

LESSON PLAN

Program Name	ELTX & COMM ENGG. / 5 th Sem.
Course/Subject Name	Optical Communication and Networking
Course/Subject Code	ECPE305 (II)
Course/Subject Coordinator Name	Aman Kumar Sood

Evaluation scheme

S.No.	Subject Name	Study scheme (Hrs/Week)	Marks in evaluation scheme			
			Internal Assessment		External Assessment	
			Theory	Practical	Theory	Practical
1.	OC&N	TH [3+1(DCS)]	40	60	60	60
Reference books			1. Optical fiber Communication by John M Senior, Prentice Hall of India, New Delhi 2. Optical fiber Communication by J. Gower, Prentice Hall of India, New Delhi 3. Optical fiber Communication by Gerd Keiser, McGraw Hill International Editions 4. Optical Communications - Components and Systems by JH Franz and VK Jain, Narosa Publishing House, New Delhi 5. Optical Fiber Communication by Sangar and Sahdev, Uneek Publications, Jalandhar			

CO1

Identify, formulate and solve optical communication networks related problems

using efficient technical approaches.

CO2

Design optical networks as well as to interpret statistical and physical data.

CO3

Design and implement WDM networks.

CO4

Apply the knowledge to control and manage the functions of optical networks.

CO5

Recognize the network survivability by various protection schemes

Teaching Plan: (14×4=56)

Lecture No.	Topic Covered	Proposed date	Actual Date	Remarks
1	Introduction: Historical perspective	06/08/2026		
2	Basic optical fibre communication system	10/08/2026		
3	Basic optical fibre communication system	11/08/2026		
4	Advantages and disadvantages of optical communication	12/08/2026		
5	Applications of fiber optic communication	13/08/2026		
6	Electromagnetic spectrum	17/08/2026		
7	Optical frequency range	18/08/2026		
8	Principle of light penetration, reflection, concept of critical angle.	19/08/2026		
9	Optical Fibers and Cables: Constructional details of various optical fibers	20/08/2026		
10	Optical Fibers and Cables: Constructional details of various optical fibers	24/08/2026		
11	Multimode and mono-mode fibers	25/08/2026		
12	Step index and graded index fibers	26/08/2026		
13	Numerical aperture	27/08/2026		
14	Acceptance angle	31/08/2026		
15	Types of Optical fiber cables	01/09/2026		
16	Optical Fiber cable connectors and Splicing techniques (Mechanical, fusion).	02/09/2026		
17	Losses in Optical Fiber: Absorption losses	03/09/2026		
18	Scattering losses	07/09/2026		
19	Radiation losses	08/09/2026		
20	Connector losses , Bending losses.	09/09/2026		
21	CT-1	10/09/2026		
22	Dispersion: Types of dispersion	14/09/2026		
23	Dispersion: Types of dispersion	15/09/2026		
24	Testing of losses using OTDR (Optical Time Domain Reflectometer).	16/09/2026		
25	Optical Sources: Characteristics of light used in optical communication	17/09/2026		
26	Principle of operation of LED	21/09/2026		
27	Different types of LED structures used and their brief description	22/09/2026		
28	Different types of LED structures used and their brief description	23/09/2026		

