

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

Course Details					
<b>Code</b>				<b>Academic Year</b>	<b>Semester</b>
BM064				1	Elective
<b>Title</b>	<b>T</b>	<b>A</b>	<b>L</b>	<b>ECTS</b>	
Multivariate Statistics	3	0	0	6	
<b>Language</b>	English				
<b>Level</b>	<b>Undergraduate</b>		<b>Graduate</b>	<b>X</b>	<b>Postgraduate</b>
<b>Department / Program</b>	Business Management				
<b>Forms of Teaching and Learning</b>	Face to face				
<b>Course Type</b>	<b>Compulsory</b>		<b>Elective</b>	<b>X</b>	
<b>Objectives</b>	The aim of this course is to make students familiar with various multivariate statistical methods.				
<b>Content</b>	Introduction to multivariate statistical methods, assumptions of multivariate statistical methods, multivariate regression and correlation analysis, logistic regression analysis, discriminant analysis, canonical correlation analysis, multivariate variance analysis, multivariate covariance analysis, factor analysis, cluster analysis, correspondence analysis				
<b>Prerequisites</b>	-				
<b>Coordinator</b>	Asst. Prof. Dr. Mehmet Hakan ÖZDEMİR				
<b>Lecturer(s)</b>	-				
<b>Assistant(s)</b>	-				
<b>Work Placement</b>	-				
Recommended or Required Reading					
<b>Books / Lecture Notes</b>	<ul style="list-style-type: none"> <li>- Orhunbilge, N., Çok Değişkenli İstatistik Yöntemler, 2010, İstanbul Üniversitesi Yayınları</li> <li>- Alpar, R., Uygulamalı Çok Değişkenli İstatistiksel Yöntemler, 2013, Detay Yayıncılık</li> </ul>				
<b>Other Sources</b>	-				
Additional Course Material					
<b>Documents</b>	-				
<b>Assignments</b>	-				
<b>Exams</b>	-				
Course Composition					
<b>Mathematics und Basic Sciences</b>				50%	
<b>Engineering</b>				%	
<b>Engineering Design</b>				%	
<b>Social Sciences</b>				20%	

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Educational Sciences			%
Natural Sciences			%
Health Sciences			%
Expert Knowledge			30%
<b>Assessment</b>			
<b>Activity</b>	<b>Count</b>		<b>Percentage (%)</b>
Midterm Exam	1		40
Quiz			
Assignments			
Attendance			
Recitations			
Projects			
Final Exam	1		60
		<b>Total</b>	<b>100</b>
<b>ECTS Points and Work Load</b>			
<b>Activity</b>	<b>Count</b>	<b>Duration</b>	<b>Work Load (Hours)</b>
Lectures	14	3	42
Self-Study	14	3	42
Assignments			
Presentation / Seminar Preparation			
Midterm Exam	1	48	48
Recitations			
Laboratory			
Projects			
Final Exam	1	48	48
		<b>Total Work Load</b>	<b>180</b>
		<b>ECTS Points (Total Work Load / Hour)</b>	<b>6</b>
<b>Learning Outcomes</b>			
1	Students can make multivariate regression and correlation analysis.		
2	Students can make logistic regression analysis.		
3	Students can make discriminant analysis.		
4	Students can make canonical correlation analysis.		
5	Students can make multivariate analysis of variance.		
6	Students can make multivariate covariance analysis.		
7	Students can make factor analysis.		

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8	Students can make cluster analysis.												
9	Students can make correspondence analysis.												
<b>Weekly Content</b>													
1	Introduction to multivariate statistical methods												
2	Assumptions of multivariate statistical methods												
3	Multivariate regression and correlation analysis												
4	Multivariate regression and correlation analysis												
5	Multivariate regression and correlation analysis												
6	Logistic regression analysis												
7	Discriminant analysis												
8	Canonical correlation analysis												
9	Mid-term exam												
10	Multivariate analysis of variance												
11	Multivariate covariance analysis												
12	Factor analysis												
13	Factor analysis												
14	Cluster analysis												
15	Correspondence analysis												
<b>Contribution of Learning Outcomes to Program Objectives (1-5)</b>													
	<b>P1</b>	<b>P2</b>	<b>P3</b>	<b>P4</b>	<b>P5</b>	<b>P6</b>	<b>P7</b>	<b>P8</b>	<b>P9</b>	<b>P10</b>	<b>P11</b>	<b>P12</b>	<b>P13</b>
1	4	5	5	5	5	4	5	4	3	4	5	5	5
2	4	5	5	5	5	4	5	4	3	4	5	5	5
3	4	5	5	5	5	4	5	4	3	4	5	5	5
4	4	5	5	5	5	4	5	4	3	4	5	5	5
5	4	5	5	5	5	4	5	4	3	4	5	5	5
6	4	5	5	5	5	4	5	4	3	4	5	5	5
7	4	5	5	5	5	4	5	4	3	4	5	5	5
8	4	5	5	5	5	4	5	4	3	4	5	5	5
9	4	5	5	5	5	4	5	4	3	4	5	5	5
<b>Contribution Level</b>		1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High											
<b>Compiled by:</b>		Asst. Prof. Dr. Mehmet Hakan ÖZDEMİR (Head of Sub-Department Quantitative Methods)											
<b>Date of Compilation:</b>		04.06.2020											