

Course: BTech Semester: 5

Prerequisite: Data analytics tools like PowerBI, Different techniques of visualization and data analytics | 203105251 - Database

Management System

**Rationale:** Data Analytics helps small and large organizations to maximize the value of their data, unearth insights, build plans and respond in real-time to customer demand.

## **Teaching and Examination Scheme**

Teaching Scheme					Examination Scheme						
Lecture	Tutorial	Lab		Credit	Int	ernal Ma	rks	External Marks		Total	
Hrs/Week	Hrs/Week	Hrs/Week	Hrs/Week	Credit	Т	CE	Р	Т	Р		
0	0	2	-	1	-	-	20	-	30	50	

SEE - Semester End Examination, CIA - Continuous Internal Assessment (It consists of Assignments/Seminars/Presentations/MCQ Tests, etc.)

## **Course Outcome**

## After Learning the Course the students shall be able to:

- 1. Apply statistical measures to calculate mean, median and mode.
- $2. \ Compare \ and \ apply \ different \ regression, \ classification \ algorithm \ on \ the \ given \ dataset \ .$
- 3. Perform clustering and detect outliers
- 4. Create an interactive data visualization dashboard using PowerBI.

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1.	Perform Exploratory Data Analysis on the given dataset using Python.				
2.	Calculate mean, median and mode of the first 50 records in the given dataset using python.				
3.	Perform Mu	ltiple Linear Regression on data.			
4.	Perform the	Logistic Regression on a dataset.			
5.	Use a dataset & apply K means clustering to get insights from data.				
6.	Perform the Decision tree classification algorithm using a dataset.				
7.	Study and in	stallation of the tools like PowerBI tool for data Visualization.			
8.	Load a datas	et from different sources in PowerBI and apply transformations to it.			
9.	Study and Plot various graphs for Data Visualization on PowerBI.				
10.	Given a case	study: Interactive Data Analytics with Power BI Dashboard.			

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