29	Injection laser diode, principle of operation	24/09/2026		
30	Different injection laser diodes	28/09/2026		
31	Different injection laser diodes	29/09/2026		
32	Comparison of LED and ILD.	30/09/2026		
33	Optical Detectors: Characteristics of photo detectors used in optical communication	01/10/2026		
34	Characteristics of photo detectors used in optical communication	05/10/2026		
35	PN photodiode	06/10/2026		
36	PIN photodiode	07/10/2026		
37	Avalanche photodiode(APD).	08/10/2026		
38	CT-II	12/10/2026		
39	Optical Amplifiers: semiconductor & fiber optical amplifiers Functional types	13/10/2026		
40	Semiconductor & fiber optical amplifiers Functional types	14/10/2026		
41	Principal of operation of SOA	15/10/2026		
42	Types of SOA	19/10/2026		
43	FPA, TWA,	21/10/2026		
44	SOA applications ,advantages, Drawbacks	22/10/2026		
45	SOA applications ,advantages, Drawbacks	27/10/2026		
46	Fibre Optical Amplifiers: EDFAs, Raman amplifiers.	28/10/2026		
47	Fibre Optical Amplifiers: EDFAs, Raman amplifiers.	29/10/2026		
48	Optical Fiber System networking and Application: Role of OFC in Fiber to the x (FTTx),	02/11/2026		
49	HOUSE TEST	03/11/2026 to 05/11/2026		
50	Optical Fiber System networking and Application: NGN (Next Generation Network)	10/11/2026		
51	NFS (Need for Spectrum)	11/11/2026		
52	DCS	12/11/2026		
53	IoT (Internet of Things).	16/11/2026		
54	IoI (Internet of Things).	17/11/2026		
55	REVISION	18/11/2026		
56	REVISION	19/11/2026		
57	REVISION	23/11/2026		
58	REVISION	25/11/2026		
59	REVISION	26/11/2026		

Assignment serial	Contents of syllabus covered	Proposed date	Actual date	Remarks
A-1	Introduction to Optical fiber Communication Optical Fibers and Cables	07-09-2026		
A-2	Losses in Optical Fiber, Optical detectors, Optical Amplifiers	29-10-2026		

House Test/Class Test:

House/Class Test	Contents of syllabus covered	Proposed date	Actual date	Remarks
CT-I	30% of the syllabus	As per Academic Calender		
CT-II	Next 30% of the syllabus	As per Academic Calender		
House Test	80% of the syllabus	As per Academic Calender		

Lab Plan : (16*2 =32+16=48)

Practical Outcomes (PrOs).

The practical in this section are PrOs (i.e. sub-components of the COs) to be developed and assessed in the student for the attainment of the competency.

Experiment No.	Name of Experiment	Proposed date	Actual Date	Remarks
1	Setting up of fiber analog link	G1 07/08/2026 G2 11/08/2026	G1 G2	
2	Setting up of optic digital link	G1 21/08/2026 G2 25/08/2026	G1 G2	
3	Measurement of bending losses in optical fibers	G1 11/09/2026 G2 01/09/2026	G1 G2	
4	To measure and calculate numerical aperture of optical fiber	G1 25/09/2026 G2 15/09/2026	G1 G2	
5	To observe characteristics of LED source and detector	G1 09/10/2026 G2 29/09/2026	G1 G2	
6	To demonstrate the splicing of optical fiber	G1 23/09/2026 G2 06/10/2026	G1 G2	
7	Demonstration of various components and tools used in optical fiber communication networking.	G1 06/11/2026 G2 03/11/2026	G1 G2	

(Signature of Teacher)

(Aman Kr. Sood)

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Department of Eltx. & Comm. Engg

LESSON PLAN

Program Name	Diploma in Eltx. & Communication Engg. / 5 th Sem.
Course/Subject Name	Maintenance of Computer System
Course/Subject Code	ECPE 301 (III)
Course/Subject Co-ordinator Name	Nishi Verma

Evaluation Scheme

Sr. no.	Subject Name	Study scheme (Hrs/Week)	Marks in Evaluation Scheme			
			Internal Assessment		External Assessment	
			Theory	Practical	Theory	Practical
1.	Maintenance of Computer System	Th:- 4hr (Th:-3hr DCS:-1hr.)	40	40	60	60
Reference Books		PC Organisation by S. Chowdhury, Dhanpat Rai & Sons, Delhi				
		IBM PC Colons by GovindaRajalu, Tata McGraw Hill Education Pvt Ltd, New Delhi				
		Computers by P.Norton				
		Troubleshooting and maintenance of Computers by prof. S.P.S. Saini Vayu Education of India, New Delhi				

Course Outcomes (COs)

CO 1	Assess customer's requirement of a computer system with required specification.
CO 2	Identify the principal components of a computer system.
CO 3	Able to perform system installation and peripheral configurations.
CO4	Prioritizing activities and organizing resources to meet desired outcome

