	INTE	GRAL	EQUATIONS						
1	Course Title:	INTEGR	AL EQUATIONS						
2	Course Code:	MAT403	2						
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	cle						
5	Year of Study:	4							
6	Semester:	8							
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 t	face						
14	Course Coordinator:	Dr. Ögr.	Üyesi NISA ÇELİK						
15	Course Lecturers:	Yrd.Doç. Yrd.Doç.	.Dr.Setenay DOĞAN .Dr.Nisa ÇELİK .Dr.Sezai HIZLIYEL .Dr.Emrullah YAŞAR						
16	Contact information of the Course Coordinator:	0 224 29	n@uludag.edu.tr 941752 n Edebiyat Fak. Mat.Böl. Görükle Yerleşkesi, Nilüfer BURSA						
17	Website:								
18	Objective of the Course:	To introc application	duce the concept of integral equation and give some ons						
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Learns the modelling of some events as an integral equations						
		2	Understands the relationship between integral and differential equations.						
		3	Learns to get solutions of some integral equations.						
		4							
		5							
		6							
		7							
		8							
		9							
04	Course Content	10							
21 Course Content: Course Content:									
Week	Theoretical		Practice						
1	Preliminary information. Definition, classification, Fredholm and Volterra equations, the concept.of solution	1							

2	Fredholm integral equation of second kind with dejenerate kernel. Reducing to system of algebric equations, obtaining of the solution							of											
	in ca	se		an eig		ing of ti lue. Re													
3						quation ctions.		ises.											
4	Fred	holm	n equa	ations.	Exis	inhom tance o genvali	of the	eous											
5	appli	icatic		the m		nethod I to Fre		n and											
6				s and es. Exe		/ent ke s.	rnels.												
7	Appl	icatio	ons of		ethod	oximat d to Fre ses.		n and											
8	_		·	gene															
9	Clas kern		Fred	holm t	heory	in cas	e an a	rbitrar	у										
10			of the genva		ons ir	n case	lambo	da is											
11				olution	s in c	ase lar	nbda	is an											
Activites										Number				Duration (hour)			Total Work Load (hour)		
Theore	Theore General exercises.									14			3.00			42.00			
	ticals/Labs									0 Linear megrar Equation William Vernon Lovitt						0.00			
Self stu	z Trexibooks, References and/or Other study and preperation Materials.										tegra⊓ /ernon	Equation Lovitt	4.00			56.00			
Homev	works									14						56.00			
Pr 2je ct	ts ^{Asse}	esme	nt						_	0						0.00			
Field S	Studies	S								0						0.00			
Midterr		ms					1		4	40.00 12.00)	12.00				
Others	5									0 0.00				0.00					
Final E Home			ct				0		0	odo)		14.00			
Total V																180.00			
							2		1	00.00						6.00			
ECTS			ne Co	urse		5										6.00			
Succes					-														
	Contribution of Final Exam to Success Grade									60.00									
Total										00.00									
Measu Course	e							d in th	e										
24	EC	rs /	WO	RK L	OAD	TAB	LE												
25	5			CON	TRIE	BUTIC	N O			NING		COMES	S TO	PRO	GRAN	IME			
			DO1	DO3	DO 4	PQ5	DOG	DO7		PQ9		PQ11	P O12	DO4	PQ14	PQ15	PQ16		
	ľ	- 41	ruz	r Q3	гQ4	F Q 5		r Q/	- U		0	Full		3		PQ15	FQ10		
ÖK1	2	2	3	1	2	4	1	4	4	3	1	0	0	0	0	0	0		

ÖK2	3	2	1	2	4	1	3	4	2	1	0	0	0	0	0	0
ÖK3	2	3	1		5	1	-		2	1	0	0		0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:				2 low		3	Medi	um	4 High			5 Very High				