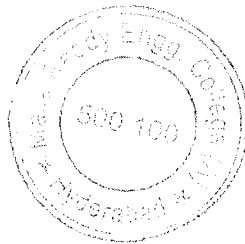
**(17.10.2022 to 22.10.2022)**


Sl.No	Roll No	Name
1	20J41A1201	A SHASHANK
2	20J41A1202	A. SAHITHI
3	20J41A1204	ATUL KR SINGH
4	20J41A1205	AVADHUTHA VAISHNAVI
5	20J41A1206	BANDI RISHITHA
6	20J41A1207	BEGARI SHIREESHA
7	20J41A1208	BHOMPALLY SATHVIKA
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11	20J41A1212	CHALUVADI SUMA SRI
12	20J41A1213	DASARI MANISH
13	20J41A1215	GADAM MANASA
14	20J41A1216	GADE SAI KRISHNA REDDY
15	20J41A1217	GANDLA UMA RANI
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33	20J41A1235	MOHAMMED REZWAN AHAMMED
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61	21J45A1203	GUDEM SAI VAMSHI
62	21J45A1204	MD UDAYKIRAN
63	21J45A1205	POOLA AKHILA
64	21J45A1206	RENIGUNTA DEEPAK

  
 Principal  
 Malla Reddy Engineering College  
 Mainamangalpet Road,  
 (Post Via Kompally), 500 100.



  
 HOD-IT  
 Dept. of Information Technology  
 Malla Reddy Engg. College (A)  
 Mainamangalpet-500 100.









52	20141A1254	TANAY GAUR	Choud	Choud	Choud	Choud	Choud	Choud	Choud	Choud	Choud	Choud	Choud	Choud	Choud	Choud	Choud	Choud
53	20141A1255	UPPUTURUNYASA CHOWDARY	Choud	Choud	Choud	Choud	Choud	Choud	Choud	Choud	Choud	Choud	Choud	Choud	Choud	Choud	Choud	Choud
54	20141A1256	VENKATA GOLLA SURAJ KUMAR YADAV	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav
55	20141A1257	VOBUGARI SAI MEGHANA	Sai	A	Sai	Sai	Sai	Sai	Sai	Sai	Sai	Sai	Sai	Sai	Sai	Sai	Sai	Sai
56	20141A1258	Y SHAMITHA	Sai	Sai	Sai	Sai	Sai	Sai	Sai	Sai	Sai	Sai	Sai	Sai	Sai	Sai	Sai	Sai
57	20141A1259	YENNI SAI KIRAN	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran
58	20141A1260	YARAMALA DILIP	Dilip	Dilip	Dilip	Dilip	Dilip	Dilip	Dilip	Dilip	Dilip	Dilip	Dilip	Dilip	Dilip	Dilip	Dilip	Dilip
59	21145A1201	BARLA MAHENDER	Barla	Barla	Barla	Barla	Barla	Barla	Barla	Barla	Barla	Barla	Barla	Barla	Barla	Barla	Barla	Barla
60	21145A1202	CHAKALI MAHESH	Chakali	Chakali	Chakali	Chakali	Chakali	Chakali	Chakali	Chakali	Chakali	Chakali	Chakali	Chakali	Chakali	Chakali	Chakali	Chakali
61	21145A1203	GUDEM SAI VAMSHI	Gudem	Gudem	Gudem	Gudem	Gudem	Gudem	Gudem	Gudem	Gudem	Gudem	Gudem	Gudem	Gudem	Gudem	Gudem	Gudem
62	21145A1204	MD UDAYKIRAN	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD
63	21145A1205	POOLA AKHILA	Poola	Poola	Poola	Poola	Poola	Poola	Poola	Poola	Poola	Poola	Poola	Poola	Poola	Poola	Poola	Poola
64	21145A1206	RENIGUNTA DEEPAK	Renigunta	Renigunta	Renigunta	Renigunta	Renigunta	Renigunta	Renigunta	Renigunta	Renigunta	Renigunta	Renigunta	Renigunta	Renigunta	Renigunta	Renigunta	Renigunta

HOD/IT  
H/Sad  
Dept. of Information Technology  
Malla Reddy Engg. College (A)  
Mairamguda-500 100.



