

TOROS ÜNİVERSİTESİ

Faculty Of Economic, Administrative And Social Sciences
International Finance (English)

Course Information

MATHEMATICS II					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
MAT104	Spring	3	0	3	

Prerequisites and co-requisites	
Language of instruction	English
Type	Required
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	The aim of the course is to provide students with basic concepts of probability and to build the basis for the insurance and risk management classes.
Contents of the Course	

Learning Outcomes of Course

#	Learning Outcomes
1	Understand probability concepts and definitions.
2	Learn probability distributions and their differences
3	Understand conditional probability and the indepenence of two events
4	Learn statistical distributions used in the insurance industry.

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Definitions of probability concepts	
2	Introduction to probability -1	
3	Introduction to probability -2	
4	Conditional probability	
5	Independence of two events, random variables and distributions	
6	Discrete random variables and distributions	
7	Discrete random variables and distributions	
8	Midterm	
9	Continuous random variables and distributions	
10	Continuous random variables and distributions	
11	Continuous random variables and distributions	
12	Integration under curve	
13	Integration under curve	

14	Expected value and moments	
15	Conclusion and Wrap up	
16	Final Exam	

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	Ross, S. M. A first course in probability, 9th edition, Pearson, 2012		

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	Understand probability concepts and definitions.		
2	Learn probability distributions and their differences		
3	Understand conditional probability and the indepenence of two events	5	
4	Learn statistical distributions used in the insurance industry.		

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	3	42
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	14	14
8	Midterm Exam	1	3	3
9	Quiz	0	0	0
10	Homework	2	9	18
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	27	27
16	Final Exam	1	4	4
				150