Course Code		TKEE165212	
Course Name		Power Electronic	
Course Instructors		Eka Firmansyah;	
Course Type		Elective	
Course Classification		Engineering Topics	
Credit / Contact Hour per Week		3 / 150 minutes per Week	
Course Description		This course provides an application of electronics knowledge	
		in the area of power supply	
Prerequisites Courses		-	
Covered Student Outcome		Development of Engineering Solution (b)	
		Engineering Design (c)	
		Modern Tools Utilization ( e )	
Learning Outcome	1. Students are able to implement the knowledge of mathematics and		
	electronics to apply to the efficient conversion of electric energy with the		
	concept of switching		
Topic	1. The concept of electric energy conversion efficiently using switching		
	techniques,		
	2. the function of electromagnetic components in the conversion of electrical		
	energy,		
	o. switching components and now to trigger it,		
	4. Dasic ropology,		
	5. Dasic control switching power supply, 6. Itilization of newer electronics science in STL application		
	5. Outpation of power electronics science in STL application.		
	with spice		
Direct Asessment	with spice.		
Direct Alsebolient	Direct Asessment Plan		Measured Learning Outcome
	Mid Exam		LO1
	Final Exam		LO1
Indirect Assesment	Questionnaire (EDOM)		Bot
References	[1] Power Electronics, Mohan-Undeland.		
	[2] Power Electronics, Rashid.		
	[3] SMPS I and II, Microchip Application Notes.		