

MODULE HANDBOOK DESCRIPTION

Module designation	Logic Circuit Laboratory	
Code	FBS1218	
Semester(s) in which the module is taught	2/first year	
Person responsible for the module	Budi Darmawan, ST., M.Eng.	
Language	Indonesian	
Relation to curriculum	Compulsory for all Majors	
Teaching methods	Contextual Instruction (CI)	
Workload (incl. contact hours, self- study hours)	Contact minutes every week, each week of the 16 weeks/semester:	
	• Practice : 1 x 50 minutes	
	• Data analysis : 1 x 60 minutes	
	• Writing report : 1 x 60 minutes.	
	Total study hours = 2 hours 50 minutes/week	
Credit points	1 (~ 1,6 ECTS)	
Required and recommended prerequisites for joining the module	- Logic Circuit (FBS1107)	
Module objectives/intend ed learning outcomes	1. Students are able to analyze logic gate, flip flop, seven segment, register, counter, and Binary Adder Circuit.	PLO3
	2. Students are able to assemble logic gate, flip flop, seven segment, register, counter, and Binary Adder Circuit based on instructions from the practicum module.	PLO4
	3. Students are able to compare the analysis results of Logic gate, flip flop, seven segment, register, counter, and Binary Adder Circuit with the experimental results and make conclusions then report the results.	PLO5

Content	 Logic Gate Flip-flop Seven Segment Register Counter Binary Adder Circuit (BAC)
Examination forms	 Pre-test Practice skills Practice report Response
Study and examination requirements	The final grade in the module is composed of: a. Pre-test and practice skills = 50% b. Practice report and response = 50% Students must have a final grade of 65% or higher to pass
Reading list	 Leach, M., 1994. Digital Principles And Applications Third Edition, McGraw-Hill, Inc. Sunarto, 1998, Dasar-dasar Teknologi Digital, Jakarta. Kurniawan, F., 2005, Sistem Digital Konsep dan Aplikasi, Penerbit Gramedia, Yogyakarta. Widjanarka, W., 2006, Teknik Digital, Penerbit Erlangga, Jakarta.