Malla Reddy Engineering College  
(Post Graduate Studies Centre)  
Mairamguda-500 100



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### Value Added Course Certified Students List


**"NETWORKING"**

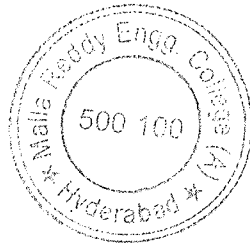
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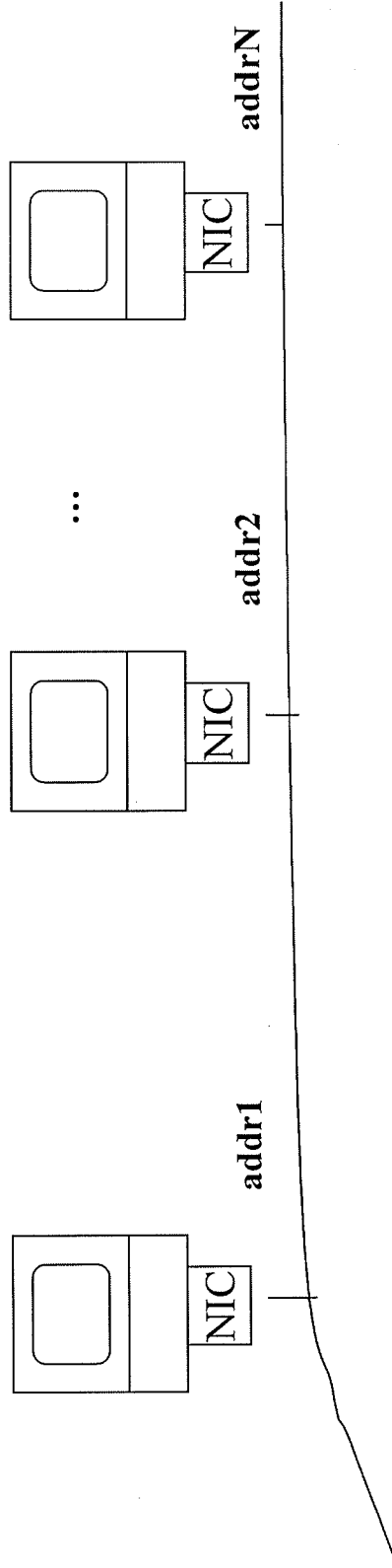
## 1. Introduction

- A network can be defined as a group of computers and other devices connected in some ways so as to be able to exchange data.
- Each of the devices on the network can be thought of as a node; each node has a unique address.
- Addresses are numeric quantities that are easy for computers to work with, but not for humans to remember.

*Example: 204.160.241.98*

- Some networks also provide names that humans can more easily remember than numbers.

*Example: www.javaSoft.com, corresponding to the above numeric address.*



An IP address identifies a host machine on the Internet.

An IP port will identify a specific application running on an Internet host machine.

A port is identified by a number, the *port number*.

The number of ports is not functionally limited, in contrast to serial communications where only 4 ports are allowed. There are some port numbers which are dedicated for specific applications.

<b>Applications</b>	<b>Port numbers</b>
HTTP	80
FTP	20 and 21
Gopher	70
SMTP (e-mail)	25
POP3 (e-mail)	110
Telnet	23
Finger	79



### ***Data Transmission***

- In modern networks, data are transferred using *packet switching*.
- Messages are broken into units called *packets*, and sent from one computer to the other.
- At the destination, data are extracted from one or more packets and used to reconstruct the original message.
- Each packet has a maximum size, and consists of a header and a data area.
- The header contains the addresses of the source and destination computers and sequencing information necessary to reassemble the message at the destination.

