ANALYSIS OF ALGORITHMS											
1	Course Title:	ANALYS	SIS OF ALGORITHMS								
2	Course Code:	BMB300	3								
3	Type of Course:	Compuls	ory								
4	Level of Course:	First Cyc	le								
5	Year of Study:	3									
6	Semester:	5									
7	ECTS Credits Allocated:	6.00									
8	Theoretical (hour/week):	4.00									
9	Practice (hour/week):	0.00									
10	Laboratory (hour/week):	0									
11	Prerequisites:										
12	Language:	Turkish									
13	Mode of Delivery:	Face to f	face								
14	Course Coordinator:	Prof. Dr.	PINAR KIRCI								
15	Course Lecturers:										
16	Contact information of the Course Coordinator:	Bilgisaya Tel.:+90 email: m	ar Müh. Bölüm Binası, 1. kat, oda 3 (224) 275 52 63 jetinbilgin at uludag edu tr								
17	Website:										
18	Objective of the Course:	The nece models t paradign are desc	essary information is taught to recommend mathematical to these derste computation problems. Algorithms, ns and data structures for solving computational problems cribed.								
19	Contribution of the Course to Professional Development:	Enginee	ring Science: 70%; Engineering Design: 30%								
20	Learning Outcomes:		-								
		1	Learn the concept of complexity and related notations								
		2	Learn sorting and tree algorithms								
		3	Learn divide conquest algorithms								
		4	Learn graph algorithms								
		5	Learn P,NP concepts and approximate algorithm solving								
		6									
		7									
		8									
		9									
		10									
21	Course Content:										
	Course Content:										
Week	Theoretical		Practice								
1											
2	Asymptotic Complexity										
3	Brute Force Algorthms										
4	Divide and Conquer										
5	Recurrence Equations										

6	Sorti	Sorting Algorithms																		
7	Sorti	Sorting Algorithms																		
8	Dyna	Dynamic Programming																		
9	Dyna	Dynamic Programming																		
10	Gree	Greedy Algortihm																		
11	Grap	ohs																		
12	Sear	rchin	g Algo	ortihms	3															
13	Data	a Cor	npres	sion																
14	NP Theory																			
22	Textbooks, References and/or Other Materials:									Cormen, Thomas, Charles Leiserson, Ronald Rivest, and Clifford Stein. Introduction to Algorithms. 3rd ed. MIT Press, 2009. ISBN: 9780262033848. Miller, Bradley, and David Ranum. Problem Solving with Algorithms and Data Structures Using Python. 2nd ed										
									Fr 97	anklin, 781590	Beedle	∋ & Ass 1.	ociates	, 2011	. ISBN:					
23	Asse	esme	ent							0101030202071.										
TERM L	EAR	NING	ACTI	VITIES	;		1	NUMBE	W	WEIGHT										
Midtern	n Exa	am						1	25	25.00										
Quiz							(	0	0.	0.00										
Activit	ctivites									Numb	er		Dura	Duration (hour) Total W Load (h						
TReore	tical							1	10	10400			4.00	4.00 56.00						
Practic	acticals/Labs									0			0.00	0.00 0.00						
Self stu	If study and preperation									14			5.00	5.00 70.00						
Homew	neworks									2				24.00						
Project	S									0.00				0.00						
Field S	d Studies									0			0.00	0.00						
Midtern										1				2.00						
Others	hers									0						0.00				
Final E	al Exams										1					2.00				
Total W	al Work Load										180.00									
Total w	tal work load/ 30 hr										5.93									
ECTS (	TS Credit of the Course									6.00										
25	5 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																			
	I	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	3 PQ9	PQ1	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16			
ÖK1	4	4	4	4	4	4	4	2	2	2	2	2	2	0	0	0	0			
ÖK2	4	4	4	4	4	4	4	2	2	2	2	2	2	0	0	0	0			
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ÖK3	4	4	4	4	4	4	4	2	2	2	2	2	2	0	0	0	0			
ÖK4	4	4	4	4	4	4	4	2	2	2	2	2	2	0	0	0	0			

ÖK5	4	4	4	4	4	4	2	2	2	2	2	2	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:				2 Iow	3 Medium			4 High			5 Very High					