Course Code		TKEE163213		
Course Name		Design of Industrial Power Systems		
Course Instructors		Sarjiya;		
Course Type		Elective		
Course Classification		Engineering Topics		
Credit / Contact Hour per Week		2 / 100 minutes per Week		
Course Description		The course of Electrical Design of Industry discusses the things done in an electrical system design on the industry, both for Front End Engineering Design (FEED) and Detail Engineering Design (DED)		
Prerequisites Courses Covered Student Outcome		- Engineering Design (c)		
Covered Student Of	licome	Engineering Design		
Learning Outcome	electrical s 2. Students drawing in 3. Students industrial 4. Students a selection, s	system design in indust are able to apply th n electrical system indu are able to apply th design are able to estimate the and cost.	e engineering work, management and	
Topic	<ol> <li>Engineering concept works</li> <li>Power system studies in industrial design</li> <li>Drawing and documentation in industrial electrical design</li> <li>Engineering Development and Detail Specification, Selection and Purchase in industrial electrical design</li> </ol>			
Direct Asessment	Direct Assau		Management Language Outragement	
	Direct Asess Assignment	ment Plan	Measured Learning Outcome LO1,LO2,LO3,LO4	
	Mid Term Exa	am	L01,L02,L03	
	Final Term E	xam	LO3,LO4	
<b>T D</b>				
Indirect Assessment	Questionnaire (EDOM)         [1] Electrical Equipment and Installation in Hazardous Areas, Bottrill         [2] ETAP Tutorial         [3] Handbook for Process Plant Project Engineers, Watermeyer         [4] Industrial Electric Network Design Guide Vol 1 & Vol 2, Schneider         [5] Khan, S., 2008, Industrial Desugn System			
References				
	[5] Khan, S., 2008, Industrial Power System			
	[6] IEEE Recommended Practice for Calculating short-Circuit Currents in			
	Industrial and Commercial Power System			
	[7] IEEE Recommended Practice for Electric Power Distribution for Industrial			
	Plants			
	[8] IEEE Recommended Practice for Grounding of Industrial and Commercial			
	Power System			
	[9] IEEE Recor	nmended Practice for I	Protection and Coordination of Industrial	
	and Commercial Power System			
	[10] IEEE Recommended Practice for Powering and Grounding Electronic			
	Equipment			
	[11] IEEE Recommended Practice for Industrial and Commercial Power			
	System Analysis			
	[12] Practical	Grounding, Bondin	g, Shielding and Surge Protection,	
	Vijayaraghavai	n		

[13] Standard Handbook of Plant Engineering, Rosaler