	DATA STRUC	TURE	S AND PROGRAMMING						
1	Course Title:	DATA ST	FRUCTURES AND PROGRAMMING						
2	Course Code:	IYS3205							
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	le						
5	Year of Study:	3							
6	Semester:	5							
7	ECTS Credits Allocated:	4.00							
8	Theoretical (hour/week):	3.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:								
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	ace						
14	Course Coordinator:	Doç. Dr.	MELİH ENGİN						
15	Course Lecturers:	Doç.Dr.	Melih ENGİN						
16	Contact information of the Course Coordinator:	Doç.Dr. Melih ENGİN 0224 294 26 95 melihengin@uludag.edu.tr							
17	Website:								
18	Objective of the Course:	To define the data types that can be used for private purposes, sequential or to create direct access files and use the ability to grasp the pointer type variables, identify, to create a self-calling program parts, understand the Sorting and searching methods to create libraries using the possibilities afforded by the programming language and to examine the existing library, Programming using the possibilities afforded by the use of language to control computer ports.							
19	Contribution of the Course to Professional Development:	It provide structure subject the on the co	es all kinds of infrastructure for algorithm analysis and data models needed in mathematical model creation and any nat includes data, and enables to develop the best solution omputer.						
20	Learning Outcomes:								
		1	Understanding the algorithm logic						
		2	Makes Algorithm Application						
		3	Understands the data structures						
		4	Defines the data structure						
		5	Makes programming and data structures applications						
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
		Co	urse Content:						
Week	Theoretical		Practice						
1	algorithm								

2	algorithm																			
3	The concept of data structures																			
4	data structures																			
5	Programming Examples																			
6	queues																			
7	trees																			
8	Collections																			
9	Programming types of structures																			
10	Programming types of structures																			
11	Programming types of structures																			
12	Programming types of structures																			
13	Programming types of structures																			
14	Progra	amı	ming t	ypes o	of stru	ictures														
22	Textbooks, References and/or Other Materials:																			
23	Asses	me	ent																	
TERM L	LEARNING ACTIVITIES NUMBE									WEIGHT										
Midterm	n Exan	ſ						1	40	0.00										
Quiz								0	0.	00										
Activites									Numb	ber		Dura	ition (hour)	Total Work Load (hour)					
Contribution of Term (Year) Learning Activities to								10	10400			3.00	3.00			42.00				
Practica	Practicals/Labs									0			0.00			0.00				
Sentsilon	Sontsibution of Frieple Extern to Success Grade								0.	0 0			0.00			0.00				
Homew	lomeworks									1				50.00			50.00			
Prejecti	Reistisement and Evaluation Techniques Used in the									ative	Evalua	tion	0.00	0.00			0.00			
Field St	Field Studies									0 0.00						0.00				
Mietern										1			35.00		35.00					
Others	ers										0					0.00				
Final Ex	al Exams										0 0.00 0.00									
Total W	tal Work Load												162.00							
Total wo	I otal work load/ 30 hr											4.23								
ECTS Credit of the Course															4.00					
25	5 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																			
	P	ຊ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	B PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16			
ÖK1	0		0	0	4	1	2	1	0	0	0	0	0	0	0	0	0			
ÖK2	0		0	0	4	1	3	1	0	0	0	0	0	0	0	0	0			
ÖK3	0		0	0	4	1	3	1	0	0	0	0	0	0	0	0	0			
ÖK4	0		0	0	4	1	3	1	0	0	0	0	0	0	0	0	0			

ÖK5	0	0	0	4	1	3	1	0	0	0	0	0	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					