MODULE HANDBOOK

Module name		Calculus II								
Module level, if applicable		1 st year								
Code, if applicable		SST-203								
Semester(s) in which the module is taught		2 nd (first)								
Person response module	sible for the	Dr. Techn. Rohmatul Fajriyah, M.Si.								
		Achmad Fauzan, S.Pd.Si., M.Si.								
Lecturer		Abdullah Ahmad Dzikrullah, S.Si., M.Sc. Sekti Kartika Dini,S.Si., M.Si. Arum Handini Primandari, S.Pd.Si., M.Sc. Ayudyah Kesumawati, S.Si., M.Si.								
Language		Bahasa Indonesia								
Relation to cur	rriculum	Compulsory course in the first year (2 nd semesters) Bachelor Degree								
Types of teaching and learning	Class size	Attendance time (hours per week per semester)	Form of active participation	Workload (hours per semester)						
Lecture	50-60	2.5	Discussion	Face to face teaching	35					
				Structured activities	48					
				Independent study	48					
				Exam	5					
Total Workload		136 hours								
Credit points		3 CUs / 5.1 ECTS								
Requirements according to		Minimum attendance at lectures is 75%. Final score is evaluated based								
the examination	on regulations	on quiz, assignment, mid-term exam, and final exam.								
Recommended	l prerequisites	Students have taken Calculus I (SST-102).								
Related course	2	Multivariable Calculus (SST-301)								
Module objectives/intended learning outcomes		After completing this course, the students: CO1. have the profound knowledge of the fundamental concept of integral CO2. have the ability to recognize and solve the simple theoretical and applied mathematical-calculus problems								
Content		 Definition of Indefinite Integrals, Definite Integrals and Approximating Definite Integral Integral basic formula for logarithmic, exponential, trigonometric, inverse trigonometric, hyperbolic, and cyclometric functions integration techniques: substitution, integration by part, Integrals Involving Trig Functions, Trig Substitutions, Integration using Partial Fractions, Integrals Involving Roots, and Integrals Involving Quadratics Improper Integral (non-continuous /infinite integral) Integral applications: Area Between Curves, Solids of Revolution, Arc Length, Surface Area, Center of Mass/Centroid, and Probability Concept. 								
Study and examination requirements and forms of examination		NoAssessmer componen1CO 12CO 2Google Classroon	t Assessment t Quiz, Assigr Midterm Exa Quiz, Assigr n, relevant websit	type We (pe ament, am ament, Final Exam es, slides (power points)	eight prcentage) 50% 50% , video,					
Media employed		interactive media, white-board, laptop, LCD projector								

	1.	Purcell, E.L., 1989, Kalkulus dan Geometri Analitik (Terjemahan),
		Erlangga, Jakarta
	2.	Varberg, D., Purcell, E., and Ridgon, S., 2011, Calculus 9 th
		Edition, Pearson.
Reading list	3.	Hoffmann, L.D., and Bradley, G.L., 2010, Calculus for Business,
-		Economics, and the Social and the Life Science, McGraw Hill:
		New York.
	4.	Fajriyah, R., 2016. Logika Kalkulus, Azza Grafika, Yogyakarta
	5.	Paul Dawkins, 2020, Calculus 2, Penn State University, USA

ASIIN		PLO											
		E	Ν	Т	Н	U	S	Ι	Α	S	Т	Ι	С
Knowledge	a							CO1					
	b												
	c												
	d							CO1					
Ability	e												
	f							CO2					
Competency	g												
	h												
	i												
	j												
	k												
	1												

Mapping CO, PLO, and ASIIN's SSC