	TOPOLOGY									
1	Course Title:	TOPOLO	OGY							
2	Course Code:	MAT3018								
3	Type of Course:	Compuls	sory							
4	Level of Course:	First Cyc	ele							
5	Year of Study:	3								
6	Semester:	6								
7	ECTS Credits Allocated:	6.00								
8	Theoretical (hour/week):	2.00								
9	Practice (hour/week):	2.00								
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 the course is to make the students gain the basic subjects of the topological spaces. The goals are to teach the topological spaces, examples of topological and the related notions and results so that the students can make their applications, and let them know about the historical background of the topics.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Learns topology and topological spaces.							
		2	Learns the interior, the exterior, the boundary and the closure of a set in topological spaces.							
		3	Learns continuity, open-closed function and homeomorphism in the topological spaces.							
		4	Learns the product and the quotient spaces.							
		5	Learns sequences and convergence of sequences, nets and filters in topological spaces.							
		6	Learns separation axioms in topological spaces and compactness, connected.							
		7								
		8								
		9								
		10								
21	Course Content:									
		Со	ourse Content:							
	Theoretical		Practice							
1	Topology, topological space and sub topology	space	Examples of the Topology, topological space, subspace topology							

2	Topological concepts, interior and expoints, boundary points, accumulation and closure points in topological space.	n points	Examples of the Topological concepts, interior and exterior points, boundary points, accumulation points and closure points in topological space.					
3	Base, subbase and local base of the topology.		Examples of the Base, subbase and local base of the topology.					
4	The countable space and the separal space	ble	Examples of The countable space and the separable space.					
5	The neighborhoods in the topological and the system of the neighborhoods		Examples of the neighborhoods in the topological spaces and the system of the neighborhoods.					
6	Continuous functions on topological s	spaces.	Examples of the continuous functions on topological spaces and properties of continuous functions.					
7	Open and closed functions, homeomore on topological spaces.	orphisms	Examples of the Open and closed functions, homeomorphisms on topological spaces.					
8	Sequences in the topological spaces, convergent sequences, nets and filte		Examples of the Sequences in the topological spaces, convergent sequences, nets and filters.					
9	Product topology and the properties oproduct spaces.	of the	Examples of the product spaces.					
10	Quotient topology and the properties quotient spaces.	of the	Examples of the quotient spaces.					
11	Compact topologic spaces and their properties, countable and sequential topologic spaces.	compact	Examples of the compact topologic spaces.					
12	Local compact spaces and one point compactification.		Examples of the local compact spaces and one point compactification.					
13	Connected topologic spaces, path co spaces, mean-value theorem and loc connected spaces.		Examples of the connected topologic spaces, path connected spaces and local connected spaces.					
14	The separation axioms in topological and metrizable spaces	spaces	Properties of the separation axioms in topological spaces					
22	Textbooks, References and/or Other Materials:		[1] Topoloji, O. Bizim [2] Topoloji, O. Mucuk [3] Genel topoloji, N. Yıldız [4] Topology, J. Munkers					
23	Assesment							
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT					
Midtern	m Exam	1	40.00					
Quiz		0	0.00					
Homeworks, Performances 0			0.00					
Final E	xam	1	60.00					
Total		2	100.00					
	oution of Term (Year) Learning Activities ss Grade	es to	40.00					
Contrib	oution of Final Exam to Success Grade)	60.00					
Total			100.00					
Measu	rement and Evaluation Techniques Us	sed in the						
24	ECTS / WORK LOAD TABLE							
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Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	4.00	56.00
Homeworks, Performances	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	15.00	15.00
Others	14	2.00	28.00
Final Exams	1	25.00	25.00
Total Work Load			180.00
Total work load/ 30 hr			6.00
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
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution 1 very low Level:		2	2 low	low 3 M			3 Medium		4 High			5 Very High				