REEL ANALYSIS I									
1	Course Title:	REEL A	NALYSIS I						
2	Course Code:	MAT510	1						
3	Type of Course:	Compuls	sory						
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:								
101	<b>T</b>	Co	ourse Content:						
	Theoretical		Practice						
1	The real and complex number system Euclidean Spaces, metric spaces an properties								

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2	Basic topological properties of R, cor and connected sets and their propert											
3	Sequences and series in R and C, ar properties	nd their										
4	Power series and absolute converge addition and multiplicatio of series	nce,										
5	Countinuity and continous functions a properties	and their										
6	Differentiation and properties of the differentiable functions											
7	Mean value theorem and its applicati	ons										
8	Vector-valued functions and their pro	perties										
9	The Riemann-Stieltjes integral and its properties	5										
10	Integration of vector-valued functions											
11	Sequences and series of functions are properties, uniform convergence, The Weierstrass theorem, some special for	e Stone-										
12	Uniform convergence of sequences a series of functions	and										
13	The Stone-Weierstrass theorem and applications	its										
14	Some special functions, the exponen the logarithmic functions, the trigonor functions, Fourier series, the Gamma and their properties	metric										
22	Textbooks, References and/or Other Materials:		<ul> <li>[1] Principles of Mathematical Analysis, W. Rudin,</li> <li>[2] Real and Complex Analysis, W. Rudin,</li> <li>[3] Real Analysis, H. L. Royden,</li> <li>[4] Introduction to Real Analysis, W. F. Trench.</li> </ul>									
23	Assesment											
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT									
Midtern	m Exam	0	0.00									
Quiz		0	0.00									
Home \	work-project	0	0.00									
Final E	xam	1	100.00									
Total		1	100.00									
	oution of Term (Year) Learning Activitie ss Grade	es to	0.00									
Contrib	oution of Final Exam to Success Grade	)	100.00									
Total			100.00									
Measui Course	rement and Evaluation Techniques Us	sed in the										
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	10.00	140.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Others	14	5.00	70.00
Final Exams	1	18.00	18.00
Total Work Load			270.00
Total work load/ 30 hr			9.00
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	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
ÖK3	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
ÖK5	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
ÖK7	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	ution					3 Medium			4 High			5 Very High				