



UNIVERSITAS NEGERI YOGYAKARTA
GRADUATE SCHOOL
MASTER OF EDUCATION IN MATHEMATICS

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Master of Education in Mathematics

MODULE HANDBOOK

Module name:	Geometry
Module level,ifapplicable:	Graduate
Code:	PMA8208
Sub-heading,ifapplicable:	-
Classes,ifapplicable:	A, B, and C
Semester:	3 rd
Module coordinator:	Dr. Ali Mahmudi
Lecturer(s):	Dr. Ali Mahmudi, Dr. Sugiman
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory Course
Teaching format	Lecture: face-to-face learning, presentation and discussion, quiz Structured Activities: individual assignment, group assignment
Workload:	Lecture: 100 minutes/week Structured Activities: 120 minutes/week Self-Study: 120 minutes/week Total: 5440 minutes/semester or 90.67 hours/semester
Creditpoints:	2
Prerequisites course(s):	-
Course Outcomes	After taking this course the students have ability to: CO1. Explain the concept of Euclid Geometry though in Secondary school. CO2. Analyze axioms of ordered geometry, axiom of Pasch, axiom of dimensionality, Dedekind's axiom, and Hilbert's axioms of order CO3. Understand branch of geometry, such as neutral

	geometry, non-Euclid Geometry, Hyperbolics Geometry, and Fractal Geometry																									
Content:	Geometry course develops student ability about axiomatics and deductive reasoning. Geometry topics consist of Euclid Geometry and No-EuclidGeometry in deductive and rigorous way.																									
Study/examachievements:	The final mark will be weight as follow: <table><tr><th>No</th><th>CO</th><th>Assessment Object</th><th>Assessment Technique</th><th>Weight</th></tr><tr><td rowspan="5">1</td><td>CO1</td><td>a. Individual Assignment</td><td rowspan="5">Presentation / written test</td><td>15%</td></tr><tr><td>CO2</td><td>b. Group Assignment</td><td>15%</td></tr><tr><td>CO3</td><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></table>	No	CO	Assessment Object	Assessment Technique	Weight	1	CO1	a. Individual Assignment	Presentation / written test	15%	CO2	b. Group Assignment	15%	CO3	c. Quiz	15%	d. Mid	25%	e. Final Exam	30%	Total				100%
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	d. Mid	25%																								
	e. Final Exam	30%																								
Total				100%																						
Formsof media:	Board, LCD Projector, Laptop/Computer																									
Literature:	1. Greenberg, M.J. (1980). <i>Euclidean and non-euclidean geometries: Development and history</i> (2nd ed.). San Francisco, CA: W.H.Freeman and Company. 2. Coxeter, H.S.M. (1969). <i>Introduction to geometry</i> (2nd ed.). New York, NY: John Wiley & Sons.																									

PLO and CO mapping

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