Module designation	*Analytic Geometry*
Semester(s) in which the module is taught	*2*
Person responsible for the module	*Himmawati Puji Lestari, M.Si*
Language	*Bahasa Indonesia*
Relation to curriculum	*Compulsory*
Teaching methods	*150 minutes lectures and 180 minutes structured activities per week.*
Workload (incl. contact hours, self-study hours)	*Total workload is 136 hours per semester which consists of 150 minutes lectures, 180 minutes structured activities, and 180 minutes self-study per week for 16 weeks.*
Credit points	*3*
Required and recommended prerequisites for joining the module	*MAT6303 Geometri*
Module objectives/intended learning outcomes	*After taking this course the students have ability to:* *CO1. Demonstrate respect for the opinions of others through various forms of equations in mathematics* *CO2. Solve analytical geometry problems systematically or in various ways through group discussion forums* *CO3. Explain concepts and solve problems in analytic geometry of both on plane and solid* *CO4. Solve the problem of analytic geometry by exploring geometric objects and generalizing geometry of planetogeometry of space*
Content	*This course includes geometry objects in the two dimensions and three dimensions which are discussed analytically, using algebraic language. Objects in the plane geometry include coordinate systems in two dimensions, lines, circles, and conic sections. Objects in the solid geometry include coordinate systems in three dimensional spaces, planes, lines, and spheres.*
Examination forms	*CO1: Attitude assessment is carried out at each meeting by observation and / or self-assessment techniques using the assumption that basically every student has a good attitude.*

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<tr>
<td>Study and examination requirements</td>
<td>
The student is given a value of very good or not good attitude if they show it significantly compared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of the requirements to pass the course. Students will pass from this course if at least have a good attitude.

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>1</td><td>CO 1</td><td>a. Presentation
b. Discussion</td><td>Observation</td><td>5%
10%</td></tr>
<tr><td>2</td><td>CO 2, CO 3, CO 4</td><td>a. Individual assignment
b. Group assignment
c. Quiz
d. Midterm
e. Final test</td><td>Written</td><td>10%
10%
20%
20%
25%</td></tr>
<tr><td colspan="4">Total</td><td>100%</td></tr>
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<td>Reading list</td>
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1. Kletenic C, D. 1969. Problems in Analytic Geometry. Moscow : Peace Publishers
2. Morrill, W.K. 1964. Analytic Geometry. Scranton, Pennsylvania : International textbook Company
3. Sharma, G.C & Madhu, J. 2003. Coordinate Geometry 2-D and 3-D (For Graduate, Engineering & Competitive Examinating). New Delhi
4. Himmawati P.L. 2018. Handout Geometri Analitik

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