



**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:	Systems of Geometry
Module level, if applicable:	Undergraduate
Code:	MAT6348
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	6 <sup>th</sup>
Module coordinator:	Himmawati Puji Lestari, M.Si
Lecturer(s):	Himmawati Puji Lestari, M.Si. Murdanu, M.Pd
Language:	Bahasa Indonesia
Classification within the curriculum:	Elective course
Teaching format / class hours per week 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.
Credit points:	3
Prerequisites course(s):	Plane Geometry (MAA6303)
Course outcomes:	After taking this course the students have ability to: CO1. Demonstrate responsibility and independence in working on assignments CO2. Demonstrate activity and cooperation in comparing concepts that exist in various systems of geometry CO3. Explain concepts and principles in various systems of geometry

	CO4. Compare concepts and theorems in various geometry systems and apply Euclidean Geometry at school																				
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>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>a. Presentation b. Discussion</td> <td>Observation</td> <td>5% 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% 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 b. Discussion	Observation	5% 10%	2	CO 3 CO 4	a. Individual assignment b. Group assignment c. Quiz d. Mid test e. Final test	Written	10% 10% 20% 25%	Total				100%
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2	CO 3 CO 4	a. Individual assignment b. Group assignment c. Quiz d. Mid test e. Final test	Written	10% 10% 20% 25%																	
Total				100%																	
Forms of media:	Board, LCD Projector, Laptop/Computer																				
Literature:	<ol style="list-style-type: none"> <li>MoehartiHw. 1986. Sistem-SistemGeometri. Jakarta :Karunika Jakarta – Universitas Terbuka.</li> <li>Grennberg Marvin Jay. 1980. Euclidean and Non Euclidean Geometries. San Fransisco :WH.Freeman and Company.</li> <li>C. Adler, Claire Fisher. 1987. Modern Geometry. New York :McGraw Hill Book Company.</li> </ol>																				

### PLO and CO mapping

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