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

Course Details				
Code	**Academic Year**			**Semester**
BM066	1			Elective
Title	**T**	**A**	**L**	**ECTS**
Computer-Aided Statistics	3	0	0	6

Language	English					
Level	**Undergraduate**		**Graduate**	**X**	**Postgraduate**	
Department / Program	Business Management					
Forms of Teaching and Learning	Face to face					
Course Type	**Compulsory**		**Elective**	**X**		
Objectives	The aim of this course is to enable students to gain the ability to apply their statistical information on computer.					
Content	R and RStudio installation, data structures, matrices, arrays, lists, working with data, reading CVS and Excel files, reading text files, control statements and functions, descriptive statistics, data visualization, discrete and continuous probability distributions, parametric tests, variance analysis, nonparametric tests, nonparametric variance analysis, categorical data analysis, correlation analysis, regression analysis					
Prerequisites	-					
Coordinator	Asst. Prof. Dr. Mehmet Hakan ÖZDEMİR					
Lecturer(s)	-					
Assistant(s)	-					
Work Placement	-					

Recommended or Required Reading	
Books / Lecture Notes	- Demir, İ., R ile Uygulamalı İstatistik, 2017, Papatya Yayıncılık Eğitim - Arslan, İ., R ile İstatistiksel Programlama, 2017, Pusula Yayıncılık
Other Sources	-

Additional Course Material	
Documents	-
Assignments	-
Exams	-

Course Composition		
Mathematics und Basic Sciences		50%
Engineering		%
Engineering Design		%
Social Sciences		20%

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Educational Sciences		%
Natural Sciences		%
Health Sciences		%
Expert Knowledge		30%

Assessment

Activity	Count	Percentage (%)
Midterm Exam	1	40
Quiz		
Assignments		
Attendance		
Recitations		
Projects		
Final Exam	1	60
	Total	**100**

ECTS Points and Work Load

Activity	Count	Duration	Work Load (Hours)
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
		Total Work Load	**180**
		ECTS Points (Total Work Load / Hour)	**6**

Learning Outcomes

1	Students can use R and RStudio programs.
2	Students can visualize data in computer environment.
3	Students can perform parametric and nonparametric tests in computer environment.
4	Students can make analysis of variance in computer environment.
5	Students can make regression and correlation analysis in computer environment.

Weekly Content

1	R and RStudio installation and general introduction to these programs

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2	Data structures, matrices, arrays, lists
3	Working with data, reading CVS and Excel files, reading text files
4	Control statements and functions
5	Descriptive statistics
6	Data visualization
7	Applications related to discrete and continuous probability distributions
8	Parametric tests
9	Mid-term exam
10	Variance analysis
11	Nonparametric tests
12	Nonparametric variance analysis
13	Categorical data analysis
14	Correlation analysis
15	Regression analysis

Contribution of Learning Outcomes to Program Objectives (1-5)

	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13
1	4	5	5	5	5	5	5	4	5	5	5	5	5
2	4	5	5	5	5	5	5	4	5	5	5	5	5
3	4	5	5	5	5	5	5	4	5	5	5	5	5
4	4	5	5	5	5	5	5	4	5	5	5	5	5
5	4	5	5	5	5	5	5	4	5	5	5	5	5

Contribution Level	1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High
Compiled by:	Asst. Prof. Dr. Mehmet Hakan ÖZDEMİR (Head of Sub-Department Quantitative Methods)
Date of Compilation:	04.06.2020