

ALVA'S COLLEGE (AUTONOMOUS), MOODUBIDRE.

DEPARTMENT OF UG STATISTICS

CURRICULUM STRUCTURE

Core Areas of Study

- **Mathematical Foundations:**
 - Calculus
 - Linear Algebra
 - Probability Theory
- **Statistical Foundations:**
 - Descriptive Statistics
 - Inferential Statistics
 - Regression Analysis
 - Sampling Techniques
- **Applied Statistics:**
 - Time Series Analysis
 - Multivariate Analysis
 - Non-parametric Statistics
- **Programming and Data Analysis:**
 - Introduction to Programming (Python/R/SPSS)
 - Data Wrangling and Visualization
 - Big Data and Machine Learning Basics
- **Advanced Topics:**
 - Bayesian Statistics
 - Statistical Computing
 - Design of Experiments

Capstone Projects and Internships

- Collaborations with industries, government organizations, and NGOs.
- Hands-on projects solving real-world problems using statistical tools.