

Department of Eltx.& Comm. Engg.

LESSON PLAN

Program Name	Diploma in Eltx. & Comm. Engg.
Course Name	PLC & SCADA
Course Code	-
Course Co-ordinator Name	Sh. Pawan Kumar Vardhan

Evaluation Scheme

Sr.no.	Course Name	Study scheme (Hrs./Week)	Marks in Evaluation Scheme			
			Internal Assessment		External Assessment	
			Theory	Practical	Theory	Practical
1.	PLC & SCADA	4 (Th.) 2(Pr.)	30	20	100	50
Reference Books	Programmable Logic Controllers and Industrial Automation, Madhuchhanda Mitra, Process Control Instrumentation Technology, Curtis D. Johnson Process Control –Principles & Applications, Surekha Bhanot					

Course Outcomes (COs)

CO 1	To know the basics of latest controlling techniques like DCS,SCADA and Programmable Logic Controllers, their working and their programming
CO 2	To know the working and programming of DCS ,SCADA and PLC
CO 3	To Design ,Modify and troubleshoot the PLC & SCADA control circuit

Teaching Plan

Name of Topic	Proposed Date	Actual Date	Remarks
Concept of PLC	29-01-2024		
Relays based logic circuits, limitations of relays based logic circuit	30-01-2024		
Advantages of PLCs over electromagnetic relays based logic circuits	30-01-2024		
Different programming languages used in PLC,	03-02-2024		
Different programming languages used in PLC,	05-02-2024		
PLC specifications	06-02-2024		
Revision	06-02-2024		
Basic operation and principle of working of PLC	10-02-2024		
Architectural details of PLC	12-02-2024		
Input & Output Modules in PLC	13-02-2024		
Opto-isolation Circuit in PLC and its need	13-02-2024		
Memory structures in PLC	17-02-2024		
HMI (Human Machine Interface) used in PLC system	19-02-2024		
Power supply requirements in PLC	20-02-2024		
Revision	20-02-2024		
Revision	26-02-2024		
Addressing in PLC: I/O Address	27-02-2024		
Basic instructions: Examine ON, Examine OFF, Latch/Unlatch, Output Energize, Hold ON	27-02-2024		
Timer instructions: On delay timer, Off delay timer	02-03-2024		

Timer instructions: retentive/non-retentive timers, resetting of timers	04-03-2024		
Counter instructions: Up Counter, Down Counter, resetting of counters	05-03-2024		
Counter instructions: Up Counter, Down Counter, resetting of counters	05-03-2024		
Sequencers	09-03-2024		
Sequencers	11-03-2024		
Comparison instructions like equal, not equal, greater, greater than equal, less than, less than equal	12-03-2024		
Comparison instructions like equal, not equal, greater, greater than equal, less than, less than equal	12-03-2024		
Introduction to Ladder Logic programming	16-03-2024		
Ladder logic programming examples based on basic instructions	18-03-2024		
timer and counter instructions	19-03-2024		
Simple Applications of PLCs: Bottle filling Process	19-03-2024		
Class Test -I	23-03-2024		
Traffic Light Control:	26-03-2024		
Material handling	26-03-2024		
Elevator	30-03-2024		
Oven Control	1-04-2024		
Stirred tank reactor (Process Control)	2-04-2024		
Stirred tank reactor (Process Control)	2-04-2024		
Forward/reverse control of motor using PLC	6-04-2024		
Forward/reverse control of motor using PLC	8-04-2024		
Revision	09-04-2024		
Introduction & History of DCS	09-04-2024		
Hierarchical Architecture of DCS	13-04-2024		
Hierarchical Architecture of DCS	15-04-2024		
System Elements of DCS(Field Station, Intermediate Station and Central Computer Station)	16-04-2024		
System Elements of DCS(Field Station, Intermediate Station and Central Computer Station)	16-04-2024		
Class Test -II	20-04-2024		
Advantages and Disadvantages of DCS	22-04-2024		
Advantages and Disadvantages of DCS	23-04-2024		
Definition of SCADA	23-04-2024		
Major elements of SCADA	27-04-2024		
Major elements of SCADA	29-04-2024		
Advantages and Disadvantages of SCADA	30-04-2024		
Advantages and Disadvantages of SCADA	30-04-2024		
Application areas of SCADA	4-05-2024		
Application areas of SCADA	6-05-2024		
Comparison of PLC	7-05-2024		
Comparison of PLC	7-05-2024		
Revision	11-05-2024		
Revision	13-05-2024		
Revision	14-05-2024		
Revision	14-05-2024		
Revision	18-05-2024		
Revision	20-05-2024		
Revision	21-05-2024		
Revision	21-05-2024		
Revision	25-05-2024		

