	R	EEL A								
1	Course Title:	REEL A	NALYSIS I							
2	Course Code:	MAT5101								
3	Type of Course:	Compuls	SOFY							
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	face							
14	Course Coordinator:	Prof. Dr.	OSMAN BİZİM							
15	Course Lecturers:	Prof. Dr. Osman Bizim								
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi, Fen-Edebiyat Fakültesi Matematik Bölümü, Görükle Bursa-TÜRKİYE 0 224 294 17 57 / obizim@uludag.edu.tr								
17	Website:									
18	Objective of the Course:	The aim of this course is to review student's undergradute analysis courses and to correct the deficiencies. So students can be su have successful in graduate studies.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Learns the real number system, Euclidean Spaces, metric spaces, basic topological properties of R.							
		2	Learns compact and connected sets and their properties, sequences and series.							
		3	Learns power series, absolute convergence.							
		4	Learns countinuity and continous functions and their properties							
		5	Learns differentiation and properties of the differentiable functions.							
		6	Learns The Riemann-Stieltjes integral and its properties.							
		7	Learns sequences and series of functions and their properties, uniform convergence,							
		8								
		9								
•		10								
21	Course Content:	^	Content.							
10/	Theoretical	Co	ourse Content:							
	Theoretical	~	Practice							
1	The real and complex number system, Euclidean Spaces, metric spaces and their properties									

2						es of R, neir pro													
3		quences and series in R and C, and their operties																	
4		wer series and absolute convergence, dition and multiplicatio of series																	
5	Coun ⁻ prope			d cont	inous	functio	ons an	d thei	r										
6				and pr unctior		ies of t	he												
7	Mean	val	ue the	eorem	and i	ts appl	icatior	าร											
8	Vecto	or-va	alued	functio	ons ar	nd their	. brobe	erties											
9	The F prope			Stieltje	es inte	egral ar	nd its												
10	Integr	atio	n of v	ector-	value	d funct	ions												
11	prope	equences and series of functions and their operties, uniform convergence, The Stone- eierstrass theorem, some special functions.																	
12		hiform convergence of sequences and rises of functions																	
13		he Stone-Weierstrass theorem and its pplications																	
14	the lo	gari	thmic	functi	ons, t	e expo he trigo he Gar	onome	etric											
functions, Fourier series, the Gamma function							<u> </u>	Numb	er		Dura	Duration (hour)			Total Work Load (hour)				
Theore	Theoretical							134	IJ Real Analysis, H. L. Royden, 42.00										
Practicals/Labs										0 0.00					0.00				
Se23Stu	Asses	ente	Øbera	ition					1	14							140.00		
Homew		<u> </u>					<u> </u>		- (0				0.00			0.00		
Project	S Ever	<u> </u>							06	0.80					0.00				
	term Exam 0)			0.00			0.00			
Midtern Home \	n exar	ns.	ct				0		06	0.80			0.00			0.00			
Others							10			14			5.00			70.00			
Einal E	nat Exams								10	100.00)		18.00			
Total W		bad								<u>, (K)</u>						270.00			
SotalesorGrade/ 30 hr														9.00					
ECTS Credit of the Course															6.00				
Total									10	100.00									
Measu Course		t an	d Eva	luatio	n Tec	hnique	s Use	d in th	ie										
24	ECT	S/	WO	RK L	OAD	TAB	LE												
25				CON	TRIE	BUTIO	N OI			-	OUTC ATIO	-	S TO I	PROC	GRAM	ME			
	Р	Q1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16		
ÖK1	5		5	5	5	5	5	5	5	5	5	0	0	0	0	0	0		
ÖK2	5		5	5	5	5	5	5	5	5	5	0	0	0	0	0	0		

Contrib ution Level:	ution			2 low			3 Medium			4 High			5 Very High			
LO: Learning Objectives PQ: Program Qualifications																
ÖK7	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0	0
ÖK6	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0	0
ÖK5	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0	0
ÖK4	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0	0
ÖK3	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0	0