PARALLEL ALGORITHMS									
1	Course Title:	PARALL	EL ALGORITHMS						
2	Course Code:	BM5111							
3	Type of Course:	Optional							
4	Level of Course:	Second	Cycle						
5	Year of Study:	1							
6	Semester:	1							
7	ECTS Credits Allocated:	6.00							
8	Theoretical (hour/week):	3.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	none							
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	ace						
14	Course Coordinator:	Doç. Dr.	Murtaza CiCiOĞLU						
15	Course Lecturers:	yok							
16	Contact information of the Course	Bilgisaya	ır müh. bölüm binası 1. kat oda 110						
	Coordinator:	pinarkirc	ci@uludag.edu.tr						
17	Website:								
18	Objective of the Course:	To introduce the advanced techniques for parallel algorithm analysis and design.							
19	Contribution of the Course to Professional Development:	Especially in recent years, it has been highly observed that parallel algorithms are used extensively in optimization approaches in problem solving. This course will be especially useful for students who want to study in this field.							
20	Learning Outcomes:								
		1	parallel algorithms that can be used in parallel architectures will be examined						
		2							
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		9							
		10							
21	Course Content:								
	Course Content:								
Week	Theoretical		Practice						
1	Balanced trees, pointers								
2	pipeline and layered structure								
3	lists and trees								
4	selection problem and parallel select algorithm	ion							

5	merge problem								
6	parallel merge algorithm								
7	sort problem								
8	parallel sort algorithm								
9	search problem								
10	parallel search algorithm on EREW, (and CRCW	CREW							
11	search algorithm on trees								
12	search algorithm on trees								
13	matrixes and graph algorithm								
14	strings								
22	Textbooks, References and/or Other Materials:		Paralel Algoritmalar: Modeller ve Yöntemleri Yüksek Başarımlı Hesaplama Prof. Dr. Abdulsamet Haşıloğlu						
23	Assesment								
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT						
Midterr	n Exam	1	50.00						
Quiz		0	0.00						
Home v	work-project	0	0.00						
Final E	xam	1	50.00						
Total		2	100.00						
	ution of Term (Year) Learning Activities S Grade	es to	50.00						
Contrib	Contribution of Final Exam to Success Grade		50.00						
Total			100.00						
Measu	rement and Evaluation Techniques Us	sed in the	written exam						
24	ECTS / WORK LOAD TABLE								

Activites	Number	Duration (hour	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	2.00	28.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	50.00	50.00
Others	0	0.00	0.00
Final Exams	1	60.00	60.00
Total Work Load			230.00
Total work load/ 30 hr			6.00
ECTS Credit of the Course			6.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	1	3	1	1	4	1	1	1	1	1	1	1	1	1	1	1
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	1 very low			2 low		3 Mediu		um	4 High		5 Very High					