Assignments

Assignment Serial	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
A-1	Unit -I,II,	14-03-2024		
A-2	Unit- III ,IV	01-05-2024		

House Test/Class Test

Name of test	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
Class Test-I	30 % of syllabus	23-03-2024		
Class Test-II	next 30 % of syllabus	18-04-2024		
House Test	80% of syllabus	3 rd week of May		

Lab Plan

Name of Practical	Proposed Date		Actual Date		Remarks
	G-I	G-II	G-I	G-II	
Develop a ladder logic Program for Elevator.	2-02-2024	30-01-2024			
Develop a ladder logic Program for Oven Control	9-02-2024	6-02-2024			
Develop a ladder logic Program for Bottle Filling	16-02-2024	13-02-2024			
Develop a ladder logic Program for Stirrer Tank Control	23-02-2024	20-02-2024			
Develop a ladder logic Program for Stirrer Tank Control	1-03-2024	27-02-2024			
Develop a ladder logic Program for Switching of Lights.	15-03-2024	5-03-2024			
Develop a ladder logic Program for Switching of Lights	22-03-2024	12-03-2024			
Study of basic SCADA system. Study of basic DCS system	29-03-2024	19-03-2024			
Study of basic SCADA system. Study of basic DCS system	16-02-2024	26-03-2024			
Revision	5-04-2024	2-04-2024			
Revision	12-04-2024	9-04-2024			
Revision	19-04-2024	16-04-2024			
Revision	26-04-2024	23-04-2024			
Revision	3-05-2024	30-04-2024			
	10-05-2024	7-05-2024			
	17-05-2024	14-05-2024			
	24-05-2024	21-05-2024			
	----	28-05-2024			



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LESSON PLAN

Program Name	ECE
Course/Subject Name	COMPUTER NETWORKS
Course/Subject Coordinator Name	ANIL KUMAR

Evaluation scheme

S.No.	Subject Name	Study scheme (Hrs/Week) (Lab)	Marks in evaluation scheme			
			Internal Assessment		External Assessment	
			Theory	Practical	Theory	Practical
1.	COMPUTER NETWORKS	TH [4] + 2 (Lab)	50	50	50	50
Reference books			1. Computer Networks by Tanenbaum, Prentice Hall of India, New Delhi 2. Data Communications and Networking by Forouzan. (Edition 2 nd and 4 th), Tata McGraw Hill Education Pvt Ltd, New Delhi 3. Data and Computer Communication by William Stallings, Pearson Education, New Delhi			

Course Outcomes: After the completion of the course the student will be able to

CO1	Describe & Identify Network Basics (Networks Topologies etc)
CO2	Differentiate between Reference Models (OSI, TCP)
CO3	Describe the Networking
CO4	Define Cable & Connectors
CO5	Describe & Identifying Use & Applications of Network Connectivity (HUB, REPEATERS Etc.)
CO6	Describe use o Network Trouble Shooting Techniques
CO7	Describe application & Use of Wireless Networking

Teaching Plan: $[14 \times 4] = 56$, (Theory)

Lecture No.	Topic Covered	Proposed date	Actual date	Remarks
1	1 Network Basics What is Network	29/1/24		
2	Peer-to Peer Network	30/1/24		
3	Server Client Network	31/01/24		
4	LAN, MAN&WAN	2/2/24		
5	Network Services	5/2/24		
6	Network Services	6/2/24		
7	Topologies	7/2/24		
8	Topologies	9/2/24		
9	Switching Techniques	12/2/24		