Teaching Plan

S.N	Name of Topic	Proposed Date	Actual Date	Remarks
1	Unit : 1 - Mother Board	07-08-2026		
2	Mother Board: Introduction to different type of mother boards	10-08-2026		
3	Types of mother boards	12-08-2026		
4	DCS	14-08-2026		
5	Single Board Based System	17-08-2026		
6	Block diagram of motherboard	19-08-2026		
7	Installation of Computer System	21-08-2026		
8	DCS	22-08-2026		
9	Unit : 2 - Buses and Ports- Different type of Buses	24-08-2026		
10	PCI, SCSI and Serial	26-08-2026		
11	Parallel ports (COM ports)	28-08-2026		
12	DCS	29-08-2026		
13	Ports COM 1, LPT1, USB, RS 232 C	31-08-2026		
14	Ports COM 1, LPT1, USB, RS 232 C	02-09-2026		
15	Use of computer for instrumentation	05-09-2026		
16	DCS	07-09-2026		
17	Unit : 3 – Memory- Principle and construction of Hard Disk Drive (HDD).	09-09-2026		
18	Class Test-I	11-09-2026		
19	HDD	14-09-2026		
20	Floppy Disk Controller & Hard Disk Controller.	16-09-2026		
21	DCS	18-09-2026		
22	Pen Drives	19-09-2026		
23	common faults with hard disk drive and floppy disk drive	21-09-2026		

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
LESSON PLAN

Program Name	Diploma in Electronics & Communication Engg. / 5 th Sem.
Course/Subject Name	MAINTENANCE OF COMPUTER SYSTEM Lab
Course/Subject Code	ECPE303
Course/Subject Co-ordinator Name	Raman Kumar

Evaluation Scheme:

Sr. No.	Subject Name	Study scheme (Hrs/Week)	Marks in Evaluation Scheme			
			Internal Assessment		External Assessment	
			Theory	Practical	Theory	Practical
1.	MAINTENANCE OF COMPUTER SYSTEM Lab	Practical- 3 hrs./week	-	40	-	60
Reference Books						

Lab Plan:

Sr. No.	Name of Practical	Proposed Date		Actual Date		Remarks
		G1	G2	G1	G2	
1	Operation, Maintenance, Installation and Testing : Monitors (LCD and LED)	12-08-26	14-08-26			
2	Operation, Maintenance, Installation and Testing : HDD, Partitioning and Formatting	19-08-26	21-08-26			
3	Operation, Maintenance, Installation and Testing : Laser Printer	02-09-26	11-09-26			
4	Operation, Maintenance, Installation and Testing : Mother board based on latest microprocessor and chipset CMOS Set up.	19-09-26	18-09-26			
5	Operation, Maintenance, Installation and Testing : DVD-ROM/DVD Writer	23-09-26	25-09-26			
6	Operation, Maintenance, Installation and Testing : Connectors and Cables	07-10-26	09-10-26			
7	Operation, Maintenance, Installation and Testing : MODEM/ROUTER/SWITCH	14-10-26	16-10-26			
8	Installation of any operating system.	21-10-26	23-10-26			
9	Establish LAN, WLAN, using Networking Devices	28-10-26	30-10-26			
10	Study of LAPTOP, Smart Phone	04-11-26	13-11-26			


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Department of Eltx. & Comm. Engg**LESSON PLAN**

Program Name	Diploma in Eltx. & Communication Engg. / 5 th Sem.
Course/Subject Name	Mobile and Wireless Communication
Course/Subject Code	ECPC305 & ECPC307
Course/Subject Co-ordinator Name	Nishi Verma

Evaluation Scheme

Sr. no.	Subject Name	Study scheme (Hrs/Week)	Marks in Evaluation Scheme			
			Internal Assessment		External Assessment	
			Theory	Practical	Theory	Practical
1.	Mobile and Wireless Communication	Th:- 4hr (Th:-3hr DCS:-1hr.) Pr:- 2hr	40	40	60	60
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	To know the evolution of Mobile communication and cell concept to improve capacity of the system.
CO 2	To know the fading mechanism and types of fading and effect of fading on Mobile communication.
CO 3	To know the role of equalization in Mobile communication and to study different types of Equalizers and Diversity techniques.
CO4	To know the types of channel coding techniques, data transmission modes and services of CDMA.

