

MODULE HANDBOOK

Module name		Applied Multivariate Statistics			
Module level, if applicable		3 rd year			
Code, if applicable		SST-602			
Semester(s) in which the module is taught		6 th (sixth)			
Person responsible for the module		Muhammad Muhajir, S.Si., M.Sc.			
Lecturer		Muhammad Muhajir, S.Si., M.Sc. Kariyam, S.Si., M.Si.			
Language		Bahasa Indonesia			
Relation to curriculum		Compulsory course in the third year (6 th 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	1.67	Problem solving	Face to face teaching	23.33
				Structured activities	32
				Independent study	32
				Exam	3.33
Total Workload		90.67 hours			
Credit points		2 CUs / 3.4 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 Introduction to Mathematical Statistics 1 (SST-302)			
Related course		Advanced Multivariate Statistics (SST-706)			
Module objectives/intended learning outcomes		After completing this course, the students have ability to: CO 1. describe the basic concepts of Multivariate Analysis CO 2. analyze the problem based the multivariate method CO 3. solve the problem based the multivariate method CO 4. make scientific descriptions of multivariate method			
Content		Aspect Multivariate Analysis Normal Distribution Multivariate Multinormal Sampling Distribution Vector Inference Mean Covariance Inference Matrix MANOVA Discriminant Analysis Factor Analysis Principal Component Analysis Multidimensional Scalling Hierarchy Clustering Non Hierarchy Clustering			
Study and examination requirements and forms of examination		The final mark will be weighted as follows:			
		No	Assessment components	Assessment types	Weight (percentage)
		1	CO1	Quiz	20%
		2	CO2	Assignment	25%
		3	CO3	Midterm Exam	25%
		4	CO4	Final Exam	30%
Media employed		Google Classroom, relevant websites, slides (power points), video, interactive media, white-board, laptop, LCD projector			

