



Module Handbook

Module Name :	Topologi Topology
Module level :	Bachelor degree/Undergraduate Program
Course Code :	4420103147
Abbreviation, if applicable:	-
Courses included in the module, if applicable:	Not Applicable
Semester/Term	6 th / Third year
Module coordinator(s)	Muhammad Jakfar, S.Si., M.Si.
Lecturer(s):	Prof. Dr. Dwi Juniati, M.Si. Muhammad Jakfar, S.Si., M.Si.
Language:	Bahasa Indonesia (Indonesian Language)
Classification within the curriculum:	Compulsory/ Elective
Teaching format/class hours per week during the semester:	3 contact hours of lectures (<i>sks</i> or credit unit*)
Workload :	3 x 50 minutes lectures, 3 x 60 minutes structured activity, and 3 x 60 minutes individual activity per week, 14 weeks per semester 119 total hours per semester ~ 4.77 ECTS**
Credit Unit:	3 credit unit (4.77 ECTS)
Requirements:	Real Analysis



<p>Learning goals/competencies:</p>	<p>Knowledge (KNO-1) Demonstrating mathematical knowledge and mathematical insight.</p> <p>CLO-1: Be able to demonstrate mathematical knowledge and mathematical insight about structure of sets in various topology, the formation of a topology from a basis and the theorems that apply to topological spaces and continuous function from a topological space to another topological space, metric space in topology and their properties.</p> <p>.</p> <p>Competency (COM-1) Proving mathematical statements by various methods.</p> <p>CLO-2 : Be able to prove mathematical statements of structure of sets in various topology, the formation of a topology from a basis and the theorems that apply to topological spaces and continuous function from a topological space to another topological space, metric space in topology and their properties.</p> <p>Social (SOC-2) Showing responsibility for work in the field of expertise independently, having a lifelong willingness to learn, and having the courage to make decisions.</p> <p>CLO-3 : Be able to have responsibility for completing task about structure of sets in various topology, the formation of a topology from a basis and the theorems that apply to topological spaces and continuous function from a topological space to another topological space, metric space in topology and their properties.</p>
<p>Content</p>	<p>This course discusses about structure of sets in various topology, the formation of a topology from a basis and the theorems that apply to topological spaces and continuous function from a topological space to another topological space, metric space in topology and their properties. Lecture activities are carried out in a student center with discussions, observations, project assignments, and presentations.</p>
<p>Attribute Soft skill:</p>	<p>Active communication; Discipline; Collaboration; Responsibility; and Argumentation in class.</p>



Study/exam achievements:	The final grade (<i>NA</i>) is calculated based on the following ratio:		
	Assessment Components	Percentage of contribution	
	Participation	20%	
	Assignment	30%	
	Mid-semester test	20%	
	Final semester test	30%	
	Grade conversion of 0-100 scale into 0-4 scale is set as below:		
	Letter	Number	Grade Interval
	A	4,00	$85 \leq A \leq 100$
	A-	3,75	$80 \leq A- < 85$
	B+	3,50	$75 \leq B+ < 80$
	B	3,00	$70 \leq B < 75$
	B-	2,75	$65 \leq B- < 70$
	C+	2,50	$60 \leq C+ < 65$
	C	2,00	$55 \leq C < 60$
	D	1,00	$40 \leq D < 55$
	E	0,00	$0 \leq E < 40$
Learning Methods :	Student-centered approach; project-based learning; lecturer and discussion; and presentations (structured activities)		
Form of Media:	Power point slides; video; worksheets, and textbooks		



Literature (primary references):	<ol style="list-style-type: none">1. Dwi Juniati. 2013. Topologi. Surabaya: University Press Surabaya.2. Sidney M. Morris, 2015, Topology Without Tears, www.topologywithouttears.net.3. James Munkres. 2000. Topology: A First Course. Prentice Hall.4. Seymour Lipschitz. General Topology. Schaum's series.
Notes:	<p>*1 credit unit or <i>sks</i> in learning process = three periods consist of: (a) scheduled instruction in a classroom or laboratory (50 minutes); (b) structured activity (60 minutes); and (c) individual activity (60 minutes) according to the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 44 Year 2015 jo. the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 50 Year 2018.</p> <p>**1 credit unit or <i>sks</i> = 1.59 ECTS according to Rector Decree Of Universitas Negeri Surabaya No. 598/UN38/HK/AK/2019</p>