

## Lesson Plan

**Name of the Faculty** : Ravinder Kumar  
**Discipline** : ECE.  
**Semester** : 5<sup>th</sup>  
**Subject** : Computer Network  
**Lesson Plan Duration** : From 15 Sept. 2022 to 16 Jan. 2023  
**Work Load (Lecture / Practical) per week (in hours):** Lectures-04

Week	Theory	
	Lecture day	Topic (including assignment / test)
1 <sup>st</sup>	1	Introduction about the subject
	2	Networks Basics
	3	Concept of network- Models of network computing
	4	Networking models- Peer-to –peer Network
2 <sup>nd</sup>	5	Server Client Network - Network Services
	6	Revision
	7	Types of Computer Networks
	8	Concept of switching - Switching Techniques
3 <sup>rd</sup>	9	Switching Techniques
	10	Revision
	11	Network standards, OSI Reference Model
	12	OSI Physical layer
4 <sup>th</sup>	13	Data-link Layers & Network Layer concepts
	14	Revision
	15	Transport Layer concepts & OSI Session Layer
	16	OSI presentation Layer concepts & Application layer concepts
5 <sup>th</sup>	17	Revision
	18	Introduction to TCP/IP
	19	Concept of addressing- physical addressing
	20	IPV4 address space, Notations

Week	Theory	
	Lecture day	Topic (including assignment / test)
6 <sup>th</sup>	21	Classful Addressing, Special Addressing
	22	1 <sup>st</sup> sessional Exam
	23	1 <sup>st</sup> sessional Exam
7 <sup>th</sup>	24	Sub netting and super netting
	25	Loop back concept
	26	Network Address Translation
	27	Revision
8 <sup>th</sup>	28	IP packet Format- IPV4, IPV 6
	29	Types of Cables
	30	Type of communication Signals
	31	Wired LANs: Ethernet
9 <sup>th</sup>	32	Ethernet Specification and Standardization:
	33	10 Mbps (Traditional Ethernet), 100 Mbps (Fast Ethernet)
	34	1000 Mbps (Gigabit Ethernet), Leased lines
	35	Uses of RJ45, RJ11, BNC, SCST Connectors
10 <sup>th</sup>	36	Revision
	37	Network connectivity Devices
	38	2 <sup>nd</sup> sessional Exam
	39	2 <sup>nd</sup> sessional Exam
11 <sup>th</sup>	40	NICs
	41	Hubs
	42	Repeaters, switches
	43	Routers
12 <sup>th</sup>	44	Configuration of Routers and Switches
	45	Client/server Technology
	46	Server Management
	47	Raid management and mirroring
13 <sup>th</sup>	48	Cryptography

Week	Theory	
	Lecture day	Topic (including assignment / test)
	49	Ethical Hacking
	50	Wireless LAN, MAN Networking
14 <sup>th</sup>	51	Wi-Fi
	52	WiMax (Broadband Wireless)
	53	Li-Fi
	54	3 <sup>rd</sup> sessional Exam