

**TURKISH-GERMAN UNIVERSITY
INSTITUTE OF SOCIAL SCIENCES
INTERNATIONAL FINANCE PROGRAM**

COURSE SYLLABUS FORM

Course Information				
Course Unit Title	Financial Modelling			
Course Unit Code	Semester	Regular Cycle	T+A+L Hour	ECTS
IF003	1	2	2+0+0	6

Course Language	English					
Course Level	Undergraduate		Graduate	x	Postgraduate	
Department / Program	International Finance					
Types of Education	Face-to-Face					
Course Type	Compulsory		Elective		x	
Objectives of the Course	The financial modeling course aims to support students' financial theory knowledge with practical applications. Students will be examined under three main topics by using Excel applications, which they will frequently encounter in this course in daily life.					
Course Content	Corporate Finance, Money Value, Bonds, Duration Analysis, Capital, Portfolio and Option Theories, Risky Investment					
Prerequisite						
Course Coordinator						
Name of Lecturers						
Course Assistants						
Work Placement(s)						

Recommended or Required Reading	
Text Book(s) / Lecture Notes	Quantative Methods for Finance, Terry Washam and Keith Parramore, 1996
Other Sources	

Material Sharing

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Documents	Lecture Notes
Assignments	Homeworks
Exams	Midterm and Final

Course Category	
Mathematics and Basic Sciences	%
Engineering	%
Engineering Design	%
Social Sciences	%100
Educational Sciences	%
Science	%
Health Sciences	%
Field Knowledge	%

Assessment Criteria		
Semester Works	Quantity	Percentage %
Midterm Exam	1	%20
Quiz		%
Assignment	5	%20
Attendance		%
Application		%
Project		%
Final examination	1	%60
Total	7	%100

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ECTS / Table for Student Working Load			
Activities	Quantity	Duration (Hour)	Total Work Load (Hour)
Course Duration	14	2	28
Self-Study Hours			
Assignment	5	10	50
Presentation / Seminar Preparation			
Midterm exams	1	42	42
Application			
Laboratory			
Project			
Final examination	1	60	60
Total Work Load(Hour)		180	
Total Work Load(Hour)/ 30 (h)		6	
ECTS Credit of the Course		6	

Learning Outcomes of the Course	
No.	Learning Outcomes
1	Identify and compare risk
2	Understanding derivative financial products
3	Understanding the differences between factoring and forfaiting
4	
5	

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Course Content			
Week	Topic	Preparation	Documents
1	Corporate Finance Models		
2	Time Value of Money and Net Present Value (PV and NPV)		
3	Internal Rate of Return (IRR)		
4	Amortization Tables (Loan Tables and Retirement Problems)		
5	Bond Valuation (Bond Prices, Yields)		
6	Duration, Convexity		
7	Financial Assets Pricing Model (FVFM-CAPM)		
8	Financial Assets Pricing Model (FVFM-CAPM)		
9	Cost of Capital (Cost Of Capital, WACC)		
10	Investment Project Analysis Models (Investment Project Analysis)		
11	Risky Investment Projects Valuation Models (Venture Capital)		
12	Portfolio Theory and Models		
13	Portfolio Theory and Models		
14	Option Pricing Models		

Matrix of Course Learning Outcomes versus Program Outcomes											
	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
ALL	5	2	2	3	3	3	5	4	3	3	
L1	5	2	2	3	3	3	5	4	3	3	
L2	5	3	2	3	3	3	5	3	2	3	
L3	5	2	2	3	2	3	5	4	2	3	

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L4												
L5												

Contribution Level: 1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High

Prepared by:

Date of Issue:

13.03.2020