LESSON PLAN

Subject: Big Data and Pattern Recognition   **Subject code: MCA-20-41**

Semester: IV

S.No.	Topic	No. of Lectures	CO Covered	Teaching Methodology
1	Understanding Big Data: Concepts and Terminology	1	CO1	Board
2	Big Data Characteristics, Different Types of Data	1		**Board**
3	Identifying Data Characteristics, Business Motivations and Drivers for Big Data Adoption: Business Architecture	2		Board
4	Business Process Management, Information and Communication Technology	2		Board
5	Big Data Analytics Lifecycle	1		Board
6	Enterprise Technologies and Big Data Business Intelligence	1		Board
7	Industry examples of big data.	2		Board
9	Data Governance for Big Data Analytics: Evolution of Data Governance,	1	CO2	Board
10	Big Data and Data Governance,	1		Board
11	Big Datasets, Big Data Oversight,	1		Board
12	Big Data Tools and Techniques: HDFS,	1		Board
13	Map Reduce,	1		Board
14	YARN,	1		Board
15	Zookeeper,	1		Board
16	HBase,	1		Board

17	HIVE, Pig,	2		Board
18	Mahout, Developing Big Data Applications	2		Board
19	Stepwise Approach to Big Data Analysis,	2		Board
20	Big Data Failure: Failure is common, Failed Standards, Legalities	2		Board
21	Data Analysis and Pattern Recognition: Quantitative and Qualitative Analysis,	1	CO3	Board
22	Pattern Recognition Systems,	1		PPT
23	Fundamental Problems in Pattern Recognition,	2		PPT
24	Feature Extraction and Reduction, Paradigms, Pattern Recognition Approaches, Importance and Applications	2		Board
25	.Data Domain for Pattern Recognition.	1		Board
26	Pattern Recognition using Nearest Neighbour Classifier	2		Board
27	Modeling an AND Gate Neural Nets.	1		Board
28	An Overview of NoSQL, Characteristics of NoSQL, NoSQL Storage Types,	1		Board
29	Introduction of NoSQL Products, NoSQL Data Management for Big Data: Schema Less Models	1		Board
30	Key-Value Stores, Document Stores,	1		Board
31	Tabular Stores, Object Data Stores, Graph databases,	1	CO4	Board
32	NoSQL Misconceptions, NoSQL over RDBMS.	1		Board