MODULE HANDBOOKDESCRIPTION

Module designation	High Voltage Engineering	
Code	FBA-4118	
Semester(s) in which the module is taught	7 / fourth year	
Person responsible for the module	Supriono, S.T.,M.T	
Language	Indonesian	
Relation to curriculum	*Elective for Electrical Power Sistem Engineering*	
Teaching methods	Lecture, case base method.	
Work load (incl. contact hours, self-study hours)	Contact minutes every week, each week of the 16 weeks /semester : • Lectures:2 x50minutes • Exercises and Assignments: 2x 60minutes • Private study: 2 x 60 minutes. Total study hours = 5 hours 40 minutes / week	
Credit points	*2(~ 3.2 ECTS)*	
Required and recommended prerequisites for joining the module	-	
Module objectives/ intended learning outcomes	1. Students are able to apply logical, critical, systematic and innovative thinking in the context of the development or implementation of science and technology that pays attention to and applies humanities values according to their field of expertise 2. Student are able to analyze to take appropriate decisions in the context of solving problems in their area of expertise, based on the results of information and data analysis	PLO3 PLO4

	3. Student are able to apply knowledge of mathematics, natural and/or materials science, information technology and engineering to gain a thorough understanding of the principles in the field of electrical engineering. 4. Student are able to evaluate and test high-voltage equipment and also being able to isolate high-voltage equipment so that it is safe for operators or humans.	PLO3 PLO5

Content	1. Various kinds of Insulation Materials 2. Economical insulation material suitable for high voltage equipment 3. Electric Field Distribution 4. Installation of high voltage equipment testing. 5. Technology for the manufacture of insulating materials and high voltage equipment
Examination forms	- Multiple choice examination and Essay, - Case study Assignments
Study and examination requirements	The final grade in the module is composed of: a. Meeting score=10% b. Exercise Report/ Homework/ Portfolio = 20% c. Middle Test = 35 % d. Final Test = 35 %
Reading list	1. Dieter K & Hemann Karner, “High Voltage Insulation Technology”, Vieweg & Sohn. 2. A Arismunandar, “Teknik Tegangan Tinggi Suplemen”, Ghalia Indonesia. .