MODULE HANDBOOK
Analytic Geometry

BACHELOR DEGREE PROGRAM
DEPARTMENT OF MATHEMATICS
FACULTY OF SCIENCE AND DATA ANALYTICS

INSTITUT TEKNOLOGI SEPULUH NOPEMBER

MODULE HANDBOOK
ANALYTIC GEOMETRY

Module name	**Analytic Geometry**
Module level	Undergradute
Code	KM184103
Course (if applicable)	Analytic Geometry
Semester	Fall(Gasal)
Person responsible for the module	Drs. I Gst Ngr Rai usadha, M.Si
Lecturer	Drs. I Gst Ngr Rai usadha, M.Si Drs.Iis Herisman, M.Si Dra. Wahyu Fistia Doctorina, M.Si Muhammad Luthfi Shahab, S.Si, M.Si
Language	Bahasa Indonesia and English
Relation to curriculum	Undergradute degree program, **mandatory**, 1st semester.
Type of teaching, contact hours	Lectures, <60 students Tuesdays, 11.00-12.50 (GMT+7)
Workload	1. Lectures : 3 x 50 = 150 minutes per week. 2. Exercises and Assignments : 2 x 60 = 120 minutes (2 hours) per week. 3. Private learning : 2 x 60 = 120 minutes (2 hours) per week.
Credit points	3 credit points (sks)
Requirements according to the examination regulations	A student must have attended at least 80% of the lectures to join the exams.
Mandatory prerequisites	-
Learning outcomes and their	Course Learning Outcome (CLO) after completing this module,

corresponding ILOs	1. Mahasiswa mampu menjelaskan prinsip-prinsip dasar dari Teori yang dipahaminya khususnya berkaitan dengan bangun pada bidang datar. *Students able to explain basic principles of theory related to objects in plane geometry.* 2. Mahasiswa mampu memvisualkan topik-topik Geometri ke dalam Software Aplikasi Geogebra. *Students are able to visualize Geometry topics into Geogebra Application Software.* 3. Mahasiswa mampu mengaitkan konsep dasar geometri datar dan beberapa aplikasikannya. *Students able to relate basic concepts of plane geometry to some applications.*	
Content	Pada mata kuliah ini mahasiswa akan belajar tentang Koordinat Kartesius, tempat kedudukan titik-titik dan persamaannya, Geometry magnitute; Jenis-jenis Irisan kerucut, Persamaan garis singgung dan garis normal, Tansformasi koordinat. Mahasiswa akan belajar untuk memahami dan bisa menjelaskan materi geometri analitik khususnya geometri datar. *In this course students will learn about Cartesian coordinates, the locus of points and their equations, Geometry magnitude; Types of conic sections, Equations of tangents and normal lines, Coordinate transformation. Students will learn to understand and be able to explain analytic geometry material, especially flat geometry.*	
Study and examination requirements and forms of examination	• In-class exercises • Assignment 1, 2, 3 • Mid-term examination • Final examination	
Media employed	LCD, whiteboard, websites (myITS Classroom), zoom.	
Reading list	Main : Riddle D. F., “Analytic Geometry”, PWS Publishing Company, Boston, 1995 Supporting : Parker, L., George Wentwoprth, David Eugene Smith; Analitic Geometry; Ginn and Company; Boston; 1922	