YANBU INDUSTRIAL COLLEGE
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING TECHNOLOGY

COURSE SCHEDULE
POWER GENERATION AND TRANSMISSION
EEET 223 ((LT: 3 LB: 3 CR: 4)

Theory Instructor: **Shameer A Koya** Office Hours (by office door ACX F73)

			Theory	
Week	**From**	**To**	**Topics**	**Remarks**
W01	**21/01/2018**	**25/01/2018**	Introduction to the Course **Electrical Power Generation** Sources of electrical energy Comparison of the characteristics of main sources of electrical energy	
W02	**28/01/2018**	**01/02/2018**	Factors influencing electrical power generation Steam turbine power plant	
W03	**04/02/2018**	**08/02/2018**	Gas Turbine Power Plant Combined-cycle power plant	**Assign. I** **Quiz I**
W04	**11/02/2018**	**15/02/2018**	Diesel Engine power plant Nuclear power plant	
W05	**18/02/2018**	**22/02/2018**	Hydro electrical power plant Solar Power Generation	**Assign. II**
W06	**25/02/2018**	**01/03/2018**	Power Demand in an Electrical Power System Parallel operation of alternators in power system Interconnected power stations and power systems	**Quiz II**
W07	**04/03/2018**	**08/03/2018**	**Electrical Power Transmission and Distribution** Typical power scheme Voltage Regulation and Efficiency Transmission line Voltages	**Mid Term Lab Examination**
W08	**11/03/2018**	**15/03/2018**		**Mid-Term Examination**
W09	**18/03/2018**	**22/03/2018**	Components of a Power line Line conductors Line conductors Line insulators	
W10	**25/03/2018**	**29/03/2018**	Components of a Power line (contd.) Line supports Accessories Electrical Properties of Transmission Lines	**Assign. III**
W11	**01/04/2018**	**05/04/2018**	Electrical Properties of Transmission Lines (contd.) Distribution of Electrical Energy Types and characteristics of Primary distribution systems	**Quiz III**
W12	**08/04/2018**	**12/04/2018**	Power factor improvement **Electrical Power Systems Protection** Faults, their types and effects The fault clearing process	
W13	**15/04/2018**	**19/04/2018**	Requirements of circuit breakers Basic principles of operation of a circuit breaker Arc extinction Types of Circuit Breakers	**Assign. IV**

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W14	**22/04/2018**	**26/04/2018**	Protective relays Over current protection Differential Protection	**Quiz IV**
W15	**29/04/2018**	**03/05/2018**	**Theory Revision**	**Final Lab Examination**
W16	**06/05/2018**	**10/05/2018**		**Final Theory Examinations**
W17	**13/05/2018**	**17/05/2018**		

With best regards,

Course Coordinator: Shameer A Koya **Signature:**

Date: 21- 01-2018