Code	Subject Title	Cr. Hrs	Semester
BBA-410	**Statistics (Advanced)**	**3**	**VIII**
Year	Discipline		
4	**Business Administration**		

Objectives:

Course Objective:
This course is a continuation of statistics-l. Statistical techniques and their applications are studied in greater detail in this part. The main objective is to work with real life examples and exercises drawn from a range of business area.

Course Contents:

Interval Estimation:

Estimation and interpretation of a confidence interval. CI for population mean and population proportion. Boots trap method.

Hypothesis Testing:
Classified theory. Hypothesis testing using confidence interval. Classical hypothesis testing and its difficulties. Type 1 and type II errors.

Analysis of Variance:
Anova as a useful tool. Simultaneous interval, distribution and f- test. One way Anova two way Anova.

Least Square:
Methodology and technicalities of fitting a straight line to a scatter plot.

Simple Regression:
Simple regression mode. Use of confidence interval and justifying use of straight line under least square. Sampling variability.

Correlation:
Simple correlation and regression. Correlation in multiple regression and multi -co linearity.

Goodness of Fit:
Use of confidence interval in "Chi-square tests and null hypothesis chi-square tests for multinomial and independence.

Recommended Books: