UNIVERSITAS NEGERI YOGYAKARTA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF MATHEMATICS EDUCATION
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Bachelor of Science in Mathematics **MODULE HANDBOOK**

Module name:	Introduction to Topology
Module level,if applicable:	Undergraduate
Code:	MAT6345
Sub-heading,if applicable:	-
Classes,if applicable:	-
Semester:	6th
Module coordinator:	Husna 'Arifah, M.Sc.
Lecturer(s):	1. Husna 'Arifah, M.Sc, 2. Niken Asih Binatari, M.Si
Language:	Bahasa Indonesia
Classification within the curriculum:	Elective Course
Teaching format / class hours perweek during the semester:	150 minutes lectures and 180 minutes structured activities per week.
Workload:	Total workload is 136 hours per semester which consists of 150 minutes lectures, 180 minutes structured activities, and 180 minutes self-study per week for 16 weeks.
Creditpoints:	3
Prerequisites course(s):	Real Analysis (MAT6325)
Course Outcomes	After taking this course the students have ability to: CO1. Communicate ideas in solving mathematical problems in writing or verbally. CO2. Demonstrate collaborative attitude and independence in carrying out individual tasks and group assignments

<table>
<tr><td></td><td>CO3.Explaining the general topological concept.
CO4. Explaining the topology concept to proof the properties, theorems or questions (problems) in the topology.</td></tr>
<tr><td>Content:</td><td>This course discusses topological space concepts in lines, fields and topologies in general, types of points in topological space, closing of a set, neighborhood and subspacetopology. Besides discussing the basis and subbasis and the topology produced by a class (a collection of several sets) also discusses the continuity of a function from the topological space to the topology, homeomorphism, and topology that is produced by the function.</td></tr>
<tr><td>Study/exam achievements:</td><td>CO1: Attitude assessment is carried out at each meeting by observation and / or self-assessment techniques using the assumption that basically every student has a good attitude. The student is given a value of very good or not good attitudeif they show it significantlycompared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of therequirements to pass the course. Students will pass from this course if at least have a good attitude.

The final mark will be weight as follow:

<table>
<tr><th>No</th><th>CO</th><th>Assessment Object</th><th>Assessment Technique</th><th>Weight</th></tr>
<tr><td>1</td><td>CO2, CO3 and CO4</td><td>a. Individual Assignment
b. Group Assignment
c. Quiz
d. Mid
e. Final Exam</td><td>Presentation / written test</td><td>10%

20%
20%
20%
30%</td></tr>
<tr><td colspan="4">Total</td><td>100%</td></tr>
</table>
</td></tr>
<tr><td>Forms of media:</td><td>Board, LCD Projector, Laptop/Computer</td></tr>
<tr><td>Literature:</td><td>Seymour Lipschutz. 1987. Theory and Problems of General Topology. Singapore : Mc Graw-Hill Book Company</td></tr>
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PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CO1		✓								
CO2			✓							
CO3					✓					
CO4						✓				