

Dr. B.R. Ambedkar Govt. Polytechnic Ambota (H.P.)

Lesson Planning

Branch : Computer Engineering

THEORY

Semester : 4

Subject : PE2 (Program Elective-2 (Wireless Communication))

Session : Jan - 2024

Teacher : Arti Sharma

Month : 3/1/2024 (12)

Class Room : LT-601

Lect. No.	Date	Period	Topics Covered/ Activities Carried Out	Actual Coverage Date	Reason for Rescheduling (if any)	Signature with Date
11.	05-Mar-24	4	Electromagnetic spectrum			
12.	06-Mar-24	5	licensed/unlicensed spectrum bands			
13.	07-Mar-24	3	ISM band, Terrestrial microwave communication			
14.	12-Mar-24	4	Satellite microwave communication *Assignment 1 - Due on 03-Dec-2024			
15.	13-Mar-24	5	Broadcast radio, infrared and light wave communication			
16.	14-Mar-24	3	Wireless transmission impairments – attenuation, distortion, noise, interference			
17.	19-Mar-24	4	Wireless transmission impairments - path loss, shadowing and fading.			
18.	20-Mar-24	5	#N/A			
19.	21-Mar-24	3	Revision of Unit-II			
20.	26-Mar-24	4	Concept of bandwidth, analog and digital signals			
21.	27-Mar-24	5	Data rate, signal strength			
22.	28-Mar-24	3	SNR, RSSI			

Signature :

Teacher Name :

Arti Sharma

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Dr. B.R. Ambedkar Govt. Polytechnic Ambota (H.P.)

Lesson Planning

Branch : Computer Engineering

THEORY

Semester : 4

Subject : PE2 (Program Elective-2 (Wireless Communication))

Session : Jan - 2024

Teacher : Arti Sharma

Month : 4/1/2024 (11)

Class Room : LT-601

Lect. No.	Date	Period	Topics Covered/ Activities Carried Out	Actual Coverage Date	Reason for Rescheduling (if any)	Signature with Date
23.	02-Apr-24	4	Electromagnetic wave propagation: ground waves, sky waves			
24.	03-Apr-24	5	Electromagnetic wave propagation : line-of-sight propagation, radiowaves			
25.	04-Apr-24	3	Electromagnetic wave propagation : microwaves, infrared			
26.	09-Apr-24	4	Overview of Propagation Mechanisms: reflection, diffraction and scattering			
27.	10-Apr-24	5	Overview of Propagation Mechanisms: outdoor and indoor propagation.			
28.	16-Apr-24	4	Revision of Unit-III			
29.	18-Apr-24	3	Cellular Communication: cellular concept *Assignment 1 - Due on 18/04/2024			
30.	23-Apr-24	4	Cellular system architecture			
31.	24-Apr-24	5	Cells, clusters, frequency reuse			
32.	25-Apr-24	3	Class Test-2			
33.	30-Apr-24	4	Cell splitting, handof			

Signature :

Teacher Name :

Arti Sharma

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MONTHLY REVIEW BY THE HEAD OF DEPARTMENT/ PRINCIPAL

Dr. B.R. Ambedkar Govt. Polytechnic Ambota (H.P.)

Lesson Planning

Branch : Computer Engineering

THEORY

Semester : 4

Subject : PE2 (Program Elective-2 (Wireless Communication))

Session : Jan - 2024

Teacher : Arti Sharma

Month : 5/1/2024 (13)

Class Room : LT-601

Lect. No.	Date	Period	Topics Covered/ Activities Carried Out	Actual Coverage Date	Reason for Rescheduling (if any)	Signature with Date
34.	01-May-24	5	Digital Cellular System: TDMA, ETDM			
35.	02-May-24	3	PCS, CDMA			
36.	07-May-24	4	Global System for Mobile Communication (GSM)			
37.	08-May-24	5	Operation and support system			
38.	09-May-24	3	Generations of cellular networks and their features (1G – 5G).			
39.	14-May-24	4	Revision of Unit-IV			
40.	15-May-24	5	Wireless LAN (WLAN)			
41.	16-May-24	3	IEEE-802.11, WLAN applications, WLAN types *Assignment 1 - Due on 16/05/2024			
42.	21-May-24	4	WLAN problems – hidden station and exposed station problems			
43.	22-May-24	5	Bluetooth technology			
44.	28-May-24	4	Direct Sequence Spectrum Scheme			
45.	29-May-24	5	Frequency Hopping Spread Spectrum ,Personal Area Networks			
46.	30-May-24	3	Revision of Unit-V			

Signature :



Teacher Name :

Arti Sharma

H.O.D./PPL

MONTHLY REVIEW BY THE HEAD OF DEPARTMENT/ PRINCIPAL

Dr. B.R. Ambedkar Govt. Polytechnic Ambota (H.P.)