#### **packet**

**header**

1001....101

**data**

00010000111...0000000110001100



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### Department of Information Technology

#### Value Added Course

On

“Networking”

**Date:** 22/10/2022

#### Examination Question Paper

1. Which of the following is the actual IP address? [ ]
  - (a) Inside local address
  - (b) Inside global address
  - (c) Outside local address
  - (d) WAN
  - (e) None of these
  
2. Which of the following ( is a Network address translation) can be used to have one IP address that allows many users the browsing? [ ]
  - (a) Intranet
  - (b) NAT
  - (c) PAT
  - (d) Mesh
  - (e) Dynamic
  
3. Which of the following WLAN specification at 2.4 GHz allows up to 54 Mbps? [ ]
  - (a) A
  - (b) F
  - (c) G
  - (d) B
  
4. For the IOS backup which command we shall use? [ ]
  - (a) IOS Disk backup
  - (b) IOS TFTP copy
  - (c) Copy Flash TFTP
  - (d) Any of the above
  - (e) None of these
  
5. IP address 192.168.168.188.255.255.255.192 has there a place on which of the following valid IP host ranges? [ ]
  - (a) 192.168.168.129-190
  - (b) 192.168.168.129-152
  - (c) 192.168.168.129-192

- (d) 192.168.152.129-151
- (e) None of these

6. Which of the following is the protocol used by ping? [ ]

- (a) ICMP
- (b) SNMP
- (c) SDP
- (d) TCP

7. How many types of controlled access methods are there? [ ]

- (a) 3
- (b) 4
- (c) 5
- (d) 6

8. What is framing in a data link layer? [ ]

- (a) Framing is done manually
- (b) Framing is done digitally
- (c) In parts manually and digitally
- (d) Not transmitted digitally
- (e) None of the above

9. The network structure is divided into how many parts? [ ]

- (a) 1
- (b) 3
- (c) 5
- (d) 6
- (e) 2

10. What is done by VLANs? [ ]

- (a) More than one collision domain are provided on one switch.
- (b) It is the quickest port to all servers.
- (c) It is broken into the broadcast domain of the layer 2 switch network.
- (d) Any of the above
- (e) None of the above

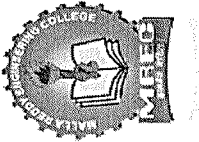
11. Class of IP address which has the most number of hosts available? [ ]

- (a) A and B
- (b) A
- (c) B and C
- (d) D
- (e) None of these

12. Which version field of IPv4 header, when the machine is using some other version of IPv4 then datagram\_\_\_\_\_ [ ]

- (a) Accepted
- (b) Discarded
- (c) Interpreted incorrectly
- (d) Interpreted

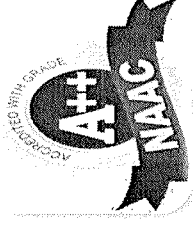
13. What is header of datagram in IPv4 \_\_\_\_\_ [ ]
- (a) 20 to 60 bytes
  - (b) 20 to 80 bytes
  - (c) 20 to 40 bytes
  - (d) 0 to 20 bytes
14. What is the responsibility of the internetwork, the network layer is \_\_\_\_\_ [ ]
- (a) Host to Server communication
  - (b) Host to User Link
  - (c) User to Host IP
  - (d) Host to Host Delivery
15. In IPv4, a When machine drops header and trailer when it receives a \_\_\_\_\_ [ ]
- (a) Frame
  - (b) Signal
  - (c) Request
  - (d) Service
16. How physical and data link layers of a network operate... [ ]
- (a) Unjointly
  - (b) Separately
  - (c) Locally
  - (d) Independently
17. Find out the OSI layer, which performs token management. [ ]
- (a) Network Layer
  - (b) Transport Layer
  - (c) Session Layer
  - (d) Presentation Layer
18. The layer one of the OSI model is [ ]
- (a) Physical layer
  - (b) Link layer
  - (c) Router layer
  - (d) Broadcast layer
19. Which of the following TCP/IP protocols is used for transferring files form one machine to another. [ ]
- (a) FTP
  - (b) SNMP
  - (c) SMTP
  - (d) RPC
20. The standard suit of protocols used by the Internet, Intranets, extranets and some other networks [ ]
- (a) TCP/IP
  - (b) Protocol
  - (c) Open system
  - (d) Internet work processor



