MINISTRY OF EDUCATION, CULTURE, RESEARCH, AND TECHNOLOGY
SRIWIJAYA UNIVERSITY
FACULTY OF TEACHER TRAINING AND EDUCATION
BACHELOR PROGRAM IN MATHEMATICS EDUCATION
Jl. Raya Palembang – Prabumulih Km.32, Indralaya Ogan Ilir 30662 Website:https://fkip.unsri.ac.id/mathedu/

Bachelor Program in Mathematics Education **MODULE HANDBOOK**

Module designation	:	Introduction to Topology / GMA309317
Semester	:	6nd (Sixth) / Even
Person responsible for the module	:	Dr. Darmawijoyo, M.Si. Septy Sari Yukans, S.Pd., M.Sc.
Language	:	Indonesian
Relation to the curriculum	:	Study Program Compulsory Course
Teaching methods	:	Expository, flipped classroom, group and classroom discussion (week 2-16)
Workload	:	14 weeks per semester excluding mid-term and final exams. 1 sks per week = 170 minutes, consisting of 50 minutes synchronous learning + 60 minutes asynchronous learning + 60 minutes systematic project. 170 minutes × 3 sks = 510 minutes = 8.5 hours per week 14 weeks × 8.5 hours = 119 hours 119 hours : 25 hours (1 ECTS) = 4.8 ECTS
Credit points	:	3 SKS (4.8 ECTS)
Prerequisite's course(s)	:	
Module objectives	:	During completing the course, students are able to CO1: Show a good responsibility in doing assignments CO2: Understand the concepts of topology CO3: Apply the concept of topology as a tool to solve problems
Content	:	This course discusses: 1. Set and Function 2. Metric Spaces 3. Open and Closed Set 4. Open Ball and Neighborhood 5. Topological Space 6. Density 7. Compactness 8. Connectedness
Examination forms		Examination in this course includes: 1. Affective (actively participating during classroom processes) 2. Structured Assignment

<table>
<tr>
<td>Study and examination requirements</td>
<td>:</td>
<td>It is expected that students attend 80% of the total meetings in the modules.
The total score is converted into a qualitative score,
<table>
<tr><th>Total Score</th><th>Grade</th><th>Description</th></tr>
<tr><td>86 – 100</td><td>A</td><td>Excellent</td></tr>
<tr><td>71 – 85.99</td><td>B</td><td>Good</td></tr>
<tr><td>56 – 70.99</td><td>C</td><td>Fair</td></tr>
<tr><td>41 – 55.99</td><td>D</td><td>Bad</td></tr>
<tr><td>0 – 40.99</td><td>E</td><td>Worse</td></tr>
</table>
To successfully pass the module, the minimum grade required is C.

Total Score = 70% of active participation + 30% of written assignments

Explanation:
1. Affective
● Contribution in discussion</td>
</tr>
<tr>
<td>Reading lists</td>
<td>:</td>
<td>1. Munkres, James R. (2000). Topology, second edition, Prentice Hall Inc.
2. Sze-Tsen Hu. (1964). Elements of General Topology, Holden-day, San Francisco
3. Lipschutz, Seymour. (1987). Theory and Problems of General Topology. Singapore: McGraw-Hill Book Company
4. Mendelson, B. (1990). Introduction to topology. Courier Corporation.</td>
</tr>
</table>

PLO and CO Mapping

PLO	CO
PLO 1: Having good morals, ethics and personality in completing tasks as a mathematics educator.	CO 1: Show a good responsibility in doing assignments
PLO 4: Having knowledge of mathematical concepts in solving mathematical problems and supporting further studies.	CO2: Understand the concepts of topology
PLO 7: Able to apply mathematical knowledge logically, critically and systematically in solving problems.	CO3: Apply the concept of topology as a tool to solve problems