Lesson Planning

PRACTICALS

Program Elective-2

Group : 1 (20)

Semester : 4

Session : Jan - 2024

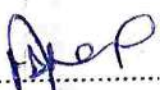
Lab : Network Lab

Branch : Computer Engineering

Subject : PE2

Teacher : Arti Sharma

SNo.	Date	Pr. No.	Practical	Actual Date of Performance	Reason for Rescheduling (if any)	Signature with Date
1.	13-Feb-24	1	Orientation			
2.	17-Feb-24	1	Orientation			
3.	20-Feb-24	2	To identify various wireless networking devices and to recognise physical topology in the lab.			
4.	27-Feb-24	2	To identify various wireless networking devices and to recognise physical topology in the lab.			
5.	02-Mar-24	2	To identify various wireless networking devices and to recognise physical topology in the lab.			
6.	05-Mar-24	V	Report Checking and Viva			
7.	12-Mar-24	3	To create WLAN of at least five wireless devices using any simulation tool (e.g. packettracer).			
8.	16-Mar-24	3	To create WLAN of at least five wireless devices using any simulation tool (e.g. packettracer).			
9.	19-Mar-24	3	To create WLAN of at least five wireless devices using any simulation tool (e.g. packettracer).			
10.	23-Mar-24	V	Report Checking and Viva			
11.	26-Mar-24	4	To setup a WLAN using access point.			
12.	30-Mar-24	4	To setup a WLAN using access point.			
13.	02-Apr-24	4	To setup a WLAN using access point.			
14.	06-Apr-24	V	Report Checking and Viva			
15.	09-Apr-24	5	Data sharing using Bluetooth.			
16.	16-Apr-24	5	Data sharing using Bluetooth.			
17.	20-Apr-24	5	Data sharing using Bluetooth.			
18.	23-Apr-24	V	Report Checking and Viva			
19.	27-Apr-24	6	To transfer data between two wireless devices (e.g.PC-PC, PC-Smart phone)			
20.	30-Apr-24	6	To transfer data between two wireless devices (e.g.PC-PC, PC-Smart phone)			

Signature : 

Teacher Name : Arti Sharma


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Dr. B.R. Ambedkar Govt. Polytechnic Ambota (H.P.)

Branch : **Computer Engineering**

Subject : PE2

acher : **Arti Sharma**

Lesson Planning

PRACTICALS

Program Elective-2

Group : 1 (08)

Semester : 4

Session : Jan - 2024

Lab : Network Lab

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Signature:

cher Name : Arti Sharma

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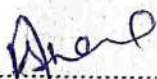
Dr. B.R. Ambedkar Govt. Polytechnic Ambota (H.P.)

Branch : Computer Engineering
Subject : PE2
Teacher : Arti Sharma

Lesson Planning
PRACTICALS
Program Elective-2
Group : 2 (20)

Semester : 4
Session : Jan - 2024
Lab : Network Lab

Date	Pr. No.	Practical	Actual Date of Performance	Reason for Rescheduling (if any)	Signature with Date
08-Feb-24	1	Orientation			
09-Feb-24	1	Orientation			
15-Feb-24	2	To identify various wireless networking devices and to recognise physical topology in the lab.			
16-Feb-24	2	To identify various wireless networking devices and to recognise physical topology in the lab.			
22-Feb-24	2	To identify various wireless networking devices and to recognise physical topology in the lab.			
23-Feb-24	V	Report Checking and Viva			
29-Feb-24	3	To create WLAN of at least five wireless devices using any simulation tool (e.g. packettracer).			
01-Mar-24	3	To create WLAN of at least five wireless devices using any simulation tool (e.g. packettracer).			
07-Mar-24	3	To create WLAN of at least five wireless devices using any simulation tool (e.g. packettracer).			
14-Mar-24	V	Report Checking and Viva			
15-Mar-24	4	To setup a WLAN using access point.			
21-Mar-24	4	To setup a WLAN using access point.			
22-Mar-24	4	To setup a WLAN using access point.			
28-Mar-24	V	Report Checking and Viva			
04-Apr-24	5	Data sharing using Bluetooth.			
05-Apr-24	5	Data sharing using Bluetooth.			
12-Apr-24	5	Data-sharing using Bluetooth.			
18-Apr-24	V	Report Checking and Viva			
19-Apr-24	6	To transfer data between two wireless devices (e.g.PC-PC, PC-Smart phone)			
25-Apr-24	6	To transfer data between two wireless devices (e.g.PC-PC, PC-Smart phone)			

Signature : 
Teacher Name : Arti Sharma


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Dr. B.R. Ambedkar Govt. Polytechnic Ambota (H.P.)