10	Revision (Server Client Network)	13/2/24		
11	Revision (Network Services)	14/2/24		
12	Revision (Network Services)	16/2/24		
13	2 Reference Models OSI Reference mode	19/2/24		
14	OSI Reference model structure	20/2/24		
15	OSI Reference model functioning of layers	21/2/24		
16	Structure of TCP/IP reference model structure	22/2/24		
17	TCP/IP Network Modes	26/2/24		
18	Reference Model Standards	27/2/24		
19	Compression OSI/TCP/IP Model	28/2/24		
20	Revision TCP/IP Model	1/3/24		
21	Revision(Functioning of OSI Reference Model Layers)	4/3/24		
22	3 Internetworking Concept of Physical & Logical Addressing	5/3/24		
23	Different Classics of IP Addressing	6/3/24		
24	Special IP Address	11/3/24		
25	Sub netting	12/3/24		
26	Super Netting	13/3/24		
27	Loop back concept	15/3/24		
28	IPV4 Packet Format	18/3/24		
29	IPV6 Packet Format	19/3/24		
30	Configuring IPV4 & Configuring IPV6	20/3/24		
31	Revision (Configuring IPV6 & IPV4 packet format)	22/3/24		
32	4 Cable & Connectors Types of Cables (Coaxial Twisted)	26/3/24		
33	Shielded & Unshielded Pair of cables	27/3/24		
34	Straight Wire Cables, Crossover Cables	01/4/24		
35	Fast Ethernet, Gigabit Ethernet	2/4/24		
36	Leased Lines	3/4/24		
37	Use of RJ45, RJ11, BNC, SCST	5/4/24		
38	Revision(Ethernet specification & Standardization)	8/4/24		
39	Revision(Leased Lnes)	9/4/24		
40	5 Network Connectivity Network Connectivity Devices	10/4/24		
41	NIC,s	12/4/24		
42	HUB,s	16/4/24		
43	Repeaters	19/4/24		
44	Switches	22/4/24		
45	Routers & Routing Protocols	23/4/24		
46	Revision(Network Connectivity Devices)	24/4/24		
47	6 Network Troubleshooting Techniques Trouble shooting Process	26/4/24		
48	Trouble Shooting tools (PING, IPCONFIG ETC.)	29/4/24		
49	Wire sharp/Sniffer/Pcop	30/4/24		
50	NETSTAT, TRACEROOT	01/5/24		

51	Revision(IPCONFIG)	3/5/24		
52	7 Wireless networking Basics of wireless	6/5/24		
53	Wireless MAN	7/5/24		
54	Networking ,Wireless LAN	8/5/24		
55	Wi-Fi, WiMax ,Li-Fi	13/5/24		
56	Revision (Trouble shooting Process)	14/5/24 to 24/5/24		

Assignments:

Assignment serial	Contents of syllabus covered	Proposed date	Actual date	Remarks
A-1		28/2/24		
A-2		27/3/24		
A-3		—		

House Test/Class Test:

House/Class Test	Contents of syllabus covered	Proposed date	Actual date	Remarks
CT-I	30% of the syllabus	18/03/24		
CT-II	Next 30% of the syllabus	19/04/24		
House Test	80% of the syllabus	17/5/24		

Lab Plan: $[14 \times 2 = 28 (G_1)] [14 \times 2 = 28 (G_2)]$

Exp. No.	Name of experiment	Proposed & Actual date		Remarks
		G-1	G-2	
1	Recognize the physical topology and cabling (coaxial, OFC, UTP; STP) of a network.	31/7/24	2/2/24	
2	Recognition and use of various types of connectors RJ-45, RJ-11, BNC and SCST To verify laws of refraction (Snell's law) using a glass slab.	14/2/24	16/2/24	
3	Making of cross cable and straight cable. To determine focal length and magnifying power of a convex lens.	28/2/24	01/3/24	

4	Install and configure a network interface card in a workstation.	$\frac{13}{24}$	$\frac{22}{24}$		
5	Identify the IP address of a workstation and the class of the address and configure the IP Address on a workstation	$\frac{27}{24}$	$\frac{12}{24}$		
6	Study and demonstration of sub netting of IP address	$\frac{10}{24}$	$\frac{26}{24}$		
7	Use of Net stat and its options.	$\frac{015}{24}$	$\frac{17}{24}$		
8	Connectivity troubleshooting using PING, IPCONFIG, IFCONFIG	$\frac{15}{24}$	$\frac{24}{24}$		



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(Anil Kumar)



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Department of Eltx. & Comm. Engg.

