

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

Course Details									
Code					emic \	Year	Semes	Semester	
BM050							Elective		
Title					Α	L	ECTS		
Data Analytics and Big Data					0	0	6		
Language	English								
Level	Undergraduate	Undergraduate Graduate X Post							
Department / Program	Business Manager	ment							
Forms of Teaching and Learning	Face to face								
Course Type	Compulsory	Elective X							
Objectives	Imparting basic knowledge about Big Data and Data Analytics and raising awareness about the corporate use and benefits of this technology								
Content	Storage, management and analysis of Big Data and corporate use of Big Data								
Prerequisites	-								
Coordinator	Assoc. Prof. Dr. Müge KLEIN								
Lecturer(s)	-								
Assistant(s)	-								
Work Placement	-								
Recommended or Required Re	eading								
Books / Lecture Notes	-								
Other Sources	 Bahga, A., & Madisetti, V. (2016). Big data science & analytics: A hands-on approach. VPT. Provost, F., & Fawcett, T. (2013). Data Science for Business: What you need to know about data mining and data-analytic thinking. "O'Reilly Media, Inc.". 								
Additional Course Material									
Documents	-								
Assignments	-								
Exams	-								
Course Composition									
Mathematics und Basic Sciences							50%		
Engineering							%		
Engineering Design							%		
Social Sciences							30%		
Educational Sciences							%		



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Natural Sciences				%					
Health Sciences			%						
Expert Knowledge	!		20%						
Assessment									
Activi	ty	Cor	Percentage (%)						
Midterm Exam		-	1	40					
Quiz									
Assignments									
Attendance									
Recitations									
Projects									
Final Exam		-	60						
			Total	100					
ECTS Points and Work Load									
Activi	ty	Count	Duration	Work Load (Hours)					
Lectures		14	3	42					
Self-Study		14	3	42					
Assignments		1	12	12					
Presentation / Seminar Preparation									
Midterm Exam		1	36	36					
Recitations									
Laboratory									
Projects									
Final Exam		1	48	48					
			Total Work Load	180					
ECTS Points (Total Work Load / Hour) 6									
Learning Outcon	nes								
1	Students learn the techniques used in Big Data analysis								
	Students will recognize the corporate application areas associated with Big Data analytics and have the basic knowledge equipment to produce projects/solutions.								
Weekly Content									
1	Introduction								
2	Big Data								
3	Big Data Analytics Platforms								
4	Descriptive/Predictive/Prescriptive Analytics								



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5	Deterministic/Stochastic, Linear/Non-linear Modeling Approaches												
6	Data Preparation, Data Normalization												
7	Segme	Segmentation, Clusters											
8	Web M	Web Mining											
9	Statisti	Statistical Analysis											
10	Data Analytics in Business												
11	Data Science and Business Strategy												
12	Business Problems and Data Analytics Solutions												
13	Busines	Business Problems and Data Analytics Solutions											
14	Business Problems and Data Analytics Solutions												
15	Business Problems and Data Analytics Solutions												
Contribution of Learning Outcomes to Program Objectives (1-5)													
	P1	P2	Р3	P4	P5	P6	P7	P8	Р9	P10	P11	P12	P13
1	1	3	1	1	5	4	5	1	1	1	2	1	3
2	2	5	5	5	5	4	5	1	1	1	3	1	3
Contribution Level 1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Ver						: Very H	igh						
Compiled by:	Compiled by: Assoc. Prof. Dr. Müge KLEIN (Head of Sub-Department Management and Organization							nization)					
Date of Compilation: 04.06.2020													