



UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF MATHEMATICS EDUCATION

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Bachelor of Science in Mathematics

MODULE HANDBOOK

Module name:	Analytic Geometry
Module level,if applicable:	Undergraduate
Code:	MAT6312
Sub-heading,if applicable:	-
Classes,if applicable:	-
Semester:	3 rd
Module coordinator:	Himmawati Puji Lestari, M.Si
Lecturer(s):	Himmawati Puji Lestari, M.Si
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory course
Teaching format / class hours perweek during the semester:	150 minutes lectures and 180 minutes structured activities per week.
Workload:	Total workload is 136 hours per semester which consists of 150 minutes lectures, 180 minutes structured activities, and 180 minutes self-study per week for 16 weeks.
Creditpoints:	3
Prerequisites course(s):	Solid Geometry (MAT6206)
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. Solve analytical geometry problems systematically or in various ways through group discussion forums CO3. Explain concepts and solve problems in analytic geometry of both on plane and solid CO4. Solve the problem of analytic geometry by exploring geometric objects and generalizing geometry of

	planetogeometry of space																				
Content:	This course includes geometry objects in the two dimensions and three dimensions which are discussed analytically, using algebraic language. Objects in the plane geometry include coordinate systems in two dimensions, lines, circles, and conic sections. Objects in the solid geometry include coordinate systems in three dimensional spaces, planes, lines, and spheres.																				
Study/exam achievements:	<p>CO1: 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 1</td> <td>a. Presentation b. Discussion</td> <td>Observation</td> <td>5% 10%</td> </tr> <tr> <td>2</td> <td>CO 2, CO 3, CO 4</td> <td>a. Individual assignment b. Group assignment c. Quiz d. Midterm e. Final test</td> <td>Written</td> <td>10% 10% 20% 20% 25%</td> </tr> <tr> <td colspan="4">Total</td> <td>100%</td> </tr> </tbody> </table>	No	CO	Assessment Object	Assessment Technique	Weight	1	CO 1	a. Presentation b. Discussion	Observation	5% 10%	2	CO 2, CO 3, CO 4	a. Individual assignment b. Group assignment c. Quiz d. Midterm e. Final test	Written	10% 10% 20% 20% 25%	Total				100%
No	CO	Assessment Object	Assessment Technique	Weight																	
1	CO 1	a. Presentation b. Discussion	Observation	5% 10%																	
2	CO 2, CO 3, CO 4	a. Individual assignment b. Group assignment c. Quiz d. Midterm e. Final test	Written	10% 10% 20% 20% 25%																	
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
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PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CO1		√								
CO2			√							
CO3					√					
CO4						√				