

Module designation Advanced Electronics Laboratory Code FBB3207 Semester(s) in which the 6 / third yearmodule is taught Person responsible for Budi Darmawan, ST., M.Eng. themodule Language Indonesian Relation to curriculum Concentration Elective for Electronics Engineering. Teaching methods Contextual Instruction (CI). Workload (incl. Contact minutes every week, each week of contacthours, selfthe 16weeks/semester : study hours) • 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) Analog Electronics (FBB3210) -Required and recommended prerequisites for joining the module 1. Students are able to analyze Differential PLO3. Module Amplifier, Power Electronics Component, and objectives/intend Field Effect Transistor. edlearning outcomes Students are able to assemble Differential 1. PLO4 Amplifier, Power Electronics Component, and Field Effect Transistor. 2. Students are able to compare the analysis PLO5 results of Differential Amplifier, Power Electronics Component, Field Effect and Transistor with the experimental results of these circuits and make conclusions and report the results.

MODULE HANDBOOK DESCRIPTION

Content	1. Differential Amplifier,
	2. Power Electronics Component
	3. Field Effect Transistor
Examination forms	1. Pre-test
	2. Practice skills
	3. Practice report
	4. Response
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Study and examination	The final grade in the module is composed of:
requirements	1. Pre-test and practice skills = 50%
	2. Practice report and response = 50%
	$\mathbf{f}_{\mathbf{f}} = \mathbf{f}_{\mathbf{f}} + $
	Students must have a final grade of 65% or higher to pass
Reading list	 Gray, P.R., Hurst, P.J., Lewis, S.H., and Meyer, R.G. (2009). "Analysis And Design of Analog Integrated Circuits 5th ed", John Wiley & Sons, United States of America.
	2. Jacob, J.M. (1982). "Applications & design with analog integrated circuits", Reston Pub. Co.
	 Boylestad, R., and Nashelsky, L., (2014). "Electronic Devices and Circuit Theory 11th ed". Pearson.