



Module Handbook

Module Name :	<i>Sistem Geometri</i> System of Geometry
Module level :	Bachelor degree/Undergraduate Program
Course Code :	4420103120
Abbreviation, if applicable:	-
Courses included in the module, if applicable:	Not Applicable
Semester/Term	5 th / third year
Module coordinator(s)	Prof. Dr. Dwi Juniati, M.Si.
Lecturer(s):	Dr. Agung Lukito, M.S Rudianto Artiono, M.Si. Muhammad Jakfar, M.Si.
Language:	Bahasa Indonesia (Indonesian Language)
Classification within the curriculum:	Compulsory / Elective
Teaching format/class hours per week during the semester:	3 contact hours of lectures (<i>sks</i> or credit unit*)
Workload :	3 x 50 minutes lectures, 3 x 60 minutes structured activity, and 3 x 60 minutes individual activity per week, 14 weeks per semester 119 total hours per semester ~ 4.77 ECTS**
Credit Unit:	3 credit unit (4.77 ECTS)
Requirements:	Foundation of Mathematics



Learning goals/competencies:	<p>Knowledge (KNO-1): Demonstrating mathematical knowledge and mathematical insight.</p> <ul style="list-style-type: none"> • CLO-1 : Develop mathematical thinking which begins from an understanding of euclid geometry to non euclid geometry. <p>Skill (SKI-3): Analyzing the formal structure of mathematical problems and relevant fields.</p> <ul style="list-style-type: none"> • CLO-2: Analyzing the formal structure of euclid geometry and non euclid geometry problems.
Content	Euclid Geometry, Ordered Geometry, Affine Geometry, Euclid's Parallel Concept, Projective Geometry, Incidence Geometry, Neutral Geometry, Lobachevski Geometry, Riemann Geometry, Fano Geometry, Origami Geometry and Taxicab Geometry

Attribute Soft skill:	Active communication; Discipline; Collaboration; Responsibility; and Argumentation in class.											
Study/exam achievements:	The final grade (<i>NA</i>) is calculated based on the following ratio: <table border="1" data-bbox="539 1339 1345 1664"> <thead> <tr> <th data-bbox="539 1339 943 1406">Assessment Components</th> <th data-bbox="943 1339 1345 1406">Percentage of contribution</th> </tr> </thead> <tbody> <tr> <td data-bbox="539 1406 943 1473">Participation</td> <td data-bbox="943 1406 1345 1473">20%</td> </tr> <tr> <td data-bbox="539 1473 943 1541">Assignment</td> <td data-bbox="943 1473 1345 1541">30%</td> </tr> <tr> <td data-bbox="539 1541 943 1608">Mid-semester test</td> <td data-bbox="943 1541 1345 1608">20%</td> </tr> <tr> <td data-bbox="539 1608 943 1664">Final semester test</td> <td data-bbox="943 1608 1345 1664">30%</td> </tr> </tbody> </table>		Assessment Components	Percentage of contribution	Participation	20%	Assignment	30%	Mid-semester test	20%	Final semester test	30%
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	<p>Grade conversion of 0-100 scale into 0-4 scale is set as below:</p> <table border="1"><thead><tr><th>Letter</th><th>Number</th><th>Grade Interval</th></tr></thead><tbody><tr><td>A</td><td>4,00</td><td>$85 \leq A \leq 100$</td></tr><tr><td>A-</td><td>3,75</td><td>$80 \leq A- < 85$</td></tr><tr><td>B+</td><td>3,50</td><td>$75 \leq B+ < 80$</td></tr><tr><td>B</td><td>3,00</td><td>$70 \leq B < 75$</td></tr><tr><td>B-</td><td>2,75</td><td>$65 \leq B- < 70$</td></tr><tr><td>C+</td><td>2,50</td><td>$60 \leq C+ < 65$</td></tr><tr><td>C</td><td>2,00</td><td>$55 \leq C < 60$</td></tr><tr><td>D</td><td>1,00</td><td>$40 \leq D < 55$</td></tr><tr><td>E</td><td>0,00</td><td>$0 \leq E < 40$</td></tr></tbody></table>	Letter	Number	Grade Interval	A	4,00	$85 \leq A \leq 100$	A-	3,75	$80 \leq A- < 85$	B+	3,50	$75 \leq B+ < 80$	B	3,00	$70 \leq B < 75$	B-	2,75	$65 \leq B- < 70$	C+	2,50	$60 \leq C+ < 65$	C	2,00	$55 \leq C < 60$	D	1,00	$40 \leq D < 55$	E	0,00	$0 \leq E < 40$
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Learning Methods :	Student-centered approach; project-based learning; lecturer and discussion; and presentations (structured activities)																														
Form of Media:	Power point slides; video; worksheets, and textbooks																														
Literature (primary references):	<ol style="list-style-type: none">1. Budiarto, M.T. 2014. Sistem Geometri. Surabaya: Zifatama Publishing.2. Prenowits, W., Meyer. J. 1989. Basic Concepts of Geometry. Toronto: Xerox Collage Publishing																														
Notes:	*1 credit unit or <i>sks</i> in learning process = three periods consist of: (a) scheduled instruction in a classroom or laboratory (50 minutes); (b) structured activity (60 minutes); and (c) individual activity (60 minutes) according to the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 44 Year 2015 jo. the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 50 Year 2018.																														



MINISTRY OF EDUCATION, CULTURE, RESEARCH, AND TECHNOLOGY

UNIVERSITAS NEGERI SURABAYA

FACULTY OF MATHEMATICS AND NATURAL SCIENCE

UNDERGRADUATE PROGRAM OF MATHEMATICS

Ketintang Campus, C8-C9 Buildings of FMIPA, Surabaya

Email: s1-mat@unesa.ac.id

<p>**1 credit unit or <i>sks</i> = 1.59 ECTS according to Rector Decree Of Universitas Negeri Surabaya No. 598/UN38/HK/AK/2019</p>
