Module Description/Course Syllabi

Study Programme: Bachelor of Mathematics
Faculty of Mathematics and Natural Sciences
Universitas Andalas

1. ***Course number and name***

MAT61222 Euclid Geometry

2. ***Credits and contact hours/Number of ECTS credits allocated***

3 sks / 4,53 ECTS

3. ***Instructors and course coordinator***

1. Dr. Haripamyu 2. Efendi, M.Si,

4. ***Text book, title, author, and year***

1 Patrick J. Ryan, Euclidean and non-Euclidean Geometry, an Analytic Approach , Cambridge Univ. Press, 1986

5. ***Recommended reading and other learning resources/tools***

Other relevances sources

6. ***Specific course information***

A. Brief description of the content of the course (catalog description)

By concise fill eye studying This is discuss geometry Euclid plane , including line, reflection , congruence , isometric , translation , rotation , reflection slide , period fixed and fixed line from isometric. Transformation affine to the field Euclid , Geometry Euclid dimensions three .

B. Prerequisites or co-requisites
Geometry Analytics , Elementary Linear Algebra
C. Indicate whether a required or elective course in the program
Elective
D. Level of course unit (according to EQF: first cycle Bachelor, second cycle Master)
First Cycle Bachelor
E. Year of study when the course unit is delivered (if applicable)
1Year
F. Semester when the course unit is delivered
Odd Semester
G. Mode of delivery (face-to-face, distance learning)
Face to face

7. *Intended Learning Outcomes*
ILO-2: Possesses profound knowledge of the basic concept of mathematics. PI-1: Able to explain the basic concepts of mathematics; PI-2: Able to provide examples that are relevant to the basic concepts of mathematics; PI-3: Able to determine simple problem solutions using basic mathematical concepts.

ILO-3: An ability to identify, explain and generalize simple mathematics. PI-1: Able to identify simple math problems; PI-2: Be able to explain simple math problems.
ILO-4: An ability to use concepts and fundamental techniques of mathematics in solving simple mathematical problems. PI-1: Able to choose the right basic mathematical concepts and techniques in solving simple math problems; PI-2: Able to illustrate simple mathematical problems based on appropriate basic mathematical concepts and techniques.
ILO 5: An ability to formally and correctly prove simple mathematical statements using facts and methods that have been studied. PI-1: Be able to identify formal structures and forms of analogy in mathematics; PI-2: Able to use facts and apply methods in proving simple mathematical statements; PI-3: Able to present a rigorous proof of simple mathematical statements (with a trace and thorough).
8. ***Course Learning Outcomes***
1. Student capable explain draft Euclidean geometry , esp geometry Euclid's incidence and use of it in finish problem mathematics related .(CP-4:IK-1) 2. Student capable use draft Euclidean geometry , esp geometry Euclid's incidence in finish problem mathematics related .(CPL-4: IK-2, IK-3) 3. Student capable prove properties that apply to the plane / Euclidean space . (CPL-5: IK-1, IK-2, IK-3) 4. Students are able to explain the concept of Afin Transformation. (CPL-4:IK-1) 5. Students are able to use the concept of Afin Transformation in solving related mathematical problems. (CPL-4:IK-2, IK-3) 6. Students are able to communicate the results of their team discussions in the forum. (CPL-7: IK-1, IK-2, IK-3))
9. ***Brief list of topics to be covered***
Geometry Euclid plane , including line, reflection , congruence , isometric , translation , rotation , reflection slide , period fixed and fixed line from isometric. Transformation affine to the field Euclid , Geometry Euclid dimensions three .
10. Learning and teaching methods
Directed Learning, Teacher Center Learning

11. Language of instruction
Bahasa and English

12. Assessment methods and criteria
Summative Assessment : 1. Mid-term exam: 30% 2. Final exam: 40% 3. Quiz: 15% 4. Assignment: 15% **Formative Assessment**: