

**Panipat Institute of Engineering & Technology**

**Department of CSE-AI & DS**

**LESSON PLAN**

**Subject:** Business Intelligence and Data Visualization

**Subject code:** HM-CS-AIDS-401A

**Semester:** 7<sup>th</sup>

SNo	Topic	CO Covered	Assignment No.	Teaching Methodology
1	An Overview of Business Intelligence	CO1	A1	PPT and Chalk Board
2	Analytics and Decision Support A Framework for Business Intelligence (BI).	CO1		PPT and Chalk Board
3	Intelligence Creation Use and BI Governance. Transaction Processing Versus Analytic Processing.	CO1		PPT and Chalk Board
4	Successful BI Implementation. Analytics Overview.	CO1		PPT and Chalk Board
5	Brief introduction to Big Data Analytics	CO1		PPT and Chalk Board
6	Data Warehousing Process Overview	CO2	A2	PPT and Chalk Board
7	Data Warehousing Architectures	CO2		PPT and Chalk Board
8	Data Integration and the Extraction, Transformation, and Load Processes.	CO2		Video Lect and Practical Task in the Class
9	Data Warehouse Development. Data Warehousing Implementation Issues.	CO2		PPT and Chalk Board
10	Data Warehouse Administration	CO2		PPT and Chalk Board
11	Security Issues and Future Trends	CO2		PPT and Chalk Board
12	Real-Time Data Warehousing.	CO2	PPT and Chalk Board	
13	<b>Big Data and Analytics:</b> Definition of Big Data. Big Data and Data Warehousing	CO3	A3	PPT and Chalk Board
14	Fundamentals of Big Data Analytics.	CO3		PPT and Chalk Board
15	Big Data Technologies. Data Scientist	CO3		PPT and Chalk Board
16	Big Data Vendors. Big Data and Stream Analytics	CO3		PPT and Chalk Board
17	Applications of Stream Analytics	CO3		PPT and Chalk Board
18	<b>Data Visualization:</b> Business Reporting.	CO4	A4	PPT and Chalk Board
19	Visual Analytics and Business Performance Management	CO4		PPT and Chalk Board
20	Business Reporting Definitions and Concepts.	CO4		PPT and Chalk Board
21	Data and Information Visualization.	CO4		PPT and Chalk Board

22	Different Types of Charts and Graphs	CO4		PPT and Chalk Board
23	The Emergence of Data Visualization and Visual Analytics.	CO4		PPT and Chalk Board
24	Business Performance Management. Performance Measurement.	CO4		PPT and Chalk Board
25	Performance Dashboards. Balanced Scorecards	CO4		PPT and Chalk Board
26	Six Sigma as a Performance Measurement System	CO4		PPT and Chalk Board
27-30	Business Intelligence Case Studies and small Project	CO1, CO2, CO3, CO4	Project	Presentation and Demo of Project