

Course No.	Course Title	Theory	Practice	Credit	Prerequisite(s)
Stat 241	Statistical packages and Research Methods	1	2	2	Stat110, CPCS 202

Objectives

The goal of this course is to provide the students with skills of handling and analyzing the statistical data in different research areas through developing certain fundamental Knowledge and skills of Statistical research stages, assumptions, methodologies and decision making. This will be done by application on statistical packages.

Course Description:

- Theoretical concepts including: Statistical research stages, assumptions, population, types of random sampling and sample size, types of questions, types of variables, measurement levels and coding.
- Handling statistical data by using a statistical program such as SAS, Minitab, or SPSS. This includes to show students entering data, different files, saving files, opening files, invoking the program and its uses in descriptive statistics, graphical representation, different probability distributions, sampling techniques, generating random and patterned numbers, confidence intervals, testing hypotheses, correlation, regression, ANOVA and chi-square tests.

Main text books :

Designing and conducting survey research, A comprehensive guide. Louis M. Rea and Richard A. Parker. Jessey-Bass publisher. Second Edition.

Subsidiary books :

د. عبد الحميد البلداوي (2005). أساليب البحث العلمي والتحليل الإحصائي . الطبعة الأولى، دار الشروق.