

Course Code	TKEE162204P									
Course Name	Power System Labwork									
Course Instructors	Harnoko, Tiyono, Avrin Nur Widiastuti									
Course Type	Selected Elective									
Course Classification	Engineering Topics									
Credit / Contact Hour per Week	1 / 50 minutes per Week									
Course Description	This course work in electrical power system fundamental consist of modeling, measurement, computing and simulation									
Prerequisites Courses	Fundamentals of Electrical Power System (TKEE162204)									
Covered Student Outcome	Engineering Design (c) Data and Experiment (d) Modern Tools Utilization (e) Multidisciplinary Teamwork (h)									
Learning Outcome	<ol style="list-style-type: none"> 1. Students are able to describe the basic electronic power system 2. Students are able to gather and classify the data related to the electric power system 3. Students are able to simulate the electric power system problem using the software (compute) 4. Students are able to arrange, discuss, and analyze the lab case in responsible manner withing SHE criteria 									
Topic	<ol style="list-style-type: none"> 1. Load Flow 2. Short Circuit&Transient 1 3. Short Circuit&Transient 2 4. Symmetrical Fault 1 5. Symmetrical Fault 2 6. Single Line to Ground Fault 									
Direct Aseessment	<table border="1"> <thead> <tr> <th>Direct Aseessment Plan</th> <th>Measured Learning Outcome</th> </tr> </thead> <tbody> <tr> <td>Lab Work Report</td> <td>LO1 LO2 LO3 LO4</td> </tr> <tr> <td>Pretest</td> <td>LO1 LO2 LO3 LO4</td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>		Direct Aseessment Plan	Measured Learning Outcome	Lab Work Report	LO1 LO2 LO3 LO4	Pretest	LO1 LO2 LO3 LO4		
Direct Aseessment Plan	Measured Learning Outcome									
Lab Work Report	LO1 LO2 LO3 LO4									
Pretest	LO1 LO2 LO3 LO4									
Indirect Assesment	Questionnaire (EDOM)									
References	[1] Theodore Wildi , 2002, Electrical Machines, Drives, and Power Systems [2] Cadick, J., Mary Capelli-Schellpfeffer, Dennis Neitzel, 2000, Electrical Safety Handbook, McGraw-Hill [3] http://172.20.2.1/Document/Books/Electronics/DC/DC_3.html , Electrical Safety [4] Weedy, B.M., 1979, Electric Power Systems, John Wiley & Sons									