

Module designation Electrical Circuits II Code FBS2122 Semester(s) in which the 3 /second year module is taught Person responsible for the Ni Made Seniari, ST., MT. module Language Indonesian Relation to curriculum Compulsory for all majors Teaching methods Lectures, small group discussion, case base method. Workload (incl. contact Contact minutes every week, each week of the 16 hours, self-study hours) weeks/semester: • Lectures: 3 x 50 minutes Exercises and Assignments: 3 x 60 minutes • Private study: 3 x 60 minutes. • total study hours = 8 hours 30 minutes/week 3 SKS (~ 4.8 ECTS) Credit points Required and -Electrical Circuits I (FBS1213) recommended prerequisites for joining the module Module 1. Students understand the concept of Power in AC PLO2 objectives/intended circuits 2. Students are able to understand the three-phase learning outcomes circuit system 3. Students are able to understand the concept of magnetically coupled circuit analysis 4. Students are able to understand the system with two net Working 5. Students are able to apply the concept of frequency PLO3 response in electrical circuits

MODULE HANDBOOK DESCRIPTION

	6. Students are able to work on cases related to PLO4
	frequency response in electrical circuits
Content	1. Power in AC circuit
	2. Three-phase circuit system
	3. Magnetically coupled circuit
	4. Two Port Network
	5. Complex frequency
	6. Analysis of the concept of frequency response
Examination forms	- Collecting a portfolio after finishing each topic, in the form of
	voice recordings and working on practice assignments
	- Midterm and final test
Study and examination	The final grade in the module is composed of:
requirements	a. The portfolio of 6 topics is $11,67\%$ each, for a total of 70%
	b. Midterm assessment: 15%
	c. Final assessment: 15%
	Students must have a final grade of 70% or higher to pass
Reading list	1. Hyatt, W.H., Kemmerly, J.E, Durbin, S. M., 2007, "Engineering
	Circuit Analysis", 7th edition, Mc. Graw Hill
	2. Alexander, C.K., Sadiku, M.N.O., 2011, "Fundamental of Electric
	Circuits", 6th edition, Mc. Graw Hill
	3. Edminister, J.A., "Rangkaian Listrik (Buku Schaum Series)"
	4. Budiono, M, "Rangkaian Listrik", ITB Bandung.
	5. Naeem, W., 2009, "Concepts in Electrics Circuit", Ventus
	Publishing Aps
	6. Nilsson, J.W., Riedel, S.A., 2015, "Electric Circuits" 10th edition,
	Prentice Hall