Teaching Plan

S.N	Name of Topic	Proposed Date	Actual Date	Remarks
1	Unit : 1 - Overview of Cellular Systems.	06-08-2026		
2	Overview of Cellular Systems	10-08-2026		
3	Evolution 2G	11-08-2026		
4	DCS	12-08-2026		
5	Evolution 3G	13-08-2026		
6	Evolution 4G	17-08-2026		
7	Evolution 5G	18-08-2026		
8	DCS	19-08-2026		
9	Cellular Concepts	20-08-2026		
10	Frequency reuse	24-08-2026		
11	Interference in Cellular Systems	25-08-2026		
12	DCS	26-08-2026		
13	Co-channel Interference	27-08-2026		
14	Adjacent channel Interference	31-08-2026		
15	Cellular network planning	01-09-2026		
16	DCS	02-09-2026		
17	Unit : 2 - Wireless propagation	03-09-2026		
18	Wireless propagation	07-09-2026		
19	Link budget	08-09-2026		
20	DCS	09-09-2026		
21	Class Test-1	10-09-2026		
22	Free-space path loss	14-09-2026		
23	Free-space path loss	15-09-2026		
24	Noise figure of receiver	16-09-2026		

25	DCS	17-09-2026		
26	Noise figure of receiver	21-09-2026		
27	Multipath fading	22-09-2026		
28	Multipath fading	23-09-2026		
29	DCS	24-09-2026		
30	Shadowing	28-09-2026		
31	Shadowing	29-09-2026		
32	Fading margin	30-09-2026		
33	DCS	01-10-2026		
34	Fading margin	05-10-2026		
35	Shadowing margin	06-10-2026		
36	Shadowing margin	07-10-2026		
37	DCS	08-10-2026		
38	Unit:3 - Antenna diversity	12-10-2026		
39	Antenna diversity	13-10-2026		
40	wireless channel capacity	14-10-2026		
41	DCS	15-10-2026		
42	Class Test-II	19-10-2026		
43	wireless channel capacity	21-10-2026		
44	wireless channel capacity	22-10-2026		
45	DCS	27-10-2026		
46	MIMO	28-10-2026		
47	MIMO	02-11-2026		
48	MIMO	03-11-2026		
49	DCS	04-11-2026		
50	Unit : 4 - Overview of CDMA	05-11-2026		
51	CDMA	09-11-2026		
52	CDMA	10-11-2026		
53	DCS	11-11-2026		
54	OFDM	12-11-2026		
55	OFDM	16-11-2026		
56	LTE	17-11-2026		
57	DCS	18-11-2026		
58	LTE	19-11-2026		
59	LTE	23-11-2026		
60	DCS	25-11-2026		
61	Revision	26-11-2026		

Assignments

Assignment Serial	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
A-1	Unit-I, II	09-09-2026		
A-2	Unit-II, III	21-10-2026		

House Test/Class Test

Name of test	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
Class test-I	30% of the syllabus	2 nd week of September		
Class test-II	30% of the syllabus	2 nd week of October		
House test	80% of the syllabus	As approved in academic calendar		

