**Statistics**

**Title:** Statistics – Course Overview  
**Duration:** 3 Months

**Course Description:**   
This course equips students with skills to collect, analyze, interpret, and present data, forming a base for research and data-driven careers.

**Topics Covered:**

* Types of data and data collection methods
* Measures of central tendency: mean, median, mode
* Measures of dispersion: range, variance, standard deviation
* Introduction to probability and probability distributions
* Graphical representation: histograms, bar charts, pie charts
* Correlation and regression analysis
* Sampling and bias
* Hypothesis testing basics (optional for advanced students)

**Learning Outcomes:**

* Understand and describe data sets effectively
* Apply basic probability to everyday scenarios
* Make informed decisions based on statistical evidence