ANAND SUMMER SCHOOL

Course Name: "Introduction of Data Analysis"

Mentor: (with photo)

1. **Name: Prof. Bhavana Mathur**   **Experience: 19+ years**
2. **Name: Mr. Ravi Prakash Sharma**   **Experience: 10+ years**
3. **Name: Mr. Sourabh Jain**   **Experience: 8+ years**

Objective & Details: Data analysis is the process of assigning meaning to the collected information and determining the conclusions, significance, and implications of the findings. Data analysis is important in research as it helps the researchers straightforwardly interpret the data to derive insights from it.

Outcomes of the Courses: Through this course students will develop the ability to build and assess data-based models. Students will execute statistical analyses with professional statistical software. Students will demonstrate skill in data management.

Weekly Activities:

Week 1

1. Introduction to Data Analysis and its importance, Introduction and scope of MS-Excel
2. Basic Command and tools of MS-Excel (Formats, Insert, Page Layout, Page setup, Formulas, Print Etc.)
3. Advance tools of MS-Excel (VLOOKUP, HLOOKUP Etc.)
4. Practice session
5. Basic introduction and Scope of Data Handling

Week 2

1. Types of Charts used in excel based on application (Column, Bar, Histogram, Line, Area, Pie, Scatter Etc.)

2. Central Tendency, Mean, Mode, Median used in MS-Excel.

3. Statistical and Exploratory data Analysis

4. Correlation, Regression Analysis, ANOVA

5. Quiz