



# UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES  
DEPARTMENT OF MATHEMATICS EDUCATION

Jalan Colombo Nomor 1 Yogyakarta 55281

Telepon: (0274) 565411 Pesawat 217, (0274) 565411 (TU); Fax. (0274) 548203

Laman: fmipa.uny.ac.id, E-mail: humas\_fmipa@uny.ac.id

## Bachelor of Education in Mathematics

## MODULE HANDBOOK

Module name:	Plane Geometry
Module level, if applicable:	Undergraduate
Code:	MAA6303
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	1 <sup>st</sup>
Module coordinator:	Nila Mareta Murdiyani, M.Sc.
Lecturer(s):	Nila Mareta Murdiyani, M.Sc; Dr. Ali Mahmudi
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory 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):	-
Course Outcomes	<p>After taking this course the students have ability to:</p> <p>CO1. Demonstrate collaborative attitude and respect the opinions of others in carrying out individual tasks and group assignments</p> <p>CO2. Communicate ideas in solving mathematical problems verbally and in writing</p> <p>CO3. Master the concepts of plane geometry in deductive axiomatic</p> <p>CO4. Explore and prove the theorems of plane geometry in deductive axiomatic</p> <p>CO5. Solve the problems of plane geometry in deductive axiomatic</p>

Content:	This course discusses the basic objects in geometry, angle, parallelism, triangle, quadrilateral, congruence, similarity, geometric construction, area and perimeter, polygons, Pythagorean Theorem, and circle.																				
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, and CO 5</td> <td>a. Individual Assignment b. Group Assignment c. Quiz d. Mid e. Final Exam</td> <td>Written test</td> <td>10% 10% 15% 25% 30%</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, and CO 5	a. Individual Assignment b. Group Assignment c. Quiz d. Mid e. Final Exam	Written test	10% 10% 15% 25% 30%	Total				100%
No	CO	Assessment Object	Assessment Technique	Weight																	
1	CO 2	Presentation	Observation	10%																	
2	CO 3, CO 4, and CO 5	a. Individual Assignment b. Group Assignment c. Quiz d. Mid e. Final Exam	Written test	10% 10% 15% 25% 30%																	
Total				100%																	
Forms of media:	Board, LCD Projector, Laptop/Computer, Ruler, Compass																				
Literatures:	<ol style="list-style-type: none"> <li>1. Rich, Barnet. 1999. <i>Schaum's outline of Theory and Prople Geometry</i>. New York: Mc-graw Hill.</li> <li>2. Glencoe. 2001. <i>GEOMETRY, Concepts and Applications. T Wraparound Egdition</i>. USA: McGraw Hill Company Inc.</li> <li>3. Serra, Michael. 2008. <i>Discovering Geometry: An Investigat Approach</i>. USA: Key Curriculum Press.</li> <li>4. Sugiyono. 2016. <i>Geometri Bidang</i>. Yogyakarta: UNY.</li> </ol>																				

### PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
CO1		✓										
CO2				✓								
CO3					✓							
CO4						✓						
CO5							✓					