



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:	Plane Geometry
Module level,if applicable:	Undergraduate
Code:	MAT6203
Sub-heading,if applicable:	-
Classes,if applicable:	-
Semester:	1 st
Module coordinator:	Nila Mareta Murdiyani, M.Sc.
Lecturer(s):	1. Nila Mareta Murdiyani,M.Sc; 2. Dr. Ali Mahmudi
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory Course
Teaching format / class hours perweek 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.
Creditpoints:	2
Prerequisites course(s):	-
Course Outcomes	After taking this course the students have ability to: CO1. demonstrate collaborative attitude and respect the opinions of others in carrying out individual tasks and group assignments CO2. communicate ideas in solving mathematical problems verbally and in writing

	<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>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 2</td> <td>Presentation</td> <td>Observation</td> <td>10%</td> </tr> <tr> <td rowspan="5">2</td> <td rowspan="5">CO 3, CO 4, and CO 5</td> <td>a. Individual Assignment</td> <td rowspan="5">Written test</td> <td>10%</td> </tr> <tr> <td>b. Group Assignment</td> <td>10%</td> </tr> <tr> <td>c. Quiz</td> <td>15%</td> </tr> <tr> <td>d. Mid</td> <td>25%</td> </tr> <tr> <td>e. Final Exam</td> <td>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	Written test	10%	b. Group Assignment	10%	c. Quiz	15%	d. Mid	25%	e. Final Exam	30%	Total				100%
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Total				100%																									
Forms of media:	Board, LCD Projector, Laptop/Computer, Ruler, Compass																												
Literatures:	<ol style="list-style-type: none"> Rich, Barnett. 1999. <i>Schaum's outline of Theory and Pro Geometry</i>. New York: Mc-graw Hill. Glencoe. 2001. <i>GEOMETRY, Concepts and Applications. Wraparound Egdition</i>. USA: McGraw Hill Company Inc. Serra, Michael. 2008. <i>Discovering Geometry: An Inv</i> 																												

	<p><i>Approach</i>. USA: Key Curriculum Press.</p> <p>4. Sugiyono. 2016. <i>Geometri Bidang</i>. Yogyakarta: UNY.</p>
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PLO and CO mapping

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