LESSON PLAN

Program Name	Diploma in Eltx. & Comm. Engg.
Course Name	Wireless & Mobile Communication
Course Code	-
Course Coordinator Name	Sh. Navjot Singh Suryal

Evaluation Scheme

Sr.no.	Course Name	Study scheme (Hrs./Week)	Marks in Evaluation Scheme			
			Internal Assessment		External Assessment	
			Theory	Practical	Theory	Practical
1.	W&M.C.	4 (Th.) 2(Pr.)	30	20	100	50
Reference Books		Wireless Communications, Principles and Practice, by Theodore S. Rappaport.				
		Wireless Communications by Signal, Tata McGraw Hill Education Pvt Ltd, New Delhi				
		Wireless Communications and Networking, by William Stallings				

Course Outcomes (COs)

CO 1	Students will learn about Advantages of wireless communication, Propagation considerations
CO 2	Students will learn about Cellular Concept, Multiple Access Techniques for Wireless Communication
CO 3	Students will learn about Mobile Communication Systems, 3G & 4G, Global Systems for Mobile Communication

Teaching Plan

Name of Topic	Proposed Date	Actual Date	Remarks
Advantages of wireless communication	29-01-2024		
Electromagnetic waves	30-01-2024		
Frequency Spectrum used	01-02-2024		
Cellular Network Systems	02-02-2024		
Block Diagram of Cell phone	05-02-2024		
Propagation considerations Range	06-02-2024		
Propagation considerations Atmospheric Effect	08-02-2024		
Propagation considerations Geographic Effect	09-02-2024		
Propagation considerations Fading	12-02-2024		
Propagation considerations Doppler Effect	13-02-2024		
Propagation considerations Multipath Effect	15-02-2024		
Cellular Concept	16-02-2024		
Cell area	19-02-2024		
Cell Site Structure	20-02-2024		
Capacity of cell	22-02-2024		
Capacity of cell	23-02-2024		
Frequency Response (ARFCN Concepts)	26-02-2024		
Interference (Co-channel, Adjacent channel)	27-02-2024		
Power Control for reducing Interference	29-02-2024		
Fundamentals of cellular network planning	01-03-2024		
Coverage planning	04-03-2024		

Capacity planning	05-03-2024		
Multiple Access Techniques for Wireless Communication Introduction to Multiple Access.	07-03-2024		
Frequency Division Multiple Access (FDMA)	11-03-2024		
Introduction of CDMA System Time Division Multiple Access (TDMA)	12-03-2024		
Code Division Multiple Access (CDMA)	14-03-2024		
Code Division Multiple Access (CDMA)	15-03-2024		
Code Division Multiple Access (CDMA), WCDMA	18-03-2024		
Spread Spectrum Techniques	19-03-2024		
Introduction of CDMA System	21-03-2024		
1 st Class Test	22-03-2024		
Introduction of CDMA System	26-03-2024		
Introduction of CDMA System	28-03-2024		
Mobile Communication Systems	01-04-2024		
Mobile Communication Systems	02-04-2024		
Introduction of Global Systems for Mobile Communication	04-04-2024		
Introduction of Global Systems for Mobile Communication	05-04-2024		
GSM architecture	08-04-2024		
GSM architecture	09-04-2024		
GSM architecture	12-04-2024		
comparison of CDMA and GSM Systems	16-04-2024		
comparison of CDMA and GSM Systems	18-04-2024		
2 nd Class Test	19-04-2024		
Introduction of GPRS and EDGE	22-04-2024		
Introduction of GPRS and EDGE	23-04-2024		
Introduction of GPRS and EDGE	25-04-2024		
Introduction to 3G & 4G	26-04-2024		
Introduction to 3G & 4G	29-04-2024		
Introduction to Architecture and Features of UMTS	30-04-2024		
Introduction to Architecture and Features of UMTS	02-05-2024		
HSPA (High Speed Packet Access)	03-05-2024		
HSPA (High Speed Packet Access)	06-05-2024		
4G/LTE Architecture	07-05-2024		
4G/LTE Architecture	09-05-2024		
Revision	13-05-2024		
Revision	14-05-2024		
Revision	16-05-2024		
Revision	17-05-2024		
Revision	20-05-2024		
Revision	21-05-2024		
Revision	24-05-2024		

Assignments

Assignment Serial	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
A-1	Units I,II,III	12-03-2024		
A-2	Unit IV,V	12-05-2024		

House Test/Class Test

Name of test	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
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Class Test-I	30 % of syllabus	3 rd week of March		
Class Test-II	next 30 % of syllabus	3 rd Week of April		
House Test	80% of syllabus	3 rd week of May		

