



Course Title:	Electrical Power Generation		
Course Code:	DEE-501		
Program:	Diploma	Semester-V	
Credits:	T-04	P-00	Total-04
Course Outcome			
1	To understand the development of electrical energy needs of various consumer areas		
2	To describe and use from technical point of view the various methods of energy production		
3	Introduction to thermal power generation and their drawbacks and impact on the environment.		
4	Operation of Nuclear Power plants and their future scope in India.		
5	Introduction to renewable energy resources and their advantages over conventional sources.		

Course Title:	Estimating & costing		
Course Code:	DEE-502		
Program:	Diploma	Semester -V	
Credits:	T-3	P-2	Total-5
Course Outcome			
1	Estimating and costing market survey ,calculation of material and labour cost,idea of tender		
2	Earthing of electrical installation ,pipe earthing and plate earthing and determine earth wire size		
3	Estimation of power wiring ,determine size of cable ,main switch and starter of power circuit		
4	Estimation of overhead and underground distribution line,cost of material and work		
5	Estimation of material require for small distribution substation ,cost of material & work		

Course Title:	Electrical Drives-I		
Course Code:	DEE-503		
Program:	Diploma	Semester-V	
Credits:	T-4	P-2	Total-6
Course Outcome			
1	Introduction to Electrical drives and their applications in the Industry.		
2	Various types of starters used in the industry and their limitations.		
3	Electrical breaking, their types, advantages and disadvantages over mechanical drives.		
4	Review of conventional methods & convertor control methods used in speed control of DC motor .		
5	Various power recovery schemes in drives to improve the efficiency of the drives in industry		

Course Title:	Switch Gear & Protection		
Course Code:	DEE-504		
Program:	Diploma	Semester - V	
Credits:	T - 04	P - 02	Total - 06
Course Outcome			
1	Identification of various types of faults in Power system and the analysis of such faults		
2	Understanding the different types of protective relays for primary and backup protection.		
3	Maintaining different types of circuit breakers also Knowledge of the fundamental components.		
4	Introduction to Protection of transformer, alternator, motor and busbar.		
5	Knowledge of surge protection & insulation coordination .		

Course Title:	Power Electronics		
Course Code:	DEE-505		
Program:	Diploma	Semester : V	
Credits:	T-4	P-2	Total-6
Course Outcome			
1	Introduction of power electronic device and brief description of SCR.		
2	Principle of operation of GTO,MOSFET,IGBT		
3	Detail description of inverter and their utilization		
4	Voltage control by inverter and harmonics reduction		
5	Operation and analysis of phase control rectifier		

Course Title:	Minor Project		
Course Code:	DEE-506		
Program:	Diploma	Semester-V	
Credits:	T-Nil	P-4	Total-4
Course Outcome			
1	Introduction about Project Making		
2	Various Steps of Project Making		
3	Demonstration of Project		
4	Project Report Making		
5	Future Enhancements of Project		

Course Title:	Industrial Training		
Course Code:	DEE-507		
Program:	Diploma	Semester: V	
Credits:	T-Nil	P-4	Total-4
Course Outcome			
1	To be able to analyse a given engineering problem, solving methodology, implement the methodology and propose a meaningful solution		
2	Ability to apply prior acquired knowledge in problem solving		
3	To be able to work in a team		
4	To be able to take initiatives		
5	Ability to manage a project within a given time frame		