

QF01/0408-4.0E	Course Plan for Bachelor program - Study Plan Development and Updating Procedures/ Mathematics Department
----------------	--

Study plan No.	2021/2022		University Specialization		Master of Math.	
Course No.	0101732		Course name		Topology (2)	
Credit Hours	3		Prerequisite/ Co-requisite		Topology (1)	
Course type	<input type="checkbox"/> MANDATORY UNIVERSITY REQUIREMENT	<input type="checkbox"/> UNIVERSITY ELECTIVE REQUIREMENTS	<input type="checkbox"/> FACULTY MANDATORY REQUIREMENT	<input type="checkbox"/> Support course family requirements	<input checked="" type="checkbox"/> Mandatory requirements	<input type="checkbox"/> Elective requirements
Teaching style	<input type="checkbox"/> Full online learning		<input type="checkbox"/> Blended learning		<input checked="" type="checkbox"/> Traditional learning	
Teaching model	<input type="checkbox"/> 1 Synchronous: 1 asynchronous		<input type="checkbox"/> 1 face to face : 1 asynchronous		<input checked="" type="checkbox"/> 2 Traditional	

Faculty member and study divisions' information (to be filled in each semester by the subject instructor)

Name	Academic rank	Office No.	Phone No.	E-mail	
Division number	Time	Place	Number of students	Teaching style	Approved model

Brief description

Locally compact and K-Spaces, Cech complete spaces, metric and metrizable spaces, complete metric spaces and the completion theorem, Baire spaces and Baire category theorem, uniform and proximity spaces.

Learning resources

Course book information (Title, author, date of issue, publisher ... etc)	<ul style="list-style-type: none"> T1: General Topology: Chapters 1–4, Springer-Verlag Berlin Heidelberg, Nicolas Bourbaki (auth.), 1995 T2: A First course in Topology, James R. Munkres 				
Supportive learning resources (Books, databases, periodicals, software, applications, others)	<ul style="list-style-type: none"> General topology, John L. Kelley, Springer-Verlag, 1975 Schaum's Outline of General Topology, Seymour Lipschutz, McGraw-Hill, 1968 				
Supporting websites	<ul style="list-style-type: none"> http://www.fsc.uaeu.ac.ae/math/topologyCenter.htm http://ecaculus.org http://library.atgti.az 				
The physical environment for teaching	<input checked="" type="checkbox"/> Class room	<input type="checkbox"/> labs	<input type="checkbox"/> Virtual educational platform	<input type="checkbox"/> Others	
Necessary equipment and software					
Supporting people with special needs					
For technical support					

QF01/0408-4.0E	Course Plan for Bachelor program - Study Plan Development and Updating Procedures/ Mathematics Department
----------------	--

Course learning outcomes (S= Skills, C= Competences K= Knowledge,)

No.	Course learning outcomes	The associated program learning output code
Knowledge		
K1	Knows advanced concepts in topology.	MK1
K2	Knows how to read and write proofs in topology. +	MK1
K3	Knows a variety of examples and counterexamples in topology.	MK1
K4		
Skills		
S1	Employing topology in solving scientific problems.	MS1
S2	The ability to research and write scientific reports.	MS2
S3	Consolidating the scientific methodology as a way of thinking and a tool in facing public problems.	MS3
Competences		
C1	Possess logical thinking and scientific research methods.	MC2
C2		

Mechanisms for direct evaluation of learning outcomes

Type of assessment / learning style	Fully electronic learning	Blended learning	Traditional Learning (Theory Learning)	Traditional Learning (Practical Learning)
First/Second exam	30%	30%	40%	30%
Participation / practical applications	0	0	10%	30%
Asynchronous interactive activities	30%	30%	0	0
Final exam	40%	40%	50%	40%

Schedule of simultaneous / face-to-face encounters and their topics

Week	Subject	learning style*	Reference **
1	Locally compact and prove some important properties.	Lecture	T1: 83-90
2	K-Spaces and prove some important properties.	Lecture	T1: 90-94
3	The definition of a metric, metrizable spaces	Lecture	T2: 243 – 248
5	The definition of paracompactness and prove some important properties.	Lecture	T2: 248 – 263
5	The complete metric space and prove some important properties.	Lecture	T2: 263– 265
6	A space filling curve	Lecture	T2: 271– 275
7	The compactness in metric space and prove some important properties.	Lecture	T2: 275– 281

QF01/0408-4.0E		Course Plan for Bachelor program - Study Plan Development and Updating Procedures/ Mathematics Department	
8	The definition of the Baire spaces	Lecture	T2: 294–281
9	Mid Exam 40%		
10	Introduction to Dimension Theory	Lecture	T2: 304-316
11	Uniform spaces and prove some important properties.	Lecture	T1: 169-174
12	Uniformly continuous functions		T1:174-179
13	Product of uniform spaces	Lecture	T1:179-181
14	Compactness of uniform spaces	Lecture	T1:198-203
15	Connected set in a compact space	Lecture	T1:203-204
16	Final Exam 50%		