

## M.A. PROGRAM IN BUSINESS MANAGEMENT (WITH THESIS) COURSE SYLLABUS FORM

Course Details										
Code						ar	Semester			
BM070							Elective			
Title						L	ECTS			
Simulation Techniques in Business						0	6			
Language	English									
Level	Undergraduate		Graduate X Postgraduate							
Department / Program	Business Manageme	ent								
Forms of Teaching and Learning	Face to face									
Course Type	Compulsory		Elective X							
Objectives	The aim of this course is to provide students with the ability to analyze and interpret simulation models by building them.									
Content	The concept of simulation, statistical information required to create a simulation model, probability theory, discrete and continuous probability distributions, random number and variable generation, random event simulation with spreadsheets, simulation application examples									
Prerequisites	-									
Coordinator	Asst. Prof. Dr. Mehmet Hakan ÖZDEMİR									
Lecturer(s)	-									
Assistant(s)	-									
Work Placement	-									
Recommended or Required Reading										
Books / Lecture Notes	<ul> <li>Winston, W. L., Albright, S. C., Practical Management Science Sixth Edition, 2017, Cengage</li> <li>Esen, H. Ö., Yöneticiler için Bilgisayar Destekli Karar Modelleri, 2008, Çağlayan Kitabevi</li> <li>Ayvaz, B., Kuşakçı, A. O., Borat, O., Excel, Matlab, Arena ve Simulink Uygulamalarıyla Sistem Benzetimi, 2017, Nobel Akademik Yayıncılık</li> <li>Winston, W. L., Microsoft Excel 2013: Data Analysis and Business Modeling, 2014, Microsoft</li> </ul>									
Other Sources	-									
Additional Course Material										
Documents	-									
Assignments	-									
Exams	-									
Course Composition										
Mathematics und Basic							40%			



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		COURSE SYLL	ABUSFURM			
Sciences						
Engineering			%			
Engineering De	sign		%			
Social Sciences			20%			
Educational Sci	ences		%			
Natural Science	<b>!</b> S			%		
Health Sciences	5			%		
Expert Knowled	lge	40%				
Assessment						
Acti	ivity	Cou	nt	Percentage (%)		
Midterm Exam		1		40		
Quiz						
Assignments						
Attendance						
Recitations						
Projects						
Final Exam		1	60			
	100					
ECTS Points ar	nd Work Load					
Acti	ivity	Count	Duration	Work Load (Hours)		
Lectures		14	3	42		
Self-Study		14	14 3			
Assignments						
Presentation / S Preparation	Seminar					
Midterm Exam		1	48	48		
Recitations						
Laboratory						
Projects						
Final Exam		1	48	48		
		I	Total Work Load	180		
		FCTS Do	ints (Total Work Load / Hour)	h h		
		ECTS Po	ints (Total Work Load / Hour)	6		
Learning Outc			ints (Total Work Load / Hour)	6		
Learning Outc	Students can c	lefine the concept of simulation.		6		
-	Students can c			6		



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2 5	Statistic	al inforr		ges of sim	nulation									
1	Statistic	al inforr		ges of sim	nulation									
2 5	Statistic	al inforr			The concept and the stages of simulation									
				Statistical information required to create a simulation model										
		Probability theory												
	Discrete and continuous probability distributions													
	Random number and variable generation													
	Random event simulation with spreadsheets													
7 5	Simulation application examples													
8 9	Simulation application examples													
9	Mid-term exam													
10 5	Simulation application examples													
11 5	Simulati	Simulation application examples												
12	Simulati	imulation application examples												
13	Simulation application examples													
14 5	Simulation application examples													
15	Simulation application examples													
Contribution of L					n Obiect	ives (1-	-5)							
	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	
1	4	5	5	5	5	5	5	4	4	5	5	5	5	
2	4	5	5	5	5	5	5	4	4	5	5	5	5	
3	4	5	5	5	5	5	5	4	4	5	5	5	5	
4	4	5	5	5	5	5	5	4	4	5	5	5	5	
Contribution Level		1	: Low 2: L	ow-inter.	mediate	3: Intern	nediate 4	: High 5:	Very Hig	<u></u> gh				
Compiled by:	Asst. Prof. Dr. Mehmet Hakan ÖZDEMİR (Head of Sub-Department Quantitative Methods)								;)					
Date of Compilatio	ilation: 04.06.2020													