Lesson Planning

Branch : **Computer Engineering**

Subject : PE2

Teacher : **Arti Sharma**

PRACTICALS

Program Elective-2

Group : 2 (09)

Semester : 4

Session : Jan - 2024

Lab : Network Lab

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Signature :

Teacher Name : Arti Sharma

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MONTHLY REVIEW BY THE HEAD OF DEPARTMENT

Dr. B.R. Ambedkar Govt. Polytechnic Ambota (H.P.)

Lesson Planning

Branch : Computer Engineering

THEORY

Semester : 6

Subject : PE1 (Program Elective-1)

Session : Jan - 2024

Teacher : Ashish Kalia

Month : Feb-2024 (10)

Class Room : LT-601

Lect. No.	Date	Period	Topics Covered/ Activities Carried Out	Actual Coverage Date	Reason for Rescheduling (if any)	Signature with Date
1.	09-Feb-24	1	Orientation			
2.	12-Feb-24	5	Background and foundation			
3.	14-Feb-24	3	Definition & components of Intelligence, AI Definition			
4.	16-Feb-24	1	Human Intelligence Vs. Artificial Intelligence, Goals of AI			
5.	17-Feb-24	4	Foundational Disciplines in AI, Evolution of AI			
6.	19-Feb-24	5	Symbolic AI, AI Winters			
7.	21-Feb-24	3	Risks and Benefits of AI			
8.	23-Feb-24	1	Machine Learning			
9.	26-Feb-24	5	Neural Networks			
10.	28-Feb-24	3	Machine Vision, Robotics			

Signature : _____

Ashish Kalia

Teacher Name :

Ashish Kalia

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MONTHLY REVIEW BY THE HEAD OF DEPARTMENT/ PRINCIPAL

Dr. B.R. Ambedkar Govt. Polytechnic Ambota (H.P.)

Lesson Planning

Branch : Computer Engineering

THEORY

Semester : 6

Subject : PE1 (Program Elective-1)

Session : Jan - 2024

Teacher : Ashish Kalia

Month : Mar-2024 (14)

Class Room : LT-601

Lect. No.	Date	Period	Topics Covered/ Activities Carried Out	Actual Coverage Date	Reason for Rescheduling (if any)	Signature with Date
11.	01-Mar-24	1	Expert Systems			
12.	02-Mar-24	4	Natural Language Processing.			
13.	04-Mar-24	5	Revision of Unit I			
14.	06-Mar-24	3	Acting Humanly (Turing Test) *Assignment 1 - Due on 11-Mar-2024			
15.	11-Mar-24	5	Thinking Humanly			
16.	13-Mar-24	3	Acting Rationally			
17.	15-Mar-24	1	Thinking Rationally			
18.	16-Mar-24	4	Simple Reflex Agent			
19.	18-Mar-24	5	Model-based Reflex Agent			
20.	20-Mar-24	3	Goal based Agent			
21.	22-Mar-24	1	Utility-based Agent			
22.	23-Mar-24	4	Class Test-1			
23.	27-Mar-24	3	Learning Agent			
24.	30-Mar-24	4	Agent Environment			

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Teacher Name :

Ashish Kalia

H.O.D./PPL

MONTHLY REVIEW BY THE HEAD OF DEPARTMENT/ PRINCIPAL

Dr. B.R. Ambedkar Govt. Polytechnic Ambota (H.P.)

Lesson Planning

Branch : Computer Engineering

THEORY

Semester : 6

Subject : PE1 (Program Elective-1)

Session : Jan - 2024

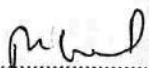
Teacher : Ashish Kalia

Month : May-2024 (16)

Class Room : LT-601

Lect. No.	Date	Period	Topics Covered/ Activities Carried Out	Actual Coverage Date	Reason for Rescheduling (if any)	Signature with Date
39.	01-May-24	3	Propositional Logic, First Order Logic			
40.	03-May-24	1	Fuzzy Logic, Soundness and Completeness			
41.	04-May-24	4	Modus Ponens, Modus Tollens, Forward and Backward Chaining			
42.	06-May-24	5	Reasoning, Temporal and Spatial Reasoning			
43.	08-May-24	3	Probabilistic Reasoning, Inference and Resolution for Problem Solving			
44.	13-May-24	5	Expert Systems			
45.	15-May-24	3	Revision of Unit IV			
46.	17-May-24	1	PAC Learning Model			
47.	18-May-24	4	Supervised & Unsupervised Learning, Reinforcement Learning			
48.	20-May-24	5	Linear Regression and Classification *Assignment 3 - Due on 22-May-2024			
49.	22-May-24	3	Inductive Learning			
50.	24-May-24	1	Decision Tree			
51.	25-May-24	4	Biological Neurons, Perceptron			
52.	27-May-24	5	Artificial Neural Network			
53.	29-May-24	3	Feedforward Multi-Layer Perceptron			
54.	31-May-24	1	Training the Artificial Neural Network			

Signature :



Teacher Name :

Ashish Kalia

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MONTHLY REVIEW BY THE HEAD OF DEPARTMENT/ PRINCIPAL

Dr. B.R. Ambedkar Govt. Polytechnic Ambota (H.P.)

