ALGEBRAIC TOPOLOGY I									
1	Course Title:	ALGEB	RAIC TOPOLOGY I						
2	Course Code:	MAT4077							
3	Type of Course:	Optional							
4	Level of Course:	First Cycle							
5	Year of Study:	4							
6	Semester:	7							
7	ECTS Credits Allocated:	5.00							
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 50 / obizim@uludag.edu.tr							
17	Website:								
18	Objective of the Course:	The aim of this course to give the basic principals of algebraic topology.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Learns topological groups and their properties.						
		2	Learns group action on a space.						
		3	Learns Brower-fixed point theorem and its applications.						
		4	Learns categories and functors.						
		5	Learns the path, the path-connected topological spaces and local path connected topological spaces.						
		6	Learns the basic concepts of algebraic toplogy.						
		7							
		8							
		9							
	I	10							
21	Course Content:								
10.	T	Co	ourse Content:						
	Theoretical	l'a a	Practice						
1	Topological Groups and their propert								
2	The acts of a group on a topological and its properties								
3	The Brower-fixed point theorem and applications	its							
4	Categories								

	<u>, </u>						
5	Functors						
6	The path in the topological spaces ar properties	nd their					
7	The connected and path-connected topological spaces and the relations them	between					
8	The local path connected topological and its applications	spaces					
9	Two dimensional manifolds and their properties	,					
10	Orientable and nonorientable surface their properties	es and					
11	Connected two dimensional manifold their properties	ls and					
12	The classification theorem of compact surfaces and their properties	ct					
13	Triangulation of compact surfaces						
14	The Euler caracteristic of surfaces						
22	Textbooks, References and/or Other Materials:		 W. S. Massey, A Basic Course in Algebraic Toplogy, Springer-Verlag, 1991. M.J. Greenberg, J.R. Harper, Algebraic Topolgy, A First Course, Addison-Wesley, 1981. J. Munkres, Topology, Prentice-Hill, 2.Ed. 2000. 				
23	Assesment						
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT				
Midtern	m Exam	1	40.00				
Quiz		0	0.00				
Homew	Homeworks, Performances		0.00				
Final E	xam	1	60.00				
Total		2	100.00				
Contribution of Term (Year) Learning Activities to Success Grade			40.00				
Contrib	oution of Final Exam to Success Grade	9	60.00				
Total			100.00				
Measu 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	2.00	28.00
Homeworks, Performances	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	20.00	20.00
Others	14	2.00	28.00
Final Exams	1	32.00	32.00
Total Work Load			150.00
Total work load/ 30 hr			5.00
ECTS Credit of the Course			5.00

25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME																
25	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
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution 1 very low Level:		2	2 low 3 Mediu			um	m 4 High			5 Very High						