Course Code		TKEE165115	
Course Name		Computer Applications in Electrical Power Systems	
Course Instructors		Suharyanto; Lesnanto Multa Putranto;	
Course Type		Elective	
Course Classification		Engineering Topics	
Credit / Contact Hour per Week		3 / 150 minutes per Week	
Course Description		This course provides understanding to final students of Electrical Engineering Study Program on various computer applications as well as information and communication technology in Power System (STL)	
Prerequisites Courses		•	
Covered Student Outcome		Fundamental and Engineering Knowledge (a) Modern Tools Utilization (e)	
Learning Outcome Topic	 Students are able to explain and describe the power system model and equations Students are able to model the power system component for computer application Students are able to compose, solve and analyze the power system control and optimization (in the computer programm) Students are able to apply and analyze the power system problem in power system software (MATLAB, ATP, DIGSILENT, and ETAP) Correlation of computer use, control, intelligent system to power system problems Use of computers, computer applications, controls to improve power system performance Technology applications on power system 		
Direct Asessment			
	Direct Asessment Plan		Measured Learning Outcome
	Assignment or Quiz		
	Mid Exam		LO1,LO2
	Final Exam		LO1,LO2,LO3,LO4
	Presentation and Workshop		LO2,LO3
Indirect Assesment	Questionnaire	(EDOM)	I I
References	[1] Buku Power System Analysis Book, Hadii Saadat		
	[2]Buku Computer Methods In Power System Analysis Book by G W Stagg and		
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