MODULE HANDBOOK DESCRIPTION

Module designation	Electronic Circuit Laboratory	
Code	FBB3102	
Semester(s) in which the module is taught	5 / third year	
Person responsible for themodule	Budi Darmawan, ST., M.Eng.	
Language	Indonesian	
Relation to curriculum	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 50 minutes • Writing report: 1 x 50 minutes. Total study hours = 2 hours 30 minutes/week	
Credit points	1 (~ 1,6 ECTS)	
Required and recommended prerequisites for joiningthe module	- Electronic Circuit (FBB3101)	
Module objectives/intend edlearning outcomes	1. Students are able to analyze small signal in Bipolar Junction Transistor circuit, small signal in Field Effect Transistor circuit, and Power Supply Switching circuit.	PLO3
	2. Students are able to assemble Bipolar Junction Transistor circuit, Field Effect Transistor circuit, and Power Supply Switching circuit.	PLO4
	3. Students are able to compare the analysis results of Bipolar Junction Transistor circuit, Field Effect Transistor circuit, and Power Supply Switching circuit with the experimental results of these circuits and make conclusions and report the results.	PLO5

Content	1. Bipolar Junction Transistor 2. Field Effect Transistor 3. Power Supply Switching
Examination forms	1. Pre-test 2. Practice skills 3. Practice report 4. 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	1. Floyd, T. L. 2011. Electronic Devices 9th ed, Prentice Hall. 2. Sedra S., and Smith, K.C. 2011. "Microelectronic Circuits 6th ed.", Oxford University Press. 3. Boylestad, R., and Nashelsky, L., 1993 Electronic Devices and Circuit Theory.