Lab Plan

Sr no	Name of Practical	Proposed Date		Actual Date		Remarks
		G1	G2	G1	G2	
1	1. To understand the cellular frequency reuse concept to find the co-channel cells for a particular cell.	19-08-2026	22-08-2026			
2	To understand the path loss.	26-08-2026	29-08-2026			
3	Understand the path loss with shadowing	09-09-2026	05-09-2026			
4	Understanding the Flat fading	16-09-2026	19-09-2026			
5	Understanding the Frequency selective fading	30-09-2026	26-09-2026			
6	Understanding the Multipath channel for the following objectives 1. No Fading 2. Flat Fading 3. Dispersive Fading	14-10-2026 21-10-2026	17-10-2026 24-10-2026			
7	To simulate a dipole antenna (λ , $\lambda/4$, $\lambda/2$, $3\lambda/2$) for a particular frequency using 4NEC2.	28-10-2026	31-10-2026			
8	Perform following experiments using CDMA trainer kit i) PSK modulation and demodulation experiment ii) Bit synchronization extraction experiment iii) Error correction encoding experiment	04-11-2026 11-11-2026	07-11-2026 21-11-2026			
9	Revision of practicals	18-11-2026	28-11-2026			


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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
LESSON PLAN

Program Name	Diploma in Electronics & Communication Engg. / 5 th Sem.
Course/Subject Name	Renewable Energy Technologies
Course/Subject Code	MEOE301
Course/Subject Co-ordinator Name	Raman Kumar

Evaluation Scheme:

Sr. No.	Subject Name	Study scheme (Hrs/Week)	Marks in Evaluation Scheme			
			Internal Assessment		External Assessment	
			Theory	Practical	Theory	Practical
1.	Renewable Energy Technologies	Theory- 4 hrs./week	40	-	60	-
Reference Books		(i) O.P. Gupta, Energy Technology, Khanna Publishing House, Delhi				
		(ii) Renewable Energy Sources, Twidell, J.W. & Weir, A.				
		(iii) Fundamental of Renewable Energy Sources, GN Tiwari and MK Ghoshal				

Course Outcomes (COs):

C.O.1	Understand present and future energy scenario of the world
C.O.2	Understand various methods of solar energy harvesting
C.O.3	Identify various wind energy systems
C.O.4	Evaluate appropriate methods for Bio-energy generations from various Bio-wastes
C.O.5	Identify suitable energy sources for allocation

Teaching Plan:

Sr. No.	Name of Topic	Proposed Date	Actual Date	Remarks
1	Chapter 1: World Energy Use	6-8-26		
2	Reserves of Energy Resources	10-8-26		
3	Reserves of Energy Resources	11-8-26		
4	Environmental Aspects of Energy Utilization	13-8-26		
5	Renewable Energy Scenario in India	17-8-26		
6	Renewable Energy Scenario around the World	18-8-26		
7	Renewable Energy Scenario in India and around the World - Potentials	20-8-26		
8	Renewable Energy Scenario in India and around the World-Achievements/Applications	22-8-26		
9	Economics of renewable energy systems	24-8-26		
10	Economics of renewable energy systems	25-8-26		
11	Chapter 2: Solar Radiation	27-8-26		
12	Measurements of Solar Radiation	29-8-26		
13	Flat Plate	31-8-26		
14	Concentrating Collectors	1-9-26		
15	Solar direct Thermal Applications	3-9-26		
16	Solar thermal Power Generation	5-9-26		
17	Fundamentals of Solar Photo Voltaic Conversion	7-9-26		
18	Class Test - I	8-9-26		
19	Solar Cells	10-9-26		
20	Solar Cells	14-9-26		
21	Solar PV Power Generation	15-9-26		
22	Solar PV Applications	17-9-26		



