

Lesson Planning

Branch : **Computer Engineering**

THEORY

Semester : 4

Subject : DBMS (Database Management Systems)

Session : Jun - 2026

Teacher : **Pooja Thakur**

Month : **Jan-2026** (03)

Class Room : 601

[illegible]

Signature :

Teacher Name :

Pooja Thakur

H.O.D./PPL

MONTHLY REVIEW BY THE HEAD OF DEPARTMENT/ PRINCIPAL

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

Lesson Planning

Branch : **Computer Engineering**

THEORY

Semester : **4**

Subject : **DBMS (Database Management Systems)**

Session : **Jun - 2026**

Teacher : **Pooja Thakur**

Month : **Feb-2026 (15)**

Class Room : **601**

Lect. No.	Date	Period	Topics Covered/ Activities Carried Out	Actual Coverage Date	Reason for Rescheduling (if any)	Signature with D
4.	02-Feb-26	2	Comparison of Database Approach with File-based Approaches			
5.	03-Feb-26	3	Advantages and Disadvantages of Database Approach			
6.	04-Feb-26	1	Classification of Database Users			
7.	07-Feb-26	1	Role of DBA			
8.	09-Feb-26	2	Revision of Unit-1			
9.	10-Feb-26	3	Data Models			
10.	11-Feb-26	1	Schemas, and Instances			
11.	16-Feb-26	2	ANSI/SPARC Architecture of a Database System			
12.	17-Feb-26	3	External Level, Conceptual Level, Internal Level			
13.	18-Feb-26	1	Mappings			
14.	21-Feb-26	1	Data Independence,			
15.	23-Feb-26	2	Revision of Unit-2 *Assignment 1 - Due on 28/02/2026			
16.	24-Feb-26	3	Relational Database Model			
17.	25-Feb-26	1	Relations, Attributes			
18.	28-Feb-26	1	Tuples, Domains			

Signature : _____

Teacher Name : _____

Pooja Thakur

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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 : Jun - 2026

Teacher : Pooja Thakur

Month : Mar-2026 (15)

Class Room : 601

Lect. No.	Date	Period	Topics Covered/ Activities Carried Out	Actual Coverage Date	Reason for Rescheduling (if any)	Signature with Date
19.	02-Mar-26	2	Prime and Non-prime Attributes			
20.	03-Mar-26	3	Tuples, Domains			
21.	07-Mar-26	1	Key – Primary Key, Candidate Keys, Alternate Key			
22.	09-Mar-26	2	Superkey, Secondary Key, Foreign Key			
23.	10-Mar-26	3	Class Test - 1			
24.	11-Mar-26	1	Strong and Weak Entities, Attributes, and Keys			
25.	16-Mar-26	2	Association, Relationship, Roles, Structural Constraints			
26.	17-Mar-26	3	ER Diagrams, Structural Constraints			
27.	18-Mar-26	1	Revision of Unit-3			
28.	23-Mar-26	2	Functional Dependencies *Assignment 2 - Due on 30/03/2026			
29.	24-Mar-26	3	Non-Loss Decomposition, Normalization			
30.	25-Mar-26	1	First and Second Normal Form			
31.	28-Mar-26	1	Third Normal Form			
32.	30-Mar-26	2	Boyce- Codd Normal Form			
33.	31-Mar-26	3	Revision of Unit-4			

Signature :

Teacher Name :

Pooja Thakur

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

Lesson Planning

Branch : Computer Engineering

THEORY

Semester : 4

Subject : DBMS (Database Management Systems)

Session : Jun - 2026

Teacher : Pooja Thakur

Month : Apr-2026 (14)

Class Room : 601

Lect. No.	Date	Period	Topics Covered/ Activities Carried Out	Actual Coverage Date	Reason for Rescheduling (if any)	Signature with Date
34.	01-Apr-26	1	MySQL, Features of MySQL			
35.	04-Apr-26	1	Database Objects - Database, Table, View, Index			
36.	06-Apr-26	2	MySQL Object Naming, Keywords, User-defined Variables			
37.	07-Apr-26	3	Class Test - 2			
38.	08-Apr-26	1	Data Types - Numeric, Date and Time			
39.	13-Apr-26	2	Operators: Arithmetic, Logical, Relational, String			
40.	18-Apr-26	1	MySQL System Schema			
41.	20-Apr-26	2	MySQL Database Users and Roles			
42.	21-Apr-26	3	Database Privileges			
43.	22-Apr-26	1	Access Control and Account Management *Assignment 3 - Due on 29/04/2026			
44.	25-Apr-26	1	MySQL Server and MySQL Client			
45.	27-Apr-26	2	Revision of Unit-5			
46.	28-Apr-26	3	SQL, DDL Statements : CREATE, DROP, ALTER, RENAME			
47.	29-Apr-26	1	DML Statements: INSERT, UPDATE, DELETE, SELECT			

Signature :

Teacher Name :

Pooja Thakur

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MONTHLY REVIEW BY THE HEAD OF DEPARTMENT/ PRINCIPAL

Lesson Planning

Branch : Computer Engineering

THEORY

Semester : 4

Subject : DBMS (Database Management Systems)

Session : Jun - 2026

Teacher : Pooja Thakur

Month : May-2026 (13)

Class Room : 601

Lect. No.	Date	Period	Topics Covered/ Activities Carried Out	Actual Coverage Date	Reason for Rescheduling (if any)	Signature with Date
48.	02-May-26	1	SELECT Clauses - FROM, WHERE, ORDER BY, GROUP BY, HAVING			
49.	04-May-26	2	Join Operations - Inner, Left, Right and Outer Joins			
50.	05-May-26	3	Subqueries, Set Operations - Union, Intersect, Minus			
51.	11-May-26	2	GRANT and REVOKE Privileges			
52.	12-May-26	3	Transaction Statements - COMMIT, ROLLBACK, SAVEPOINT; Prepared Statements			
53.	13-May-26	1	SQL Functions - ABS, ROUND, FLOOR, CEIL			
54.	16-May-26	1	SQL Functions - SQRT, POWER, TRUNCATE, LOG, NOW, DATE, TIME			
55.	18-May-26	2	CURDATE, CURTIME, DAY, MONTH, YEAR, DATEDIFF, DATE_SUB			
56.	19-May-26	3	DATE_ADD, DATE_FORMAT, CONCAT, LENGTH, UPPER, LOWER			
57.	20-May-26	1	LEFT, RIGHT, LTRIM, RTRIM, MAX, MIN			
58.	23-May-26	1	SUM, AVG, COUNT, CAST, STR_TO_DATE			
59.	25-May-26	2	Revision of Unit-6			
60.	26-May-26	3	Revision of Important Topics			

Signature :

Teacher Name :

Pooja Thakur

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

Lesson Planning

Branch : Computer Engineering

PRACTICALS

Semester : 4

Subject : DBMS

Database Management Systems

Session : Aug - 2025

Teacher : Pooja Thakur

Group : 1 (20)

Lab : MML

SNo.	Date	Period	Pr. No.	Practical	Actual Date of Performance	Reason for Rescheduling (if any)	Signature with Date
1.	28-Jan-26	3	0	Orientation			
2.	31-Jan-26	3	1	To install and configure MySQL database server on Windows or Linux machines.			
3.	04-Feb-26	3	1	To install and configure MySQL database server on Windows or Linux machines.			
4.	07-Feb-26	3	2	To create database tables having columns with different data types, widths and precisions.			
5.	11-Feb-26	3	2	To create database tables having columns with different data types, widths and precisions.			
6.	18-Feb-26	3	V	Viva			
7.	21-Feb-26	3	3	To alter existing database tables using various queries.			
8.	25-Feb-26	3	3	To alter existing database tables using various queries.			
9.	28-Feb-26	3	4	To apply integrity constraints to the database tables.			
10.	07-Mar-26	3	4	To apply integrity constraints to the database tables.			
11.	11-Mar-26	3	V	Viva			
12.	18-Mar-26	3	5	To insert data in a table having columns of different data types (INSERT statement).			
13.	25-Mar-26	3	5	To insert data in a table having columns of different data types (INSERT statement).			
14.	28-Mar-26	3	6	To view the data stored in different tables using the SELECT statement.			
15.	01-Apr-26	3	6	To view the data stored in different tables using the SELECT statement.			
16.	04-Apr-26	3	V	Viva			
17.	08-Apr-26	3	7	To demonstrate join operation on tables using left, right and inner join.			
18.	18-Apr-26	3	7	To demonstrate join operation on tables using left, right and inner join.			
19.	22-Apr-26	3	8	To demonstrate at least 10 SQL row functions in queries.			
20.	25-Apr-26	3	8	To demonstrate at least 10 SQL row functions in queries.			

Signature :

Teacher Name :

Pooja Thakur

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MONTHLY REVIEW BY THE HEAD OF DEPARTMENT

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Page : 1

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

Lesson Planning

PRACTICALS

Database Management Systems

Group : 2 (20)

Semester : 4

Session : Aug - 2025

Lab : MML

Branch : Computer Engineering

Subject : DBMS

Teacher : Pooja Thakur

SNo.	Date	Period	Pr. No.	Practical	Actual Date of Performance	Reason for Rescheduling (if any)	Signature with Date
1.	27-Jan-26	5	O	Orientation			
2.	29-Jan-26	1	1	To install and configure MySQL database server on Windows or Linux machines.			
3.	03-Feb-26	5	1	To install and configure MySQL database server on Windows or Linux machines.			
4.	05-Feb-26	1	2	To create database tables having columns with different data types, widths and precisions.			
5.	10-Feb-26	5	2	To create database tables having columns with different data types, widths and precisions.			
6.	12-Feb-26	1	V	Viva			
7.	17-Feb-26	5	3	To alter existing database tables using various queries.			
8.	19-Feb-26	1	3	To alter existing database tables using various queries.			
9.	24-Feb-26	5	4	To apply integrity constraints to the database tables.			
10.	26-Feb-26	1	4	To apply integrity constraints to the database tables.			
11.	03-Mar-26	5	V	Viva			
12.	05-Mar-26	1	5	To insert data in a table having columns of different data types (INSERT statement).			
13.	10-Mar-26	5	5	To insert data in a table having columns of different data types (INSERT statement).			
14.	12-Mar-26	1	V	Viva			
15.	17-Mar-26	5	6	To view the data stored in different tables using the SELECT statement.			
16.	19-Mar-26	1	6	To view the data stored in different tables using the SELECT statement.			
17.	24-Mar-26	5	V	Viva			
18.	31-Mar-26	5	7	To demonstrate join operation on tables using left, right and inner join.			
19.	02-Apr-26	1	7	To demonstrate join operation on tables using left, right and inner join.			
20.	07-Apr-26	5	7	To demonstrate join operation on tables using left, right and inner join.			

Signature :

Teacher Name :

Pooja Thakur

HOD/PPL

MONTHLY REVIEW BY THE HEAD OF DEPARTMENT

H.O.D./PPL

Page : 1

Lesson Planning

THEORY

Session : Jun - 2026

Class Room : 601

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 : 04

Subject : IS (PE-I (Information Security))

Session : Jun - 2026

Teacher : Anjana Chaudhary

Month : Feb-2026 (16)

Class Room : 601

Lect. No.	Date	Period	Topics Covered/ Activities Carried Out	Actual Coverage Date	Reason for Rescheduling (if any)	Signature
4.	02-Feb-26	6	Malware - Worm, Virus, Trojan Horse			
5.	04-Feb-26	2	Bots & Botnets, Ransomware, Spyware			
6.	05-Feb-26	3	Keylogger, Spamming and Phishing			
7.	06-Feb-26	3	Security Features of Operating Systems - Authentication, Logs, Audit Features			
8.	09-Feb-26	6	File System Protection, User Privileges			
9.	11-Feb-26	2	RAID Options, Anti-Virus Software, OS Security Patches			
10.	12-Feb-26	3	Revision of Unit-1			
11.	13-Feb-26	3	Cryptography, Symmetric and Asymmetric Ciphers			
12.	16-Feb-26	6	Substitution Cipher, Caesar Cipher			
13.	18-Feb-26	2	Transposition Technique, Steganography			
14.	19-Feb-26	3	Stream and Block Ciphers (Introduction Only) *Assignment 1 - Due on 25/02/2026			
15.	20-Feb-26	3	Public Key Cryptography			
16.	23-Feb-26	6	Revision of Unit-2			
17.	25-Feb-26	2	NIST Definition of Computer Security			
18.	26-Feb-26	3	CIA Triad			
19.	27-Feb-26	3	NIST Framework for Cybersecurity			

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 : 64

Subject : IS (PE-I (Information Security))

Session : Jun - 2026

Teacher : Anjana Chaudhary

Month : Mar-2026 (15)

Class Room : 601

Lect. No.	Date	Period	Topics Covered/ Activities Carried Out	Actual Coverage Date	Reason for Rescheduling (if any)	Signature with Date
20.	02-Mar-26	6	Cybersecurity Framework Components			
21.	05-Mar-26	3	Framework Core - Functions			
22.	06-Mar-26	3	Framework Core - Categories, and Subcategories			
23.	09-Mar-26	6	Framework Implementation Tier			
24.	11-Mar-26	2	Class Test - 1			
25.	12-Mar-26	3	Revision of Unit-3			
26.	13-Mar-26	3	OSI Security Architecture			
27.	16-Mar-26	6	Definitions of Security Attack, Security Mechanism, Security Service			
28.	18-Mar-26	2	Threat and Attack; Active and Passive Attacks			
29.	19-Mar-26	3	Security Services *Assignment 2 - Due on 23/03/2026			
30.	20-Mar-26	3	Data Confidentiality, Data Integrity and Non-repudiation			
31.	23-Mar-26	6	Security Mechanisms - Encipherment, Digital Signature			
32.	25-Mar-26	2	Access Control, Data Integrity			
33.	27-Mar-26	3	Authentication Exchange, Traffic Padding			
34.	30-Mar-26	6	Routing Control and Notarization			

