	P-/	ADIC /	ANALYSIS II					
1	Course Title:	P-ADIC ANALYSIS II						
2	Course Code:	MAT6118						
3	Type of Course:	Optional						
4	Level of Course:	Third Cycle						
5	Year of Study:	2						
6	Semester:	4						
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:							
12	Language:	Turkish						
13	Mode of Delivery:	Face to face						
14	Course Coordinator:	Doç. Dr. HACER ÖZDEN AYNA						
15	Course Lecturers:							
16	Contact information of the Course Coordinator:	hozden@uludag.edu.tr 02242941664						
17	Website:							
18	Objective of the Course:	The aim of this course is to teach former notions intensively and in detail and to make them differentiate between results on different structures						
19	Contribution of the Course to Professional Development:	Can establish correspondence between mathematical concepts and can think analytically						
20	Learning Outcomes:							
		1	Knows the properties of p-adic analysis in details					
		2	Knows the properties of p-adic zeta functions, L-functions and gamma functions					
		3						
		4						
		5						
		6						
		7						
		8						
		9						
		10						
21	Course Content:							
10/	Course Content:							
	Theoretical	laommo	Practice					
1	p-adic zeta functions L-functions and functions	a gamma						
2	p-adic Dirichlet L functions							
3	Leopoldt's formula							
4	p-adic gamma function							
5	Gauss and Jacobi Sums							

Contrib 1 very low ution Level:			earning Objectiv					ium	Program Qualifica 4 High			5 Very High						
ÖK2	C)	3	3	0	2	5			3	0	0		0	0	0	0	
ÖK1)	3	3	0	2	5		0	3	0	0	0	0	0	0	0	
	F	PQ1				PQ5		PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16	
25		CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																
ECTS Credit of the Course																6.00		
Total work load/ 30 hr															6.00			
Total Work Load															207.00			
Final E	l Exams									1)	27.00			
Others	ers								(0				0.00			0.00	
Midterr	idterm exams								1	1				27.00			27.00	
Field S	eld Studies								(0				0.00			0.00	
Project	ojects								(0				0.00			0.00	
Solf stude CTS WORK LOAD TABLE Homeworks								(_			0.00				0.00		
										14				6.00			84.00	
Practicals/Labs									1-1	14 		• ••	0.00			42.00 " 0.00		
Contribution of Term (Year) Learning Activities to Activites							1	50.00 Duration (ho Number Duration (ho 100,000 3.00					hour)	r) Total Work Load (hour)				
Total	ution	of T	orm ()	(oor)	oorn	ing Act	2 tiv/ition			0.00								
	nal Exam 1									50.00								
								_	0.00									
								0.00										
Midterm Exam 1							_	50.00										
TERM L	EAR	ARNING ACTIVITIES NUMBE							WE	EIGHT								
23		aterials: sesment																
22		extbooks, References and/or Other								Course	e in p-a	dic Ana	alysis, F	Robert,	Alain M	/I., Spring	ger.	
14	transform p-adic spectral theorem																	
13	The	The Shnirelman integral and p-adic Stieltjes																
12	Gros	Gross's p-adic regulator																
11	-	Regulators and L-functions																
10			-			S												
9			c formula for Gauss Sums leberger's theorem															
8				for Ga	auss S	Sums												
6 7	Coho		Curves															