



MINISTRY OF EDUCATION, CULTURE, RESEARCH, AND TECHNOLOGY
UNIVERSITAS NEGERI JAKARTA
FACULTY OF MATHEMATICS AND NATURAL SCIENCE

Jl. Rawamangun Muka, RT 11/RW14, Rawamangun, Pulo Gadung
 East Jakarta City, Special Capital Region Of Jakarta 13220
 Email: pend.mat@unj.ac.id, <http://fmipa.unj.ac.id/penmat>

Transformation Geometry

Module Name	Course Modul
Module Level	Program Sarjana
Code, if applicable	3115-043-3
Sub-title, if applicable	-
Courses, if applicable	Transformation Geometry
Semester(s) in which the module is taught	<i>5th</i>
Person responsible for the module	Lecturer
Lecturer (s)	Leny Dhianti Haeruman, M. Pd
Language	Bahasa Indonesia
Relation to Curriculum	Study Programme's Compulsory Courses
Type of teaching, contact hours	The teaching methods used in this course are: <ul style="list-style-type: none"> - Learning activity (group discussion, case study, and video based learning) - Structure task (esai dan case study) - Project based learning
Workload	Total workload is 136 hour (4,5 ECTS) per semester, which consists of 40 hours learning activity, 48 hour for structure task and 48 hours individual learning
Credit Points	3 SKS (4,5 ECTS)
Requirements according to the examination regulations	Students must attend all lectures and submit all individual and group assignments scheduled before the final exam.



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Recommended prerequisites											
Program intended learning outcomes	<p>PLO-5. Able to master the basics of mathematical theoretical concepts, including mathematical logic, discrete mathematics, algebra, analysis and geometry as well as probability theory and statistics</p> <p><i>Course Learning Outcomes (CLO) yang ingin dicapai pada mata kuliah ini yaitu:</i></p> <p>CLO 1 : Mastering the concept of isometric transformation</p> <p>CLO 2 : Mastering the concept of non-isometry transformation</p> <p>CLO 3 : Mastering the concept of product of transformation</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 5px;">CLO</th> <th style="padding: 5px;">PLO</th> </tr> <tr> <td></td> <th style="padding: 5px;">5</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">1</td> <td style="background-color: #cccccc;"></td> </tr> <tr> <td style="padding: 5px;">2</td> <td style="background-color: #cccccc;"></td> </tr> <tr> <td style="padding: 5px;">3</td> <td style="background-color: #cccccc;"></td> </tr> </tbody> </table>	CLO	PLO		5	1		2		3	
CLO	PLO										
	5										
1											
2											
3											
Content	<p>1. The concept of isometric transformation</p> <p>2. The concept of transformation is not isometry</p>										



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	3. The concept of the product of transformations
Forms of Assessment	Assessment of the learning process according to the following components: Final Examination 40%, Middle Examination 30%, assignments 30%
Study and examination requirements and forms of examination	<p>Study and examination requirements:</p> <ul style="list-style-type: none"> - Students must be present 15 minutes before class starts. - Students must turn off all electronic devices. - Students are required to notify the lecturer if they are absent from class due to illness, etc. - Students must turn in all classwork before the deadline. - Students must take the exam to get the final grade. <p>Form of examination:</p> <p>Written Exam</p>
Media employed	laptop, Internet, LCD, Whiteboard, Zoom/GoogleTemui/Tim Microsoft, LMS.
Reading list	<p>Main Reference</p> <p>Eccles (1985). <i>Transformation Geometry</i>. Springer Verlag, Inc.</p> <p>Susanto,B. (1990).<i>Geometri Transformasi</i>. Jogyakarta: FMIPA UGM</p>