**Undergraduate Programme in Mathematics**

**Module name**  
Undergraduate Thesis I (Literature Study)

**Module level, if applicable**  
Bachelor

**Code, if applicable**  
MMM-4097

**Subtitle, if applicable**  
-

**Courses, if applicable**

**Semester(s) in which the module is taught**  
7th (seventh) or 8th (eighth)

**Person responsible for the module**  
Head of the Study Programme

**Lecturer(s)**  
Supervisor(s)

**Language**  
Bahasa Indonesia or English

**Relation to curriculum**  
Compulsary course in the fourth year (7th or 8th semester) Bachelor Degree

**Type of teaching, contact hours**  
150 minutes consultation and 180 minutes structured activities per week.

**Workload**  
Total workload is 136 hours per semester, which consists of 150 minutes consultation per week, 180 minutes structured activities per week, 180 minutes individual study per week, in total is 16 weeks per semester.

**Credit points**  
3

**Requirements according to the examination regulations**  
There is no specific exam. The student has to present and write a report of the result.

**Recommended prerequisites**  
Students who take the Undergraduate Thesis I have to fulfill the following requirements:

i. The CGPA of all courses taken has been greater than or equal to 2.00.

ii. Have taken at least 120 Credits (without grade E and percentage of credits with grade D is at most 25%).

iii. Have taken/are taking courses supporting the topic of the Undergraduate Thesis. Students who are going to take or taking Undergraduate Thesis with topic in Applied Mathematics are required to take at least one directed elective course of Applied Mathematics (marked by ♥) that fits to the topic of the Undergraduate Thesis: Dynamical System, Introduction to Optimization Theory, and Introduction to System Theory. The minimum grades of those courses are C.

iv. Include Undergraduate Thesis in Student study load (KRS) and register it to the Secretariat of UP-Math no later than one week after the KRS submission.

**Module objectives/intended learning outcomes**  
Upon successful completion, students will be able to:

CO1. conduct independent study of a particular topic,

CO2. utilize mathematical power that has been studied in previous courses,

CO3. have self-confidence, good ethics, and good performance in communication

**Content**  
Topic is appointed by supervisor(s) or student.

**Study and examination requirements and forms of examination**  
The final mark will be decided by considering some criteria:

- Ability and self-independency,
- Effort and perseverance,
- Content mastery, including the logic,
- Communication skill, self-confidence, and ethics.

The minimal grade for the Undergraduate Thesis I is C. **Assessment form is attached.**

**Media employed**  
White Board, paper, Laptop/Computer

**Reading List**  
Books or journals related to the topics.
## PLO and CO Mapping

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FORMULIR PENILAIAN/ FORM OF ASSESSMENT
TUGAS AKHIR I/ UNDERGRADUATE THESIS I
(MMS-4091): 3 SKS / 3 Credits

Yang bertanda tangan di bawah ini menerangkan bahwa mahasiswa/ The undersigned below states that the student with
Nama/ Name : .................................................................
NIM/ Student ID : ............................................................
Program Studi/ Study Programme : ........................................

Telah menyelesaikan Tugas Akhir Studi Literatur (MMM - 4091 / 3 SKS) / Has finished Undergraduate Thesis I
Dengan Topik/ with topic : .................................................................

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<thead>
<tr>
<th>Komponen yang dinilai / Component of Assessment</th>
<th>Nilai Maksimum / Maximum score</th>
<th>Nilai / Score</th>
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<tr>
<td>Kecakapan dan Kemandirian/ Ability and independency</td>
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<td>Usaha dan Ketekunan/ Effort and preseverance</td>
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<td>Penguasaan materi utama/ Content mastery</td>
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<td>Kemampuan berkomunikasi, kepercayaan diri, dan etika/ Communication skill, self-confidence, and ethics</td>
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Nilai Akhir (Final Score) = P% \times 4 = ...... (Nilai Angka)

Nilai huruf (grade)= ........................................

Yogyakarta,.................................

Dosen Pembimbing Tugas Akhir I
Supervisor of UT I

(..........................)
# FORMULIR PENILAIAN / FORM OF ASSESSMENT

TUGAS AKHIR I/ UNDERGRADUATE THESIS I

(MMS-4091): 3 SKS/ 3 Credits

| Nama / Name | ________________________________ |
| NIM / Students ID | ________________________________ |
| Topik TA / Topic of Final Project | ________________________________ |
| Pembimbing I / Supervisor I | ________________________________ |

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<thead>
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<td>Kecakapan dan Kemandirian / Ability and self-independency (Nilai maksimum 20) (Maximum score 20)</td>
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Yogyakarta, ....................................

Dosen Pembimbing Tugas Akhir I

Supervisor

(.................................)