

TOROS ÜNİVERSİTESİ

Faculty Of Engineering
Electrical And Electronics Engineering (English)

Course Information

ENGINEERING STATISTICS					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
MAT311	Fall	3	0	3	5

Prerequisites and co-requisites	
Language of instruction	English
Type	Elective
Level of Course	Bachelor's
Lecturer	Prof. Dr. Adnan MAZMANOĞLU
Mode of Delivery	Face to Face
Suggested Subject	
Professional practise (internship)	None
Objectives of the Course	Offering Probability and Statistics Basis, To gain basic knowledge and skills about the use of statistical methods in science and engineering
Contents of the Course	Introduction, Frequency Analysis Probability, Probability Distributions, Sampling Distributions, Hypothesis Testing, Regression Analysis

Learning Outcomes of Course

#	Learning Outcomes
1	Analyzing statistical significance in engineering.
2	Determine the statistical method appropriate to the situation
3	Apply the statistical method determined
4	Ability to edit existing data

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Definition and Development of Statistic, Place and Priority in Civil Engineering	Lecture
2	Basic Concepts and Definitions	Lecture
3	Probability and Distributions	Lecture
4	Frequency Analysis	Lecture
5	Estimation of Parameters	Lecture
6	Important Probability Distribution Functions	Lecture
7	Midterm exam	
8	Extreme Value Distributions	Lecture
9	Extreme Value Distributions and Numerical Applications	Lecture
10	Sampling Distributions	Lecture
11	Control of Statistical Hypotheses	Lecture
12	Regresyon Analizi	Lecture

13	Variance Analysis	Lecture
14	Computer applications	Lecture
15	Computer applications	Lecture
16	Final Exam	

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	Mühendisler için İstatistik Mehmetçik Bayazıt, Beyhan Oğuz Birsen Yayınevi		

Method of Assessment

#	Weight	Work Type	Work Title
1	40%	Mid-Term Exam	Mid-Term Exam
2	60%	Final Exam	Final Exam

Relationship between Learning Outcomes of Course and Program Outcomes

#	Learning Outcomes	Program Outcomes	Method of Assessment
1	Analyzing statistical significance in engineering.	1	1,2
2	Determine the statistical method appropriate to the situation	1	1,2
3	Apply the statistical method determined	1	1,2
4	Ability to edit existing data	1	1,2

PS. The numbers, which are shown in the column Method of Assessment, presents the methods shown in the previous table, titled as Method of Assessment.

Work Load Details

#	Type of Work	Quantity	Time (Hour)	Work Load
1	Course Duration	14	3	42
2	Course Duration Except Class (Preliminary Study, Enhancement)	14	4	56
3	Presentation and Seminar Preparation	0	0	0
4	Web Research, Library and Archival Work	0	0	0
5	Document/Information Listing	0	0	0
6	Workshop	0	0	0
7	Preparation for Midterm Exam	1	8	8
8	Midterm Exam	1	2	2
9	Quiz	0	0	0
10	Homework	0	0	0
11	Midterm Project	0	0	0
12	Midterm Exercise	0	0	0
13	Final Project	0	0	0
14	Final Exercise	0	0	0
15	Preparation for Final Exam	1	15	15
16	Final Exam	1	2	2
				125

