JAI PARKASH MUKAND LAL INSTITUTE OF ENGINEERING & TECHNOLOGY (JMIETI)
Department of Computer Applications

COURSE FILE

Lecture Plan : Foundation of Computers
Course Code : B23-CAP-102
Programme : BCA – 1st Semester
Session : 2025 – 26
Faculty Name : Mr. Mohit Kumar Vashistha
Designation : Assistant Professor
Department : BCA

Lesson Plan

Name of the Faculty:	Mr. Mohit Kumar
Discipline:	BCA
Semester:	3rd sem
Subject:	Data science using excel (B23-CAP-304)
Work Load(Lecture/Practical) per week(In hours):	Lecture-3

S. No	Lecture No.	Theory	
		Topic(Including Assignment/Test/Quiz)	**Pedagogy (PPT/Chalk and Board/Video Recording /Activity/Case Study)**
1.	L1.	Introduction to data science	Chalk and Board
2.	L2.	Overview of excel	Chalk and Board
3.	L3.	Data type and formats in excel	Chalk and Board
4.	L4.	Basic data manipulation	Chalk and Board
5.	L5.	Basic formulas	Chalk and Board
6.	L6.	Data impoet and export	Chalk and Board
7.	L7.	Csv,txt and excel files	Chalk and Board
8.	L8.	Data cleaning techniques	Chalk and Board
9.	L9.	Handling missing values	Chalk and Board
10.	L10.	Duplicates and error	Chalk and Board
11.	L11.	Data transformation	Chalk and Board
12.	L12.	Data visualization	Chalk and Board
13.	L13.	Customizing charts	Chalk and Board
14.		**Assignment1**	On Paper
15.	L14.	Bar, line ,pie chart	Chalk and Board

16.	L15.	Descriptive statics	Chalk and Board
17.	L16.	Mean	Chalk and Board
18.	L17.	Mode	Chalk and Board
19.	L18.	Median	Chalk and Board
20.	L19.	Standard deviation	Chalk and Board
21.	L20.	variance	Chalk and Board
22.	L21.	Inferential statics	Chalk and Board
23.	L22.	Hypothesis testing	Chalk and Board
24.	L23.	t- test	Chalk and Board
25.	L24.	Chi-square test	Chalk and Board
26.	L25.	Regression analysis	Chalk and Board
27.	L26.	Simple linear regression	Chalk and Board
28.	L27.	Multiple regression	Chalk and Board
29.		**Assignment2**	On Paper
30.	L28.	Predictive modeling	Chalk and Board
31.	L29.	Implementation of predictive modeling	Chalk and Board
32.	L30.	Advanced excel function	Chalk and Board
33.	L31.	VLOOKUP	Chalk and Board
34.	L32.	HLOOKUP	Chalk and Board
35.	L33.	INDEX-MATCH	Chalk and Board
36.	L34.	Pivot table	Chalk and Board
37.	L35.	Data analysis toolpak	Chalk and Board
38.	L36.	Histogram	Chalk and Board

39.	L37.	Correlation	Chalk and Board
40.	L38.	Regression	Chalk and Board
41.	L39.	What if analysis tools	Chalk and Board