Lesson Planning

Branch : Computer Engineering

THEORY

Semester : 4

Subject : DBMS (Database Management Systems)

Session : Jan - 2024

Teacher : Pooja Thakur

Month : Feb-2024 (11)

Class Room : LT-601

Lect. No.	Date	Period	Topics Covered/ Activities Carried Out	Actual Coverage Date	Reason for Rescheduling (if any)	Signature with Date
1.	08-Feb-24	4	Orientation			
2.	12-Feb-24	1	Background and foundation			
3.	14-Feb-24	6	Database Systems, Database and its Purpose			
4.	15-Feb-24	4	Comparison of Database Approach with File-based and Traditional Record Keeping Approaches			
5.	17-Feb-24	3	Advantages and Disadvantages of Database Approach			
6.	19-Feb-24	1	Classification of Database Users			
7.	21-Feb-24	6	Role of DBA			
8.	22-Feb-24	4	Revision of Unit-I			
9.	26-Feb-24	1	Data Models			
10.	28-Feb-24	6	Schemas, and Instances			
11.	29-Feb-24	4	ANSI/SPARC Architecture of a Database System *Assignment 1 - Due on 07-Mar-2024			

Signature : _____

Teacher Name : _____

Pooja Thakur

H.O.D./PPL

MONTHLY REVIEW BY THE HEAD OF DEPARTMENT/ PRINCIPAL

Dr. B.R. Ambedkar Govt. Polytechnic Ambota (H.P.)

Lesson Planning

Branch : Computer Engineering

THEORY

Semester : 4

Subject : DBMS (Database Management Systems)

Session : Jan - 2024

Teacher : Pooja Thakur

Month : Mar-2024 (15)

Class Room : LT-601

Lect. No.	Date	Period	Topics Covered/ Activities Carried Out	Actual Coverage Date	Reason for Rescheduling (if any)	Signature with Date
12.	02-Mar-24	3	External Level, Conceptual Level, Internal Level, Mappings			
13.	04-Mar-24	1	Data Independence, Logical Data Independence, Physical Data Independence			
14.	06-Mar-24	6	Revision of Unit-2			
15.	07-Mar-24	4	Revision of Unit-2			
16.	11-Mar-24	1	Relational Database Model			
17.	13-Mar-24	6	Relations, Attributes			
18.	14-Mar-24	4	Tuples, Domains			
19.	16-Mar-24	3	Prime and Non-prime Attributes			
20.	18-Mar-24	1	CT1			
21.	20-Mar-24	6	Key – Primary Key, Candidate Keys, Alternate Keys			
22.	21-Mar-24	4	Superkey, Secondary Key, Foreign Keys			
23.	23-Mar-24	3	Database Constraints, Entity Relationship Model			
24.	27-Mar-24	6	Entity, Entity Sets, Strong and Weak Entities, Attributes, and Keys;			
25.	28-Mar-24	4	Relationship, Roles, Structural Constraints			
26.	30-Mar-24	3	ER Diagrams *Assignment 2 - Due on 06-Apr-2024			

Signature : _____

Teacher Name : _____

Pooja Thakur

H.O.D./PPL

MONTHLY REVIEW BY THE HEAD OF DEPARTMENT/ PRINCIPAL

Dr. B.R. Ambedkar Govt. Polytechnic Ambota (H.P.)

Lesson Planning

Branch : Computer Engineering

THEORY

Semester : 4

Subject : DBMS (Database Management Systems)

Session : Jan - 2024

Teacher : Pooja Thakur

Month : Apr-2024 (13)

Class Room : LT-601

Lect. No.	Date	Period	Topics Covered/ Activities Carried Out	Actual Coverage Date	Reason for Rescheduling (if any)	Signature with Date
27.	01-Apr-24	1	Revision of Unit-3			
28.	03-Apr-24	6	Functional Dependencies, Trivial and Non-trivial Dependencies			
29.	04-Apr-24	4	Non-Loss Decomposition			
30.	06-Apr-24	3	Normalization, First Normal Form			
31.	08-Apr-24	1	Second and Third Normal Forms			
32.	10-Apr-24	6	Boyce-Codd Normal Form			
33.	18-Apr-24	4	Revision of Unit-4			
34.	20-Apr-24	3	MySQL, Features of MySQL			
35.	22-Apr-24	1	CT2			
36.	24-Apr-24	6	Database Objects - Database, Table			
37.	25-Apr-24	4	View, Index, Alias; MySQL Object Naming, Keywords, User-defined Variables			
38.	27-Apr-24	3	Data Types - Numeric, Date and Time, String Types			
39.	29-Apr-24	1	Operators: Arithmetic, Logical, Relational, String; MySQL System Schema *Assignment 3 Due on 04 May 2024			

Signature :

Teacher Name :

Pooja Thakur

H.O.D./PPL

MONTHLY REVIEW BY THE HEAD OF DEPARTMENT/ PRINCIPAL

Dr. B.R. Ambedkar Govt. Polytechnic Ambota (H.P.)

Branch : Computer Engineering

Subject : DBMS

Teacher : Pooja Thakur

Lesson Planning

PRACTICALS

Database Management Systems

Semester : 4

Session : Jan - 2024

Group : 1 (20)

Lab : Multimedia Lab

SNo.	Date	Pr. No.	Practical	Actual Date of Performance	Reason for Rescheduling (if any)	Signature with Date
1.	08-Feb-24	1	Orientation			
2.	14-Feb-24	2	To install and configure MySQL database server on Windows or Linux machines.			
3.	15-Feb-24	2	To install and configure MySQL database server on Windows or Linux machines..			
4.	21-Feb-24	3	To insert data in a table having columns of different data types (INSERT statement).			
5.	22-Feb-24	3	To insert data in a table having columns of different data types (INSERT statement).			
6.	28-Feb-24	V	Viva and Report Checking			
7.	29-Feb-24	4	To create database tables having columns with different data types, widths and precisions.			
8.	06-Mar-24	4	To create database tables having columns with different data types, widths and precisions.			
9.	07-Mar-24	V	Viva and Report Checking			
10.	13-Mar-24	5	To alter existing database tables to add new columns, delete existing columns and change			
11.	14-Mar-24	5	To alter existing database tables to add new columns, delete existing columns and change			
12.	20-Mar-24	V	Viva and Report Checking			
13.	21-Mar-24	6	To apply integrity constraints - PRIMARY KEY, NOT NULL, UNIQUE, CHECK, FOREIGN KEY, to the			
14.	27-Mar-24	6	To apply integrity constraints - PRIMARY KEY, NOT NULL, UNIQUE, CHECK, FOREIGN KEY, to the			
15.	28-Mar-24	7	To view the data stored in different tables using the SELECT statement. Apply WHERE,HAVING,			
16.	03-Apr-24	7	To view the data stored in different tables using the SELECT statement. Apply WHERE,HAVING,			
17.	04-Apr-24	V	Viva and Report Checking			
18.	10-Apr-24	8	To demonstrate at least 10 SQL row functions in queries			
19.	18-Apr-24	8	To demonstrate at least 10 SQL row functions in queries			
20.	24-Apr-24	9	To demonstrate SUM, MAX, MIN, COUNT aggregate functions and also demonstrate the use			

Signature :

Teacher Name : Pooja Thakur

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MONTHLY REVIEW BY THE HEAD OF DEPARTMENT

Dr. B.R. Ambedkar Govt. Polytechnic Ambota (H.P.)

Lesson Planning

Branch : **Computer Engineering**

PRACTICALS

Semester : 4

Subject : **DBMS**

Database Management Systems

Session : Jan - 2024

Teacher : **Pooja Thakur**

Group : 1 (10)

Lab : Multimedia Lab

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Signature :

Teacher Name : Pooja Thakur

HOD/PPL

MONTHLY REVIEW BY THE HEAD OF DEPARTMENT

H.P. Govt. Polytechnic Ambota (H.P.)

Lesson Planning

PRACTICALS

Database Management Systems

Semester : 4

Session : Jan - 2024

Lab : Multimedia Lab

Group : 2 (20)