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## Certificate Of Completion

This is to certify that Mr. /Ms. A SHASHANK bearing Roll No 20J41A1201  
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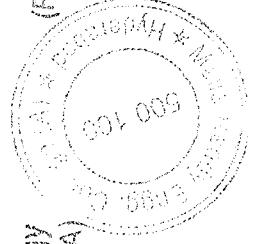
  
COORDINATOR

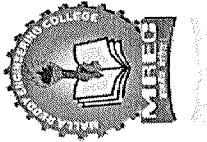
  
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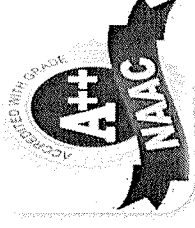




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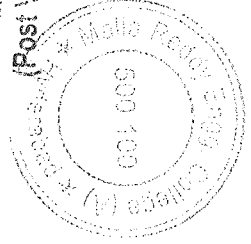
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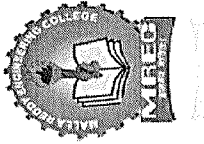
  
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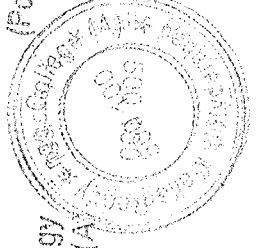
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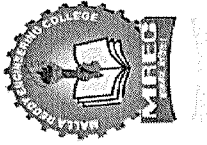
This is to certify that **Mr. /Ms. K.CHARAN RAHUL** bearing Roll No **20J41A1220** has successfully completed Certificate / Value Added Course / Workshop on **“NETWORKING”** conducted by the Department of **Information Technology, from 17-10-2022 to 22-10-2022.**

  
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successfully completed Certificate / Value Added Course / Workshop on  
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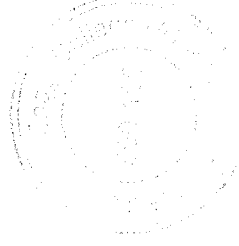
  
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Telangana State – 500100, [www.mrec.ac.in](http://www.mrec.ac.in)

## DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 22.10.2022

### Report of Value Added Course on Networking

A six days program on Networking was organized by the department of Information Technology for III years. The resource person of the program is Ms.Harika. The course involves the Introduction, Protocols and Layers of Networking. The event was coordinated by Ms.P.Swapna, Asst.Professor, IT Department from 17.10.2022 to 22.10.2022 and 64 students.

After the training programme, the students learned the following,

- The Different layers of Networking and their importance.
- The applications of different protocols.
- Addressing modes.



*[Signature]*  
Principal  
Malla Reddy Engineering College  
Maisammaguda (H), Medchal-Malkajgiri District,  
Secunderabad, Telangana State - 500100.

*[Signature]*  
HOD/IT



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## DEPARTMENT OF INFORMATION TECHNOLOGY.

Title of the Session: Networking

Department & Designation: IT / student

Date of the Session: 22/10/2022

Time:

S.No		Excellent	Very Good	Good	Average
1	The Session Objective were stated clearly and met	✓			
2.	The Workshop was well Organized	✓			
3.	The information and / or skills presented were relevant and useful for Career	✓			
4	The presenter responded to questions effectively?		✓		
5	The overall assessment of the Session	✓			
6	The session content met your Expectations	✓			

Excellent:4 Very Good:3 Good:2 Average:1

### Suggestions If any:

Good, time is not sufficient, extend this session one more week.