

**Form (H)**  
**Short course description**

Course title: Statistical Packages	Course number and code: stat 328
Previous course requirement: STAT105 +111 CSC	Language of the course: English
Course level: 4 / Year 2	Effective hours: 3(2+0+2)

Course description

Using the statistical tools and the program codes in the statistical software packages, including Excel, Minitab, SPSS and R. Topics include creating and managing data files, graphical presentation – summary statistics, hypotheses testing, regression and correlation analysis, ANOVA and Monte Carlo simulation

Course objectives

To familiarize students with basic Statistical packages such as EXCEL, MINITAB, SPSS and R.

To illustrate the importance of the Statistical packages and how to use it to calculate several statistical computations.

To study the properties of each package, show the statistical tools and the differences between them.

To illustrate how to use each package for analyzing different data sets and explain how can interpret the results and write the statistical reports

Learning outcomes (understanding, knowledge, and intellectual and scientific skills)  
After studying this course, the student is expected to be able to:

The use of the statistical packages in data analysis.

comparing between the different packages in analyzing a given set of data

Writing the statistical reports

Work independently and as part of team

Use the computer for analyzing and processing the real data sets

Textbook adopted and supporting references

Title of the book	Author's name	Publisher's name	Date of publication
Minitab Cookbook	Isaac Newton	Packt Publishing	(2014) or Latest version
A handbook of statistical analyses using SPSS	Sabine Landau and Brian S. Everitt	CHAPMAN & HALL/CRC	(2004) or Latest version
<i>Excel Data Analysis: Modeling and Simulation.</i>	Hector Guerrero	Springer	(2010) or Latest version
<i>Beginner's Guide to R, Springer. Latest version</i>	Alain F. Zuur Elena N. Ieno Erik H.W.G. Meesters. A	Springer	(2009) or Latest version