Branch : Computer Engineering

Subject : DBMS

Teacher : Pooja Thakur

SNo.	Date	Pr. No.	Practical	Actual Date of Performance	Reason for Rescheduling (if any)	Signature with Date
1.	13-Feb-24	1	Orientation			
2.	17-Feb-24	2	To install and configure MySQL database server on Windows or Linux machines.			
3.	20-Feb-24	2	To install and configure MySQL database server on Windows or Linux machines.			
4.	27-Feb-24	3	To insert data in a table having columns of different data types (INSERT statement).			
5.	02-Mar-24	3	To insert data in a table having columns of different data types (INSERT statement).			
6.	05-Mar-24	4	To create database tables having columns with different data types, widths and precisions.			
7.	12-Mar-24	4	To create database tables having columns with different data types, widths and precisions.			
8.	16-Mar-24	5	To alter existing database tables to add new columns, delete existing columns and change			
9.	19-Mar-24	5	To alter existing database tables to add new columns, delete existing columns and change			
10.	23-Mar-24	6	To apply integrity constraints - PRIMARY KEY, NOT NULL, UNIQUE, CHECK, FOREIGN KEY, to the			
11.	26-Mar-24	6	To apply integrity constraints - PRIMARY KEY, NOT NULL, UNIQUE, CHECK, FOREIGN KEY, to the			
12.	30-Mar-24	7	To view the data stored in different tables using the SELECT statement. Apply WHERE, HAVING,			
13.	02-Apr-24	7	To view the data stored in different tables using the SELECT statement. Apply WHERE, HAVING,			
14.	06-Apr-24	V	Viva and Report Checking			
15.	09-Apr-24	8	To demonstrate at least 10 SQL row functions in queries			
16.	16-Apr-24	8	To demonstrate at least 10 SQL row functions in queries			
17.	20-Apr-24	V	Viva and Report Checking			
18.	23-Apr-24	9	To demonstrate SUM, MAX, MIN, COUNT aggregate functions and also demonstrate the use			
19.	27-Apr-24	9	To demonstrate SUM, MAX, MIN, COUNT aggregate functions and also demonstrate the use			
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Signature : _____

Teacher Name : Pooja Thakur

HOD/PPL

MONTHLY REVIEW BY THE HEAD OF DEPARTMENT

Dr. B.R. Ambedkar Govt. Polytechnic Ambota (H.P.)

Lesson Planning

Branch : **Computer Engineering**

PRACTICALS

Semester : 4

Subject : DBMS

Database Management Systems

Session : Jan - 2024

Teacher : **Pooja Thakur**

Group : 2 (08)

Lab : Multimedia Lab

[illegible]

Signature : 

Teacher Name : Pooja Thakur

HOD/PPL

BY THE HEAD OF DEPARTMENT

Dr. B.R. Ambedkar Govt. Polytechnic Ambota (H.P.)

Lesson Planning

Branch : Computer Engineering

THEORY

Semester : 4

Subject : DSA (Data Structures & Algorithms)

Session : Jan - 2024

Teacher : Anjana Chaudhary

Month : Feb-2024 (10)

Class Room : LT-602

Lect. No.	Date	Period	Topics Covered/ Activities Carried Out	Actual Coverage Date	Reason for Rescheduling (if any)	Signature with Date
1.	09-Feb-24	2	Orientation	09/02/24		
2.	12-Feb-24	2	Background and foundation			
3.	13-Feb-24	3	Algorithms-Definition, Characteristics			
4.	16-Feb-24	2	Efficiency, Notations - Asymptotic			
5.	17-Feb-24	5	Big-Oh, Omega, Theta notation			
6.	19-Feb-24	2	Data Types, Data Structures-Characteristics			
7.	20-Feb-24	3	Types - Linear, Non-linear			
8.	23-Feb-24	2	General Operations, Efficiency			
9.	26-Feb-24	2	Revision of Unit-1			
10.	27-Feb-24	3	Arrays, One-Dimensional and Multi-Dimensional Arrays			

Signature :

Teacher Name :

Anjana Chaudhary

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MONTHLY REVIEW BY THE HEAD OF DEPARTMENT/ PRINCIPAL

B.R. Ambedkar Govt. Polytechnic Ambota (H.P.)

Lesson Planning

Branch : Computer Engineering

THEORY

Semester : 4

Subject : DSA (Data Structures & Algorithms)

Session : Jan - 2024

Teacher : Anjana Chaudhary

Month : Mar-2024 (14)

Class Room : LT-601

Date	Period	Topics Covered/ Activities Carried Out	Actual Coverage Date	Reason for Rescheduling (if any)	Signature with Date
01-Mar-24	2	One-Dimensional Arrays-Memory Representation, Traversal			
02-Mar-24	5	Insertion and Deletion			
04-Mar-24	2	Sorting			
05-Mar-24	3	Searching			
11-Mar-24	2	Two-Dimensional Arrays-Memory Representation			
12-Mar-24	3	Implement Matrices using Two-Dimensional Arrays			
15-Mar-24	2	Matrix Operations-Addition, Subtraction			
16-Mar-24	5	Multiplication, Transpose			
18-Mar-24	2	Accessing structure members using (.) operators *Assignment 1 - Due on 22-Mar-2024			
19-Mar-24	3	Class Test-1			
22-Mar-24	2	Access structure using (->) operators			
23-Mar-24	5	Self-referencing structures			
26-Mar-24	3	Pointers-Dynamic Memory Allocation using malloc(), calloc()			
30-Mar-24	5	Free() and realloc()			

Dr. B.R. Ambedkar Govt. Polytechnic Ambota (H.P.)