23	Chapter 3: Wind Data and Energy Estimation	19-9-26		
24	Wind Data and Energy Estimation	21-9-26		
25	Types of Wind Energy Systems	22-9-26		
26	Types of Wind Energy Systems	24-9-26		
27	Performance of Wind Energy System	26-9-26		
28	Performance of Wind Energy System	28-9-26		
29	Site Selection	29-9-26		
30	Details of Wind Turbine Generator	1-10-26		
31	Details of Wind Turbine Generator	3-10-26		
32	Safety and Environmental Aspects	5-10-26		
33	Chapter 4: Biomass direct combustion	6-10-26		
34	Biomass direct combustion	8-10-26		
35	Class Test-II	12-10-26		
36	Biomass gasifiers	13-10-26		
37	Biomass gasifiers	15-10-26		
38	Biogas plants	17-10-26		
39	Biogas plants	19-10-26		
40	Digesters	22-10-26		
41	Ethanol production	24-10-26		
42	Biodiesel	27-10-26		
43	Cogeneration	29-10-26		
44	Biomass Applications	31-10-26		
45	House Test	2-11-26		
46	House Test	3-11-26		
47	Chapter 5: Tidal energy	5-11-26		
48	Wave Energy	7-11-26		
49	Open and Closed OTEC Cycles	7-11-26		
50	Diwali Vacation	09-11-26		
51	Diwali Vacation	10-11-26		
52	Open and Closed OTEC Cycles	12-11-26		
53	Small Hydro-Geothermal Energy	16-11-26		
54	Small Hydro-Geothermal Energy	17-11-26		
55	Hydrogen and Storage	19-11-26		
56	Fuel Cell Systems	21-11-26		
57	Fuel Cell Systems	23-11-26		
58	Hybrid Systems	26-11-26		
59	Hybrid Systems	28-11-26		

Assignments:

Assignment	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
A-1	30% of syllabus	3rd week of September		
A-2	Next 30% of syllabus	2nd week of October		
A-3	Next 20% of syllabus	2nd week of November		

House Test/Class Test:

Name of test	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
Class test-I	30% of syllabus	08-09-2026		
Class test-II	Next 30% of syllabus	12-10-2026		
House test	80% of syllabus	1st week of Nov.		

(Signature of HOD)

(Signature of Teacher)

Department of Eltx. & Comm. Engg.

LESSON PLAN

Program Name	Diploma in Eltx. & Comm. Engg. / 5 th Sem.
Course Name	Embedded Systems
Course Code	ECPC301
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.	Embedded Systems	3 (Th.) 1(DCS) 2(Pr.) 1 (DCS Pr)	40	40	60	60
Reference Books		(i) Arduino Projects For Dummies By George Kennedy				
		(ii) Make: Getting Started With Arduino - The Open Source Electronics Prototyping Platform				
		(iii) https://www.arduino.cc/reference/en/ b. https://learn.adafruit.com/category/learn-arduino				

Course Outcomes (COs)

CO 1	Understanding of Embedded C basics
CO 2	Understanding and designing of Arduino based application.
CO 3	Learning the use of hardware and software tools
CO 4	Development of interfacing with real world devices.
CO 5	Demonstration of various Arduino Board and the real-world application

Teaching Plan

Sr. No.	Name of Topic	Proposed Date	Actual Date	Remarks
1	Introduction – Embedded System	06-08-2026		
2	Unit 1: Embedded C basics operators for Arduino,	07-08-2026		
3	Embedded C basics operators for Arduino,	11-08-2026		
4	Embedded C basics operators for Arduino,	12-08-2026		
5	Familiarizing with the Arduino IDE	13-08-2026		
6	Familiarizing with the Arduino IDE	14-08-2026		
7	Sketch designing for Arduino,	18-08-2026		
8	Sketch designing for Arduino,	19-08-2026		
9	Communication interface using serial port,	20-08-2026		
10	Basic understanding of the code with boolean operations,	21-08-2026		
11	Pointer access operations	25-08-2026		
12	Pointer access operations	26-08-2026		
13	Bitwise operations,	27-08-2026		
14	Bitwise operations,	28-08-2026		
15	compounded operations	01-09-2026		
16	compounded operations	02-09-2026		
17	Revision of unit-1	03-09-2026		
18	Embedded C control structure blocks,	08-09-2026		

