



UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF MATHEMATICS EDUCATION

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Bachelor of Education in Mathematics

MODULE HANDBOOK

Module name:	Solid Analytic Geometry
Module level, if applicable:	Undergraduate
Code:	MAA6205
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	4 th
Module coordinator:	Himmawati Puji Lestari, M.Si
Lecturer(s):	Himmawati Puji Lestari, M.Si, Murdanu, M.Pd
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory course
Teaching format / class hours per week during the semester:	100 minutes lectures and 120 minutes structured activities per week.
Workload:	Total workload is 90.67 hours per semester which consists of 100 minutes lectures, 120 minutes structured activities, and 120 minutes self study per week for 16 weeks.
Credit points:	2
Prerequisites course(s):	Plane Analytic Geometry (MAA6204)
Course outcomes:	After taking this course the students have ability to: CO1. Demonstrate respect for the opinions of others through various forms of equations in mathematics CO2. Communicate ideas in solving mathematical problems in writing or verbally CO3. Explain the concepts of analytical geometry in the plane geometry and advanced plane geometry

	CO4. Solve problems of geometry concepts in solid geometry and advanced solid geometry analytically CO5. Develop ICT-based instructional media for solid analytic geometry learning																									
Content:	This course discusses geometric elements, surface and their relationships in three dimensions (3-dimensional Coordinate System, Plane, Line, Sphere, Paraboloida, Ellipsoida, and Hyperboloida) using algebraic language.																									
Study / exam achievements:	<p>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 attitude if they show it significantly compared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of the requirements to pass the course. Students will pass from this course if at least have a good attitude.</p> <p>The final mark will be weight as follow:</p> <table border="1"> <thead> <tr> <th>No</th> <th>CO</th> <th>Assessment Object</th> <th>Assessment Technique</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CO 2</td> <td>Presentation</td> <td>Observation</td> <td>10%</td> </tr> <tr> <td>2</td> <td>CO 3 CO 4</td> <td>a. Individual assignment b. Group assignment c. quiz d. mid test e. final test</td> <td>Written</td> <td>10% 10% 20% 20% 25%</td> </tr> <tr> <td>3</td> <td>CO 5</td> <td>Media</td> <td>Observation</td> <td>5%</td> </tr> <tr> <td colspan="4">Total</td> <td>100%</td> </tr> </tbody> </table>	No	CO	Assessment Object	Assessment Technique	Weight	1	CO 2	Presentation	Observation	10%	2	CO 3 CO 4	a. Individual assignment b. Group assignment c. quiz d. mid test e. final test	Written	10% 10% 20% 20% 25%	3	CO 5	Media	Observation	5%	Total				100%
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3	CO 5	Media	Observation	5%																						
Total				100%																						
Forms of media:	Board, LCD Projector, Laptop/Computer																									
Literature:	<ol style="list-style-type: none"> 1. Kletenic C, D. 1969. Problems in Analytic Geometry. Moscow : Peace Publishers. 2. Morrill, W.K. 1964. Analytic Geometry. Scranton, Pennsylvania : International textbook Company. 3. Sharma, G.C & Madhu, J. 2003. Coordinate Geometry 2-D and 3-D (For Graduate, Engineering & Competitive Examining). New Delhi. 4. Himmawati P.L. 2018. Handout Geometri Analitik. 																									

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO 10	PLO11	PLO12
CO1		√										
CO2			√									
CO3					√							
CO4							√					
CO5										√		