



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 .

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

<i>7. Intended Learning Outcomes</i>
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

<i>11. Language of instruction</i>
Bahasa and English

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