

Module designation	Transmission & Distribution Laboratory		
Code	FBA3212		
Semester(s) in which the module is taught	6 / third year		
Person responsible for themodule	Sultan, ST., MT.		
Language	Indonesian		
Relation to curriculum	Concentration Elective for Electrical Power System Engineering		
Teaching methods	Contextual Instruction (CI)		
Workload (incl. contacthours, self- study hours)	<ul> <li>Contact minutes every week, each week of the 16weeks/semester :</li> <li>Practice: 1 x 50 minutes</li> <li>Data analysis: 1 x 60 minutes</li> <li>Writing report: 1 x 60 minutes.</li> </ul>		
Credit points	1 (~ 1,6 ECTS)		
Required and recommended prerequisites for joiningthe module	<ul> <li>Electric Power Transmission (FBA3102)</li> <li>Modern Distribution System (FBA3211)</li> </ul>		
Module objectives/intend edlearning outcomes	1. Students are able to analyze medium power transmission and compensators, three-phase transformers, primary distribution systems (three-phase systems), and energy metering.	PLO3	
	2. Students are able to make test circuits for medium and compensator transmission lines, three-phase transformers, three-phase primary distribution systems, and energy metering based on the instructions of the practicum module.	PLO4	
	3. Students are able to compare the analysis results of medium transmission lines and compensators, three-phase transformers, three-phase distribution systems, and energy metering with the experimental results and conclusions and then report the results.	PLO5	

## MODULE HANDBOOK DESCRIPTION

Content	Advanced AC Machine	
	2. Advanced DC Motor	
	3. Starting of AC and DC Motors	
	4. Generator Synchronization	
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:	
	1. Pre-test and practice skills = $20\%$	
	2. Practice report and response $= 80\%$	
	Students must have a final grade of 65% or higher to pass	
Reading list	<ol> <li>Laboratorium Sistem Tenaga Listrik, 2013, "Modul Praktikum Transmisi dan Distribusi", Jurusan Teknik Elektro, Fakultas Teknik, Universitas Mataram.</li> </ol>	
	<ol> <li>Grainger, J.J., dan Stevenson W.D.Jr., 1994, "Power Sistem Analysis", McGraw-Hill, Inc., Singapore.</li> </ol>	
	<ol> <li>Saadat, H., 1999, "Power System Analysis", McGraw-Hill, Singapore.</li> </ol>	