ELECTRICAL ENGINEERING DEPARTMENT – ENGINEERING FACULTY UNIVERSITY OF MATARAM



Module designation	Digital Signal Processing Laboratory	
Code	FBB3209	
Semester(s) in which the module is taught	6 / third year.	
Person responsible for themodule	Budi Darmawan, ST., M.Eng.	
Language	Indonesian.	
Relation to curriculum	Concentration Elective for Electronics Engineering.	
Teaching methods	Contextual Instruction (CI).	
Workload (incl. contacthours, self- study hours)	Contact minutes every week, each week of the 16weeks/semester : • Practice : 1 x 50 minutes	
	 Data analysis : 1 x 60 minutes Writing report: 1 x 60 minutes. 	
Credit points	$1 (\sim 1.6 \text{ ECTS})$	
Required and recommended prerequisites for joiningthe module	- Digital Signal Processing (FBB3208)	
Module objectives/intend edlearning outcomes	1. Students are able to analyze Statistics and Probability of Signals, Discrete Time Signals, Operation and Analysis of Real Time Systems in Time Space, Operation and Analysis of Dicrete Time Systems in Frequency Space, and several Digital Signal Processing Applications.	PLO3,
	2. Students are able to make programs on Statistics and Signal Probability, Discrete Time Signals, Operation and Analysis of Real Time Systems in Time Space, Operation and Analysis of Discrete Time Systems in Frequency Space, and several Digital Signal Processing Applications.	PLO4

MODULE HANDBOOK DESCRIPTION

	3. Students are able to compare the analysis results of Statistics and Signal Probability, Discrete Time Signals, Operation and Analysis of Real Time Systems in Time Space, Operation and Analysis of Discrete Time Systems in Frequency Space, and several Digital Signal Processing Applications with the experimental results and make conclusions and report the results.		
Content	1. Statistics and Probability of Signals		
	2. Discrete Time Signals		
	3. Operation and Analysis of Real Time Systems in Time Space		
	4. Operation and Analysis of Dicrete Time Systems in Frequency Space		
	5. Digital Signal Processing Applications		
Examination forms	 Pre-test Practice skills Practice report Response 		
Study and examination requirements	The final grade in the module is composed of: 1. Pre-test and practice skills = 50% 2. Practice report and response = 50%		
	Students must have a final grade of 65% or higher to pass		
Reading list	 Schilling, R.J., and Harris, S.L. (2012). "Instructor Solution Manual - Fundamentals of Digital Signal Processing Using MATLAB 2nd ed", Cengage Learning. 		
	Kuc, R. (2008). "Introduction to Digital Signal Processing". BS Publications.		
	 Quinquis, A. (2008). "Digital Signal Processing Using Matlab". John Wiley & Sons, Inc. 		