Lab Plan

Name of Practical	Proposed Date		Actual Date		Remarks
	G-I	G-II	G-I	G-II	
Study the features, specification and working of cellular mobile	30-01-2024	01-02-2024			
Study the features, specification and working of cellular mobile	06-02-2024	08-02-2024			
Measurement of signal strength at various points from a transmitting antenna/cordless phone	13-02-2024	15-02-2024			
Measurement of signal strength at various points from a transmitting antenna/cordless phone	20-02-2024	22-02-2024			
Demonstration of Base Trans Receiver(BTS) with nearby cellular tower	27-02-2024	29-02-2024			
	05-03-2024	07-03-2024			
Observing call processing of GSM trainer Kit.	12-03-2024	14-03-2024			
Observing call processing of GSM trainer Kit.	19-03-2024	21-03-2024			
Practice of setting GPRS on Mobile phone	26-03-2024	28-03-2024			
Practice of setting GPRS on Mobile phone	02-04-2024	04-04-2024			
Practice of setting GPRS on Mobile phone	09-04-2024	18-04-2024			
Observing call processing of CDMA trainer kit	16-04-2024	25-04-2024			
Observing call processing of CDMA trainer kit	23-04-2024	02-05-2024			
Revision	30-04-2024	09-05-2024			
Revision	07-05-2024	16-05-2024			
Revision	14-05-2024				
Revision	21-05-2024				



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(Navjot Singh SURYAL)

Department of Eltx. & Comm. Engg.

LESSON PLAN

Program Name	Diploma in Eltx&Comm. Engg.
Course Name	Practice in Communication Skills
Course Code	-
Course Co-ordinator Name	Renu Patial

Evaluation Scheme

Sr. no.	CourseName	Study scheme (Hrs./Week)	Marks in Evaluation Scheme			
			Internal Assessment		External Assessment	
			Theory	Practical	Theory	Practical
1.	Practice in Communication Skills	2(Pr.)	--	50	--	50
Reference Books	(i) Communication Skills by KK Dhir					
	(ii) General English by Lucent					
	(iii) Self Made Notes & Internet					

Course Outcomes (COs)


CO 1	They will have enriched vocabulary & will be able to understand English Language
CO 2	Student's Thinking will be improved, & will be able to speak in English
CO 3	They will improve their Reading, Writing, Listening & Speaking Skills

Teaching Plan

Sr. no.	Name of Practical	Proposed Date	Actual Date	Remarks
1.	Exercise on Phonetics 1.1 Identification of English Phonetics 1.2 Stress and Intonation 1.3 Speaking Exercise with emphasis on voice modulation (reading & extempore)	G1: 31/01/24,07/02/24 & 14/02/24 G2: 29/01/24& 05/02/24		
2.	Group Discussion	G1:21/02/24 G2: 12/02/24		
3.	Exercise on 3.1 Self assessment using tools like SWOT analysis 3.2 listening Skills	G1: 28/02/24 &06/03/24 G2: 19/02/24& 26/02/24		
4.	Internet Communication and correspondence 4.1 Resume Writing 4.2 Covering Letter 4.3 Agenda & Minutes of Meeting 4.4 Business Correspondence	G1: 13/03/24,20/03/24& 27/03/24 G2:04/03/24,11/03/24&18 /03/24		

5.	Exercise on 5.1 Body language and dress sense 5.2 Etiquettes and mannerism in difficult situations like business meetings, table manners & telephonic Etiquettes 5.3 Manners related to opposite gender 5.4 Cross-Cultural Communication	G1: 03/04/24, 10/04/24 & 24/04/24 G2: 01/04/24, 08/04/24, 22/04/24 & 29/04/24		
6.	Mock Interview	G1: 01/05/24 & 15/05/24 G2: 06/05/24 & 13/05/24		
7.	Role Play For effective Communication	G1: 22/05/24 G2: 20/05/24		


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Department of Eltx. & Comm. Engg.

LESSON PLAN

Program Name	Diploma in Eltx. & Comm. Engg.
Course Name	Microcontrollers and embedded Systems
Course Code	-
Course Co-ordinator Name	Aradhana

Evaluation Scheme

Sr. no.	CourseName	Study scheme (Hrs./Week)	Marks in Evaluation Scheme			
			Internal Assessment		External Assessment	
			Theory	Practical	Theory	Practical
1.	Microcontroller and Embedded System	4 (Th.) 2(Pr.)	30	20	100	50
Reference Books	(i) Microcontroller and Embedded System By M.A mazidi					
	(ii) Microcontroller and Embedded System By Ramesh Gaonkar					

Course Outcomes (COs)

CO 1	To Understand the basics of Microcontroller and Embedded systems
CO 2	Learn the Assembly Language Programming
CO 3	To understand and learn the (LCD, A/D etc.) interfacing with microcontroller
CO 4	Learn about Arduino
CO 5	Learn about various applications of Microcontrollers in Communication System.

