

MODULE HANDBOOK

Module name		Multivariable Calculus																											
Module level, if applicable		2 nd year																											
Code, if applicable		SST-301																											
Semester(s) in which the module is taught		3 rd (third)																											
Person responsible for the module		Dina Tri Utari, S.Si., M.Sc.																											
Lecturer		Ayundyah Kesumawati, S.Si., M.Si. Muhammad Hassan Sidiq K., M.Sc.																											
Language		Bahasa Indonesia																											
Relation to curriculum		Compulsory course in the third year (3 rd semester) 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	Problem solving	Face to face teaching	35																								
				Structured activities	48																								
				Independent study	48																								
				Exam	3.33																								
Total Workload		136 hours																											
Credit points		3 CUs / 5.01 ECTS																											
Requirements according to the examination regulations		Minimum attendance at lectures is 75%. Final score is evaluated based on quiz, assignment, mid-term exam, and final exam																											
Recommended prerequisites		Students have taken Calculus II (SST – 203)																											
Related course		Calculus II (SST – 203)																											
Module objectives/intended learning outcomes		After completing this course, the students have ability to: CO 1. describes the history of the development of calculus among Islamic scientists, Domain and graphs of two variable functions using online software CO 2. explain partial derivatives, limits and continuity of the function of two or more variables, CO 3. explain the derivative of two or more variables CO 4. explain the concept of the integral function of two variables CO 5. explain the application of multivariable calculus in the field of statistics																											
Content		After completing this course, the students have ability to understand: 1. Multivariable Function 2. Derivative Multivariable Function 3. Integral Multivariable Function 4. Improper Integral 5. Infinite Series																											
Study and examination requirements and forms of examination		The final mark will be weighted as follows: <table><tr><td>No</td><td>Assessment components</td><td>Assessment types</td><td>Weight (percentage)</td></tr><tr><td>1</td><td>CO 1</td><td>Quiz</td><td>20%</td></tr><tr><td>2</td><td>CO 2</td><td>Quiz</td><td>20%</td></tr><tr><td>3</td><td>CO 3</td><td>Assignment</td><td>20%</td></tr><tr><td>4</td><td>CO 4</td><td>Mid-term exam</td><td>20%</td></tr><tr><td>5</td><td>CO 5</td><td>Final exam</td><td>20%</td></tr></table>				No	Assessment components	Assessment types	Weight (percentage)	1	CO 1	Quiz	20%	2	CO 2	Quiz	20%	3	CO 3	Assignment	20%	4	CO 4	Mid-term exam	20%	5	CO 5	Final exam	20%
No	Assessment components	Assessment types	Weight (percentage)																										
1	CO 1	Quiz	20%																										
2	CO 2	Quiz	20%																										
3	CO 3	Assignment	20%																										
4	CO 4	Mid-term exam	20%																										
5	CO 5	Final exam	20%																										
Media employed		Google Classroom, relevant websites, slides (power points), video, interactive media, white-board, laptop, LCD projector																											
Reading list		1. Purcell, E. J & D. Vanberg, 1999 Terjemahan, Kalkulus dan Geometri Analitis, Jilid 1 dan 2.																											

