**Undergraduate Programme in Mathematics**

**Module name** | Introduction to Boundary Value Problems
---|---
**Module level**, if applicable | Bachelor
**Code, if applicable** | MMM-3307
**Subtitle, if applicable** | -
**Courses, if applicable** | Introduction to Boundary Value Problems
**Semester(s) in which the module is taught** | 5th (fifth)
**Person responsible for the module** | Chair of the Lab. of Applied Mathematics
**Lecture(s)** | Drs. Moch Tari, M.Si
**Language** | Bahasa Indonesia
**Relation to curriculum** | Elective course in the third year (5th semester) Bachelor Degree
**Type of teaching, contact hours** | 150 minutes lectures and 180 minutes structured activities per week.
**Workload** | Total workload is 136 hours per semester, which consists of 150 minutes lectures per week for 14 weeks, 180 minutes structured activities per week, 180 minutes individual study per week, in total is 16 weeks per semester, including mid exam and final exam.
**Credit points** | 3
**Requirements according to the examination regulations** | Students have taken Introduction to Boundary Value Problems course (MMM-3307) and have an examination card where the course is stated on.
**Recommended prerequisites** | Students have taken Introduction to partial differential equations course (MMM-2310) and have participated in the final examination of the course.
**Module objectives/intended learning outcomes** | After completing this course the students have ability to
  - CO1 classify linear second order PDE's
  - CO2 model the vibrating string and solve the model
  - CO3 solve boundary value problem by Fourier-Legendre series


**Study and examination requirements and forms of examination**
<table>
<thead>
<tr>
<th>No</th>
<th>Assessment methods (components, activities)</th>
<th>Weight (percentage)</th>
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<tbody>
<tr>
<td>1</td>
<td>Final Examination</td>
<td>40%</td>
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<td>2</td>
<td>Mid-Term Examination</td>
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<td>3</td>
<td>Class Activities: Quiz, Homework, etc.</td>
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The initial cut-off points for grades A, B, C, and D should not be less than 80%, 70%, 50%, and 40%, respectively.

**Media employed** | White/Black Board, LCD Projector, Laptop/Computer

**Reading List**
### PLO and CO Mapping

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