



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:	Geometry Systems
Module level,if applicable:	Undergraduate
Code:	MAT6348
Sub-heading,if applicable:	-
Classes,if applicable:	-
Semester:	6 th
Module coordinator:	Himmawati Puji Lestari, M.Si
Lecturer(s):	1. Himmawati Puji Lestari, M.Si 2. Murdanu, M.Pd
Language:	Bahasa Indonesia
Classification within the curriculum:	Elective 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):	Plane Geometry (MAT6203)
Course outcomes:	After taking this course the students have ability to: CO1. Demonstrate respect for the opinions of others through discussion of various systems og geometry CO2. Compare concepts that exist in various systems of geometry systematically through group discussion

	CO3. Explain concepts and principles in various systems of geometry CO4. Compare concepts and theorems in various systems of geometry																														
Content:	This course discusses Geometry as a deductive system, consisting of Ordered Geometry, Affine Geometry, Absolute Geometry, Hyperbolic Geometry, Elliptic Geometry, which is compared with Euclidean Geometry.																														
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 rowspan="2">1</td> <td rowspan="2">CO 2</td> <td>a. Presentation</td> <td rowspan="2">Observation</td> <td>5%</td> </tr> <tr> <td>b. Discussion</td> <td>10%</td> </tr> <tr> <td rowspan="5">2</td> <td rowspan="5">CO 3 CO 4</td> <td>a. Individual assignment</td> <td rowspan="5">Written</td> <td>10%</td> </tr> <tr> <td>b. Group assignment</td> <td>10%</td> </tr> <tr> <td>c. Quiz</td> <td>20%</td> </tr> <tr> <td>d. Mid test</td> <td>20%</td> </tr> <tr> <td>e. Final test</td> <td>25%</td> </tr> <tr> <td colspan="4">Total</td> <td>100%</td> </tr> </tbody> </table>	No	CO	Assessment Object	Assessment Technique	Weight	1	CO 2	a. Presentation	Observation	5%	b. Discussion	10%	2	CO 3 CO 4	a. Individual assignment	Written	10%	b. Group assignment	10%	c. Quiz	20%	d. Mid test	20%	e. Final test	25%	Total				100%
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		d. Mid test		20%																											
		e. Final test		25%																											
Total				100%																											
Forms of media:	Board, LCD Projector, Laptop/Computer																														
Literature:	<ol style="list-style-type: none"> Moeharti Hw. 1986. <i>Sistem-Sistem Geometri</i>. Jakarta :Karunika Jakarta – Universitas Terbuka. Grennberg Marvin Jay. 1980. <i>Euclidean and Non Euclidean Geometries</i>. San Fransisco :WH.Freeman and Company. C. Adler, Claire Fisher. 1987. <i>Modern Geometry</i>. New 																														

	York :McGraw Hill Book Company.
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PLO and CO mapping

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