UNIVERSITAS GADJAH MADA
Faculty of Mathematics and Natural Sciences
Mathematics Department
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## Undergraduate Programme in Mathematics

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| Module name | Advanced Calculus |
| :--- | :--- |
| Module level, if applicable | Bachelor |
| Code, if applicable | MMM-2111 |
| Subtitle, if applicable | - Advanced Calculus |
| Courses, if applicable | $4^{\text {th }}$ (fourth) |
| Semester(s) in which the <br> module is taught | Chair of the Lab. of Analysis |
| Person responsible for the <br> module | Drs. Yusuf, M.A. |
| Lecturer | Indonesia |
| Language | Compulsary course in the second year (4th semester) Bachelor Degree |
| Relation to curriculum | 100 minutes lectures and 120 minutes structured activities (homework and task) per <br> week. |
| Type of teaching, contact <br> hours | Total workload is 90.67 hours per semester, which consists of 100 minutes lectures <br> per week for 14 weeks, 120 minutes structured activities per week, 120 minutes <br> individual study per week, in total is 16 weeks per semester, including mid exam and <br> final exam. |
| Workload | 2 |
| 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-board, Laptop, LCD Projector |
| Reading List | 1. John Srdjan Petrovic, 2014, Advanced Calculus: Theory and Practice (Textbookes in Mathematics) 1 st Edition, CRC Press, Taylor \& Francis Group. <br> 2. Robert G. Bartle and Donald R. Sherbert, 2011, Introduction to Real Analysis, 4 ${ }^{\text {th }}$ Edition, John Wiley and Sons. <br> 3. Angus E. Taylor, 1989, Advanced Calculus, Blaisdell. <br> 4. William R. Parzynski, and Philip W. Zipse, 1982, Introduction to Mathematical Analysis, McGraw-Hill Book Company, New York. |

## PLO and CO Mapping

|  | PLO 1 | PLO 2 | PLO 3 | PLO 4 | PLO 5 | PLO 6 | PLO 7 | PLO 8 | PLO 9 |
| :--- | :---: | :---: | :---: | :---: | :--- | :--- | :--- | :--- | :--- |
| CO 1 |  | v | v |  |  |  |  |  |  |
| CO 2 |  |  | v |  |  | V |  |  |  |
| CO 3 |  | v | v |  |  |  |  |  |  |
| CO 4 |  |  | v |  |  |  |  |  |  |
| CO 5 |  |  |  |  |  | V |  |  |  |