19	Class Test -1	09-09-2026		
20	Embedded C control structure blocks,	10-09-2026		
21	Embedded C control structure blocks,	11-09-2026		
22	Looping mechanism – for, do and while.	15-09-2026		
23	Looping mechanism – for, do and while.	16-09-2026		
24	Looping mechanism – for, do and while.	17-09-2026		
25	Looping mechanism – for, do and while.	18-09-2026		
26	The branching operations based on conditions expression.	22-09-2026		
27	The branching operations based on conditions expression.	23-09-2026		
28	The branching operations based on conditions expression.	24-09-2026		
29	The branching operations based on conditions expression.	25-09-2026		
30	Revision of unit-2	29-09-2026		
31	Introduction to Arduino Mega	30-09-2026		
32	Introduction to Arduino Mega	01-10-2026		
33	Introduction to Arduino Mega	06-10-2026		
34	Arduino Mega specifications - digital & analog peripherals	07-10-2026		
35	Arduino Mega specifications - digital & analog peripherals	08-10-2026		
36	Class Test-II	09-10-2026		
37	Arduino Mega specifications - digital & analog peripherals	13-10-2026		
38	Difference between C language & Embedded C language	14-10-2026		
39	Difference between C language & Embedded C language	15-10-2026		
40	Difference between C language & Embedded C language	16-10-2026		
41	Arduino Mega Ports, Pins.	21-10-2026		
42	Arduino Mega Ports, Pins.	22-10-2026		
43	Arduino Mega Ports, Pins.	23-10-2026		
44	Arduino Mega Ports, Pins.	27-10-2026		
45	Digital and Analog Peripherals	28-10-2026		
46	Digital and Analog Peripherals	29-10-2026		
47	Digital and Analog Peripherals	30-10-2026		
48	REVISION OF UNIT-3	03-11-2026		
49	Communication with Arduino	04-11-2026		
50	Communication with Arduino	05-11-2026		
51	Communication with Arduino	06-11-2026		
52	Communication with Arduino	10-11-2026		
53	Different communication modules available with their real-life application	11-11-2026		
54	Different communication modules available with their real-life application	12-11-2026		
55	Different communication modules available with their real-life application	13-11-2026		
56	Communication interface.	17-11-2026		
57	Communication interface.	18-11-2026		
58	Communication interface.	19-11-2026		
59	Revision	20-11-2026		
60	Revision	25-11-2026		
61	Revision	26-11-2026		
62	Revision	27-11-2026		

Assignments

Assignment Serial	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
A-1	Unit I, II	11-9-2026		
A-2	Unit III, IV	21-10-2026		

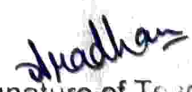
House Test/Class Test

Name of test	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
Class Test-I	30% of syllabus	2 ND week of Sept.		
Class Test-II	Next 30% of syllabus	3 RD week of Oct.		
House Test	80% of syllabus	2 ND week of Nov.		

Lab Plan

Sr.no	Name of Practical	Proposed Date		Actual Date		Remarks
		G-I	G-II	G-I	G-II	
1.	Built-in LED state control by push button sketch implementation.	10-08-2026	22-08-2026			
2.	Built-in LED blinking sketch implementation. Or Built-in LED blinking by toggling states based on binary operation.	17-08-2026	29-08-2026			
3.	Built-in LED state control by user interface through serial port.	24-08-2026	5-09-2026			
4.	User interface for Boolean operation and bit wise operation through serial port.	07-09-2026	19-09-2026			
5.	User interface for compounded operation through serial port.	14-09-2026	26-09-2026			
6.	Looping mechanism to check the state of pin and if change print its status on serial port	21-09-2026	3-10-2026			
7.	Controlling multiple LEDCS with a loop and an array.	28-09-2026	17-10-2026			
8.	Use a potentiometer to control the blinking of an LED	05-10-2026	24-10-2026			
9.	Uses an analog output (PWM pin) to fade an LED.	12-10-2026	31-10-2026			
10.	Servo Motor Control using PWM	19-10-2026	07-11-2026			
11.	Temperature sensor interfacing and sending its reading over serial port.	02-11-2026	21-11-2026			
12.	I2C light sensor interfacing and sending its reading over serial port	09-11-2026	28-11-2026			
13.	Revision of practicals	16-11-2026	28-11-2026			
14.	Revision of practicals	23-11-2026				

(Signature of HOD)


 (Signature of Teacher)