Teaching Plan

Sr. No.	Name of Topic	Proposed Date	Actual Date	Remarks
1	Introduction of 8051 Microcontroller	29-01-2024		
2	Introduction of 8051 Microcontroller (history, difference between microcontroller & microprocessor)	31-01-2024		
3	Architecture of 8051 Microcontroller	01-02-2024		
4	Architecture of 8051 Microcontroller	03-02-2024		
5	Pin details	05-02-2024		
6	Pin details	07-02-2024		
7	I/O Port structure	08-02-2024		
8	I/O Port structure	12-02-2024		
9	Memory Organization	14-02-2024		
10	Memory Organization	15-02-2024		
11	Special Function Registers (SFRs)	17-02-2024		
12	Special Function Registers (SFRs)	19-02-2024		
13	External Memory	21-02-2024		
14	External Memory	22-02-2024		
15	2. Instruction types	26-02-2024		
16	Instruction types	28-02-2024		
17	Instruction set of 8051	29-02-2024		
18	Instruction set of 8051	02-03-2024		
19	Instruction set of 8051	04-03-2024		
20	Instruction set of 8051	06-03-2024		
21	Addressing modes	07-03-2024		
22	Addressing modes	11-03-2024		
23	Addressing modes	13-03-2024		
24	Assembler directives	14-03-2024		
25	Class Test-1	16-03-2024		
26	Assembler operation	18-03-2024		

27	Assembler operation	20-03-2024		
28	3. Tim̄r operation	21-03-2024		
29	Timer operation	23-03-2024		
30	Timer operation	27-03-2024		
31	Serial Port operation	28-03-2024		
32	Serial Port operation	30-03-2024		
33	Serial Port operation	01-04-2024		
34	Interrupts	03-04-2024		
35	Interrupts	04-04-2024		
36	4. Design and Interface - keypad interface	06-04-2024		
37	keypad interface	08-04-2024		
38	7- segment interface	10-04-2024		
39	7- segment interface	18-04-2024		
40	Class Test -2	20-04-2024		
41	LCD interface	22-04-2024		
42	Stepper motor	24-04-2024		
43	A/D interface	25-04-2024		
44	D/A interface	27-04-2024		
45	RTC interface	29-04-2024		
46	5. Block diagram and pin details: ARDUINO	01-05-2024		
47	Block diagram and pin details: ARDUINO	02-05-2024		
48	Block diagram and pin details: ARDUINO	04-05-2024		
49	Block diagram and pin details: ARDUINO	06-05-2024		
50	6. Application of Micro controllers in Communication System	08-05-2024		
51	Application of Micro controllers in Communication System	09-05-2024		
52	Application of Micro controllers in Communication System	13-05-2024		
53	Revision	15-05-2024		
54	Revision	16-05-2024		
55	Revision	18-05-2024		
56	Revision	20-05-2024		
57	Revision	22-05-2024		
58	Revision	25-05-2024		

Assignments

Assignment Serial	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
A-1	Unit I, II	11-03-2024		
A-2	Unit III, IV	10-04-2024		

House Test/Class Test


Name of test	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
Class Test-I	Unit I, II	3 rd week of march		
Class Test-II	Unit III&IV	3 rd week of april		
House Test	Unit I, II, III, IV & V	3 rd week of may		

Lab Plan

Name of Practical	Proposed Date		Actual Date		Remarks
	G-I	G-II	G-I	G-II	
Demonstration of Micro-controller Kit	1-02-2024	31-01-2024			
Assembly Language Programming	8-02-2024	7-02-2024			

Assembly Language Programming	15-02-2024	21-02-2024			
C Language Programming – (PC Based)	22-02-2024	28-02-2024			
To study the LCD Interface	29-02-2024	6-03-2024			
To study the LCD Interface	7-03-2024	13-03-2024			
To study the interface of A/D converter	14-03-2024	20-03-2024			
To study the interface of D/A converter	21-03-2024	27-03-2024			
To study the interface of D/A converter	28-03-2024	03-04-2024			
To study the interface of controller with sensors	4-04-2024	10-04-2024			
To study the interface of controller with sensors	18-04-2024	24-04-2024			
Revision of practicals	25-04-2024	01-05-2024			
Revision of practicals	02-05-2024	----			
Revision of practicals	09-05-2024	----			
Revision of practicals	16-05-2024	----			


(Signature of Teacher)


(Signature of HOD)