Lesson Planning

Branch : Computer Engineering

THEORY

Semester : 4

Subject : DSA (Data Structures & Algorithms)

Session : Jan - 2024

Teacher : Anjana Chaudhary

Month : Apr-2024 (16)

Class Room : LT-601

Lect. No.	Date	Period	Topics Covered/ Activities Carried Out	Actual Coverage Date	Reason for Rescheduling (if any)	Signature with Date
29.	01-Apr-24	2	Manipulate Arrays using Pointers			
30.	02-Apr-24	3	Revision of Unit-2			
31.	05-Apr-24	2	Searching Techniques - Linear Search			
32.	06-Apr-24	5	Binary Search			
33.	08-Apr-24	2	Sorting Techniques – Selection Sort			
34.	09-Apr-24	3	Insertion Sort			
35.	12-Apr-24	2	Bubble Sort			
36.	16-Apr-24	3	Quick Sort			
37.	19-Apr-24	2	Merge Sort			
38.	20-Apr-24	5	Efficiencies of Sorting Algorithms			
39.	22-Apr-24	2	Revision of Unit-3			
40.	23-Apr-24	3	Linked Lists - Representation, Advantages, Disadvantages			
41.	26-Apr-24	2	Class Test-2			
42.	27-Apr-24	5	Linked List Implementation *Assignment 2 - Due on 30-Apr-2024			
43.	29-Apr-24	2	Operations on Linked Lists			
44.	30-Apr-24	3	Operations on Linked Lists			

Signature : _____

Teacher Name : _____

Anjana Chaudhary

H.O.D./PPL

MONTHLY REVIEW BY THE HEAD OF DEPARTMENT/ PRINCIPAL

Dr. B.R. Ambedkar Govt. Polytechnic Ambota (H.P.)

Lesson Planning

Branch : Computer Engineering

THEORY

Semester : 4

Subject : DSA (Data Structures & Algorithms)

Session : Jan - 2024

Teacher : Anjana Chaudhary

Month : May-2024 (15)

Class Room : LT-601

Lect. No.	Date	Period	Topics Covered/ Activities Carried Out	Actual Coverage Date	Reason for Rescheduling (if any)	Signature with Date
45.	03-May-24	2	Doubly Linked List			
46.	04-May-24	5	Stacks, Stack Operations - Push, Pop			
47.	06-May-24	2	Stack Operations - Push, Pop			
48.	07-May-24	3	Implementation of Stack using Arrays			
49.	13-May-24	2	Implementation of Stack using Linked List			
50.	14-May-24	3	Queues, Queue operations			
51.	17-May-24	2	Implementation of Queue using Arrays *Assignment 3 - Due on 21-May-2024			
52.	18-May-24	5	Implementation of Queue using Linked List			
53.	20-May-24	2	Revision of Unit-4			
54.	21-May-24	3	Trees, Tree Terminology			
55.	24-May-24	2	Binary Tree, Binary Tree Representation			
56.	25-May-24	5	Binary Tree Traversal			
57.	27-May-24	2	Binary Search Tree, Graphs			
58.	28-May-24	3	Graph Terminology, Directed Graphs, Weighted Graphs			
59.	31-May-24	2	Graph Implementation using Adjacency Matrix and Adjacency List			

Signature :

Teacher Name :

Anjana Chaudhary

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MONTHLY REVIEW BY THE HEAD OF DEPARTMENT/ PRINCIPAL

Dr. B.R. Ambedkar Govt. Polytechnic Ambota (H.P.)

Lesson Planning

PRACTICALS

Data Structures & Algorithms

Group : 1 (20)

Semester : 4

Session : Jan - 2024

Lab : Computer Center

Branch : Computer Engineering
Subject : DSA
Teacher : Anjana Chaudhary

SNo.	Date	Pr. No.	Practical	Actual Date of Performance	Reason for Rescheduling (if any)	Signature with Date
1.	09-Feb-24	1	Orientation			
2.	13-Feb-24	2	To insert and delete elements at specified location in an array.			
3.	16-Feb-24	2	To insert and delete elements at specified location in an array.			
4.	20-Feb-24	3	To search an element in an array using linear search.			
5.	23-Feb-24	V	Report Checking and Viva			
6.	27-Feb-24	4	To search an element in a sorted array using binary search.			
7.	01-Mar-24	5	To sort elements of a given array in ascending order using selection sort method.			
8.	05-Mar-24	6	To sort elements of a given array in ascending order using bubble sort method.			
9.	12-Mar-24	V	Report Checking and Viva			
10.	15-Mar-24	7	To sort elements of a given array in ascending order using quick sort method.			
11.	19-Mar-24	7	To sort elements of a given array in ascending order using quick sort method.			
12.	22-Mar-24	8	To sort elements of a given array in descending order using insertion sort technique.			
13.	26-Mar-24	9	To sort elements of a given array in descending order using merge sort technique.			
14.	02-Apr-24	10	To implement a stack and demonstrate push, pop and peek operations on it.			
15.	05-Apr-24	10	To implement a stack and demonstrate push, pop and peek operations on it.			
16.	09-Apr-24	V	Report Checking and Viva			
17.	12-Apr-24	11	To implement a queue and demonstrate various operations on it.			
18.	16-Apr-24	11	To implement a queue and demonstrate various operations on it.			
19.	19-Apr-24	12	To implement a circular-queue and demonstrate various operations on it.			
20.	23-Apr-24	12	To implement a circular-queue and demonstrate various operations on it.			

