Course Code		TKEE163112	
Course Name		Electrical Transmission and Substations	
Course Instructors		Tiyono,	
Course Type		Selected Elective	
Course Classification		Engineering Topics	
Credit / Contact Hour per Week		3 / 150 minutes per Week	
Course Description		In this course we studied the main device of electric power transmission system and transmission channel performance analysis, as well as main component of substation. These subjects cover the general characteristics of power transmission lines, transmission line main equipment, inductance and transmission line capacitance, common constants, voltage regulation and channel efficiency calculations, pie charts, compensation, corona phenomena, current carrying capacity, main components, Supporting components, mechanical structures, insulators, lay outs, planning substations.	
Prerequisites Courses			
Covered Student Outcome		Development of Engineering Solution (b) Engineering Design (c) Modern Tools Utilization (e)	
Learning Outcome	 Students are able to understands the electrical transmission channel and electrical substation Students are able to calculate the performance metric of electrical transmission channel 		
Торіс	 Definition and scope of Transmission or GI Understanding Components Rating and calculation Implementation Design lay out GI and SLD 		
Direct Asessment			
	Direct Asess	ment Plan	Measured Learning Outcome
	Assignment		LO1, LO2
	Mid Exam		LO1
	Final Exam		LO2
Indirect Assessment	Questionnaire (EDOM)		
References	[1] Bab 9 Transmission Lines		
	[2] Desphande, 1990, Electrical Power System Design, Tata McGraw-Hill		
	[3] Walter L Weeks, 1981. Transmission and didtribution of Electrical		
	Energy, Harper and Row Publisher, New York		