## **MODULE HANDBOOK**

Module Name:	Analytical Geometry		
Module Level:	Sarjana (S-1) / Bachelor		
Abbreviation, if	8420203065		
applicable:			
Sub-heading, if	-		
applicable:			
Course included in the	-		
module, if applicable:			
Semester/term:	3/ Second year		
Module Coordinator(s):	Dr. Susanah, M.Pd		
Lecturer(s):	Prof. Dr. Siti M. Amin, M.Pd.		
	Dr. Susanah, M.Pd		
	Evangelista LWP, M.Sc.		
Language:	Indonesia		
Classification within	Compulsory course/elective studies		
the curriculum:			
<b>Teaching format/class</b>	Teaching format: lectures, tutorial assignment, and individual		
hours per week during	study. 3 x 170 minutes = 510 minutes = 8.5 hours lectures		
the semester			
Workload:	15 weeks per semester consisting of:		
	➤ 2.5 hours lectures (3 x 50 minutes) per week,		
	➢ 3 hours tutorial assignments (3 x 60 minutes) per week,		
	➢ 3 hours individual study (3 x 60 minutes) per week,		
	Total workload : 14x3x170 minutes = 7,140 minutes = 4.76 ECTS*		
Credit Point:	3		
<b>Requirements:</b>	Geometry (8420203064)		

Learning Goals :	Knowledge					
Learning Gould .	<ul> <li>Knowledge</li> <li>CLO-1 : Demonstrate knowledge of the coordinate system and point positions at R2 and R3, line equations in R2, plane equations and line equations in R3, places on R2 and R3, circle equations in R2, tangents to circles, polar lines, power in circles and circular beams, spherical equations in R3, tangent to the ball, the area of power in the ball, parabola, ellipse, and hyperbole.</li> <li>Skill</li> <li>CLO-2: Solve problems related to the concepts of points, lines,</li> </ul>					
	planes, circles, spheres and conic sections					
Content:	Point and Line position at $R^2$ or in $R^3$ , the location of the cone, circle, parabola, ellipse, hyperbole, plane, tube, cone and sphere sections and their properties					
Study/exam	> Students are considered competent and pass if the final score					
achievements		calculated from the score of midterm exam, assignments,				
		least 55 or C.				
		Final score is calculated as follows:				
		20% midterm exam + 30% assignments + 20% participation + 30% final exam				
	Index	Converted Score	Score Range			
	A	4.00	85≤A≤100			
	A-	3.75	80≤ <i>A</i> − <85			
	B+	3.50	<b>75</b> ≤ <i>B</i> + <80			
	В	3.00	<b>70</b> ≤ <i>B</i> <75			
	B-	2.75	65≤ <i>B</i> − <70			
	C+	2.50	<b>60</b> ≤ <i>C</i> + <65			
	С	2.00	<b>55≤</b> <i>C</i> <60			
	D	1.00	<b>40</b> ≤ <i>D</i> <55			
	E	0.00	$0 \leq E < 40$			
Forms of Media	Slides and LCI	Slides and LCD projectors, whiteboard				
Literature				Unesa		

	[3] <u>http://www.mathportal.org/analytic-geometry/analytic-</u> geometry-2d
	[4] <u>http://www.intmath.com/plane-analytic-geometry/intro.php</u> .
Note	*Total hours per 1 credit in 1 semester={(1 credit x 170 minutes x
	14 weeks)/60 minutes}= $39,67$ hours.
	Each ECTS equals with 25 hours therefore 1 credit in 1 semester
	equals 1,59 ECTS.