Signature :

Teacher Name : Anjana Chaudhary

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MONTHLY REVIEW BY THE HEAD OF DEPARTMENT

Dr. B.R. Ambedkar Govt. Polytechnic Ambota (H.P.)

Lesson Planning

PRACTICALS

Semester : 4

Session : Jan - 2024

Lab : Computer C

Subject: **Computer Engineering**

subject : DSA

Data Structures & Algorithms

Group : 1 (10)

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Signature :

Teacher Name : Anjana Chaudhary

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Dr. B.R. Ambedkar Govt. Polytechnic Ambota (H.P.)

Lesson Planning

PRACTICALS

Data Structures & Algorithms

Semester : 4

Session : Jan - 2024

Lab : Computer Centre

Branch : Computer Engineering

Subject : DSA

Teacher : Anjana Chaudhary

Group : 2 (20)

SNo.	Date	Pr. No.	Practical	Actual Date of Performance	Reason for Rescheduling (if any)	Signature with Date
1.	12-Feb-24	1	Orientation			
2.	14-Feb-24	2	To insert and delete elements at specified location in an array.			
3.	19-Feb-24	2	To insert and delete elements at specified location in an array.			
4.	21-Feb-24	3	To search an element in an array using linear search.			
5.	26-Feb-24	V	Report Checking and Viva			
6.	28-Feb-24	4	To search an element in a sorted array using binary search.			
7.	04-Mar-24	5	To sort elements of a given array in ascending order using selection sort method.			
8.	06-Mar-24	6	To sort elements of a given array in ascending order using bubble sort method.			
9.	11-Mar-24	V	Report Checking and Viva			
10.	13-Mar-24	7	To sort elements of a given array in ascending order using quick sort method.			
11.	18-Mar-24	7	To sort elements of a given array in ascending order using quick sort method.			
12.	20-Mar-24	8	To sort elements of a given array in descending order using insertion sort technique.			
13.	27-Mar-24	8	To sort elements of a given array in descending order using insertion sort technique.			
14.	01-Apr-24	9	To sort elements of a given array in descending order using merge sort technique.			
15.	03-Apr-24	V	Report Checking and Viva			
16.	08-Apr-24	10	To implement a stack and demonstrate push, pop and peek operations on it.			
17.	10-Apr-24	10	To implement a stack and demonstrate push, pop and peek operations on it.			
18.	22-Apr-24	11	To implement a queue and demonstrate various operations on it.			
19.	24-Apr-24	11	To implement a queue and demonstrate various operations on it.			
20.	29-Apr-24	12	To implement a circular-queue and demonstrate various operations on it.			

Signature : _____

Teacher Name : Anjana Chaudhary

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Dr. B.R. Ambedkar Govt. Polytechnic Ambota (H.P.)

Lesson Planning

PRACTICALS

Data Structures & Algorithms

Semester : 4

Session : Jan - 2024

Lab : Computer Center

Branch : Computer Engineering

Subject : DSA

Teacher : Anjana Chaudhary

Group : 2 (09)

SNo.	Date	Pr. No.	Practical	Actual Date of Performance	Reason for Rescheduling (if any)	Signature with Date
21.	01-May-24	12	To implement a circular-queue and demonstrate various operations on it.			
22.	06-May-24	V	Report Checking and Viva			
23.	08-May-24	13	To implement a linked list and demonstrate insertion, deletion and traversing operations on it.			
24.	13-May-24	13	To implement a linked list and demonstrate insertion, deletion and traversing operations on it.			
25.	15-May-24	14	To implement a doubly linked list and demonstrate insertion, deletion and traversing operations.			
26.	20-May-24	14	To implement a doubly linked list and demonstrate insertion, deletion and traversing operations.			
27.	22-May-24	15	To implement a tree and perform in-order, pre-order and post-order traversals.			
28.	27-May-24	16	To implement a binary search tree and perform insertion, deletion and search operations on it.			
29.	29-May-24	V	Report Checking and Viva			

Signature :

Teacher Name : Anjana Chaudhary

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