

UTKALGOURAVMADHUSUDANINSTITUTE OF TECHNOLOGY, RAYAGADA
Department of Electronics & Telecommunication

**Academic Lesson Plan for 5th Semester-2026 (Winter) Subject: Data
Communication & Computer Network Lab**
Name of the teaching faculty- Reetanjali Panda, Lecturer (Computer Application)

Semester from date: 01/07/2026 To: 05/11/2026	No. of periods per week: 4 No. of weeks: 15 Total periods: 60	Progressive Assessment : 35 Marks End Term Exam.: 15 Marks Total Marks: 50 Marks
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WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1 ST	1 ST	1. Recognize the physical topology and cabling (coaxial, OFC, UTP, STP) of a network
	2 ND	1. Recognize the physical topology and cabling (coaxial, OFC, UTP, STP) of a network
	3 RD	1. Recognize the physical topology and cabling (coaxial, OFC, UTP, STP) of a network
	4 TH	1. Recognize the physical topology and cabling (coaxial, OFC, UTP, STP) of a network
2 ND	1 ST	2. Recognition and use of various types of connectors RJ-45, RJ-11, BNC and SCST
	2 ND	2. Recognition and use of various types of connectors RJ-45, RJ-11, BNC and SCST
	3 RD	2. Recognition and use of various types of connectors RJ-45, RJ-11, BNC and SCST
	4 TH	2. Recognition and use of various types of connectors RJ-45, RJ-11, BNC and SCST
3 RD	1 ST	3. Making of cross cable and straight cable
	2 ND	3. Making of cross cable and straight cable
	3 RD	3. Making of cross cable and straight cable
	4 TH	3. Making of cross cable and straight cable
4 TH	1 ST	4. Install and configure a network interface card in a workstation
	2 ND	4. Install and configure a network interface card in a workstation
	3 RD	4. Install and configure a network interface card in a workstation
	4 TH	4. Install and configure a network interface card in a workstation
5 TH	1 ST	5. Identify the IP address of a workstation and the class of the address and configure the IP Address on a workstation
	2 ND	5. Identify the IP address of a workstation and the class of the address and configure the IP Address on a workstation
	3 RD	5. Identify the IP address of a workstation and the class of the address and configure the IP Address on a workstation
	4 TH	5. Identify the IP address of a workstation and the class of the address and configure the IP Address on a workstation
6 TH	1 ST	5. Identify the IP address of a workstation and the class of the address and configure the IP Address on a workstation
	2 ND	5. Identify the IP address of a workstation and the class of the address and configure the IP

		Address on a workstation
	3RD	5. Identify the IP address of a workstation and the class of the address and configure the IP Address on a workstation
	4TH	5. Identify the IP address of a workstation and the class of the address and configure the IP Address on a workstation
7TH	1ST	7. Sharing of Hardware resources in the network.
	2ND	7. Sharing of Hardware resources in the network.
	3RD	7. Sharing of Hardware resources in the network.
	4TH	7. Sharing of Hardware resources in the network.
8TH	1ST	7. Sharing of Hardware resources in the network.
	2ND	7. Sharing of Hardware resources in the network.
	3RD	7. Sharing of Hardware resources in the network.
	4TH	7. Sharing of Hardware resources in the network.
9TH	1ST	8. Use of Netstat and its options.
	2ND	8. Use of Netstat and its options.
	3RD	8. Use of Netstat and its options.
	4TH	8. Use of Netstat and its options.
10TH	1ST	8. Use of Netstat and its options.
	2ND	8. Use of Netstat and its options.
	3RD	8. Use of Netstat and its options.
	4TH	8. Use of Netstat and its options.
11TH	1ST	9. Connectivity troubleshooting using PING, IPCONFIG
	2ND	9. Connectivity troubleshooting using PING
	3RD	9. Connectivity troubleshooting using PING
	4TH	9. Connectivity troubleshooting using PING
12TH	1ST	11. Create a network of at least 6 computers
	2ND	11. Create a network of at least 6 computers
	3RD	11. Create a network of at least 6 computers
	4TH	11. Create a network of at least 6 computers
13TH	1ST	11. Create a network of at least 6 computers
	2ND	11. Create a network of at least 6 computers
	3RD	11. Create a network of at least 6 computers
	4TH	11. Create a network of at least 6 computers
14TH	1ST	13. Study of Routing and Switching, configuring of Switch and Routers, troubleshooting of networks
	2ND	13. Study of Routing and Switching, configuring of Switch and Routers, troubleshooting of networks
	3RD	13. Study of Routing and Switching, configuring of Switch and Routers, troubleshooting of networks
	4TH	13. Study of Routing and Switching, configuring of Switch and Routers, troubleshooting of networks
15TH	1ST	13. Study of Routing and Switching, configuring of Switch and Routers, troubleshooting of networks
	2ND	13. Study of Routing and Switching, configuring of Switch and Routers, troubleshooting of networks
	3RD	13. Study of Routing and Switching, configuring of Switch and Routers, troubleshooting of networks
	4TH	13. Study of Routing and Switching, configuring of Switch and Routers, troubleshooting of net