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 : 6th

Subject : IS (PE-I (Information Security))

Session : Jun - 2026

Teacher : Anjana Chaudhary

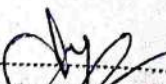
Month : Apr-2026 (16)

Class Room : 601

Lect. No.	Date	Period	Topics Covered/ Activities Carried Out	Actual Coverage Date	Reason for Rescheduling (if any)	Signature with Date
35.	01-Apr-26	2	Revision of Unit-4			
36.	02-Apr-26	3	Network Classification			
37.	06-Apr-26	6	Network Attacks Classification			
38.	08-Apr-26	2	Class Test - 2			
39.	09-Apr-26	3	Network Attacks : Password Stealing, Packet Sniffers, IP Spoofing			
40.	10-Apr-26	3	Denial-of-Service (DoS), Man-in-Middle, Session Hijacking			
41.	13-Apr-26	6	Security Weaknesses in Networks, Network Access Control			
42.	16-Apr-26	3	IEEE 802.1x, VLAN			
43.	17-Apr-26	3	Firewall, Extensible Authentication Protocol			
44.	20-Apr-26	6	Network Security Protocols - TLS, SSL, HTTPS			
45.	22-Apr-26	2	IPSec and SSH, Ingres Filtering			
46.	23-Apr-26	3	VPN, Firewalls			
47.	24-Apr-26	3	Internet Security Threats : Privacy Breach, DNS Spoofing			
48.	27-Apr-26	6	Email Spam, Cross-site Scripting (XSS)			
49.	29-Apr-26	2	Web Browser Security Settings : Cookies, Website Certificates			
50.	30-Apr-26	3	Browsing History, Plugins, Parental Control			

Signature :

Teacher Name :


Anjana Chaudhary


H.O.D./PPL

MONTHLY REVIEW BY THE HEAD OF DEPARTMENT/ PRINCIPAL

Lesson Planning

Branch : Computer Engineering

THEORY

Semester : 64

Subject : IS (PE-I (Information Security))

Session : Jun - 2026

Teacher : **Anjana Chaudhary**

Month : **May-2026** (10)

Class Room : 601

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Signature :

Teacher Name :

Anjana Chaudhary

H.O.D./PPL

MONTHLY REVIEW BY THE HEAD OF DEPARTMENT/ PRINCIPAL

H.O.D./PPL

Lesson Planning

Class Room : 601

MONTHLY REVIEW BY THE HEAD OF DEPARTMENT/ PRINCIPAL

Lesson Planning

THEORY

Session : Jun - 2026

Class Room : 601

Signature :

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

Branch : Computer Engineering

Subject : WC

PE-II (Wireless Communication)

Semester : 4

Session : Aug - 2025

Teacher : Arti Sharma

Group : 1 (20)

Lab : NWL

SNo.	Date	Period	Pr. No.	Practical	Actual Date of Performance	Reason for Rescheduling (if any)	Signature with Date
1.	29-Jan-26	1	1	To identify various wireless networking devices and to recognise physical topology in the lab.			
2.	02-Feb-26	3	1	To identify various wireless networking devices and to recognise physical topology in the lab.			
3.	05-Feb-26	1	1	To identify various wireless networking devices and to recognise physical topology in the lab.			
4.	09-Feb-26	3	V	Viva			
5.	12-Feb-26	1	2	To create WLAN of at least five wireless devices using any simulation tool (e.g. packettracer)			
6.	16-Feb-26	3	2	To create WLAN of at least five wireless devices using any simulation tool (e.g. packettracer)			
7.	19-Feb-26	1	2	To create WLAN of at least five wireless devices using any simulation tool (e.g. packettracer)			
8.	23-Feb-26	3	2	To create WLAN of at least five wireless devices using any simulation tool (e.g. packettracer)			
9.	26-Feb-26	1	2	To create WLAN of at least five wireless devices using any simulation tool (e.g. packettracer)			
10.	02-Mar-26	3	V	Viva			
11.	05-Mar-26	1	3	To setup a WLAN using access point.			
12.	09-Mar-26	3	3	To setup a WLAN using access point.			
13.	12-Mar-26	1	3	To setup a WLAN using access point.			
14.	16-Mar-26	3	3	To setup a WLAN using access point.			
15.	19-Mar-26	1	V	Viva			
16.	23-Mar-26	3	4	Data sharing using Bluetooth.			
17.	30-Mar-26	3	4	Data sharing using Bluetooth.			
18.	02-Apr-26	1	4	Data sharing using Bluetooth.			
19.	06-Apr-26	3	4	Data sharing using Bluetooth.			
20.	09-Apr-26	1	V	Viva			

Signature :

Teacher Name :

Arti Sharma

HOD/PPL

MONTHLY REVIEW BY THE HEAD OF DEPARTMENT

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

Lesson Planning

PRACTICALS

PE-II (Wireless Communication)

Semester : 4

Session : Aug - 2025

Lab : NWL

Branch : Computer Engineering

Subject : WC

Teacher : Arti Sharma

Group : 2 (20)

SNo.	Date	Period	Pr. No.	Practical	Actual Date of Performance	Reason for Rescheduling (if any)	Signature with Date
1.	27-Jan-26	1	1	To identify various wireless networking devices and to recognise physical topology in the lab.			
2.	31-Jan-26	3	1	To identify various wireless networking devices and to recognise physical topology in the lab.			
3.	03-Feb-26	1	1	To identify various wireless networking devices and to recognise physical topology in the lab.			
4.	07-Feb-26	3	V	Viva			
5.	10-Feb-26	1	2	To create WLAN of at least five wireless devices using any simulation tool (e.g. packettracer)			
6.	17-Feb-26	1	2	To create WLAN of at least five wireless devices using any simulation tool (e.g. packettracer)			
7.	21-Feb-26	3	2	To create WLAN of at least five wireless devices using any simulation tool (e.g. packettracer)			
8.	24-Feb-26	1	2	To create WLAN of at least five wireless devices using any simulation tool (e.g. packettracer)			
9.	28-Feb-26	3	2	To create WLAN of at least five wireless devices using any simulation tool (e.g. packettracer)			
10.	03-Mar-26	1	V	Viva			
11.	07-Mar-26	3	3	To setup a WLAN using access point.			
12.	10-Mar-26	1	3	To setup a WLAN using access point.			
13.	17-Mar-26	1	3	To setup a WLAN using access point.			
14.	24-Mar-26	1	3	To setup a WLAN using access point.			
15.	28-Mar-26	3	V	Viva			
16.	31-Mar-26	1	4	Data sharing using Bluetooth.			
17.	04-Apr-26	3	4	Data sharing using Bluetooth.			
18.	07-Apr-26	1	4	Data sharing using Bluetooth.			
19.	18-Apr-26	3	V	Viva			
20.	21-Apr-26	1	5	To transfer data between two wireless devices (e.g. PC-PC, PC-Smart phone)			

Signature :

Teacher Name :

Arti Sharma

HOD/PPL

MONTHLY REVIEW BY THE HEAD OF DEPARTMENT

Lesson Planning

Branch : Computer Engineering

THEORY

Semester : 4

Subject : EIKT (Essence of Indian Knowledge & Traditions)

Session : Jun - 2026

Teacher : **Madhu Dhiman**

Month : 1/1/2026 (01)

Class Room : 601

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Signature : _____

Teacher Name : Madhu Dhirman

H.O.D./PPL

MONTHLY REVIEW BY THE HEAD OF DEPARTMENT/ PRINCIPAL

Branch

C

THEORY

Semester : 4

Session : Jun - 2026

Month : 2/1/2026 (07)

Class Room : 601

1

Madhu Dhiman

H.O.D./PPL

MONTHLY REVIEW BY THE HEAD OF DEPARTMENT/ PRINCIPAL

026

Lesson Planning

THEORY

Semester : 4

Session : Jun - 2026

Month : 3/1/2026 (07)

Class Room : 601

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Madhu Dhiman

[Signature]

MONTHLY REVIEW BY THE HEAD OF DEPARTMENT/ PRINCIPAL

Lesson Planning

Branch : Computer Engineering

THEORY

Semester : 4

Subject : EIKT (Essence of Indian Knowledge & Traditions)

Session : Jun - 2026

Teacher : **Madhu Dhiman**

Month : 5/1/2026 (07)

Class Room : 601

[illegible]

Signature : 

Teacher Name : Madhu Dhlman

H.O.D./PPL

MONTHLY REVIEW BY THE HEAD OF DEPARTMENT/ PRINCIPAL