

BMUH 518 Statistical Computing

Course Code:	BMUH 518
UTAA Credit (Theoretical-Laboratory hours/week):	3(3-0)
ECTS Credit:	6.0
Department:	Electrical and Computer Engineering
Language of Instruction:	English
Level of Study:	Graduate
Offered Semester:	Fall and Spring Semesters.

Course Objectives

The objective of statistical computing is to learn how to use Matlab statistical tools to analyze data in tables or in questionnaires, to interpret the obtained results and to use graphics to explore and understand data

Course Content

Data and scale types, descriptive statistics, discrete and continuous distributions, correlation analysis, T-Tests, analysis of variance, cluster analysis, plotting and visualization

Course Learning Outcomes

- 1-Distinguish between different types of data and scales. Questionnaire analysis.
- 2-Use Matlab to perform statistical analysis.
- 3-Determine the relations between data.
- 4-Interpret the results obtained by statistical methods.
- 5-Use plots to visualize the results of statistical methods