



<b>Course Title:</b>	Non conventional Energy Source		
<b>Course Code:</b>	EET-701		
<b>Program:</b>	B.Tech	Semester VII	
<b>Credits:</b>	T-4	P-0	Total-4
<b>Course Outcome</b>			
1	Introduce energy sources, world energy situation, tidal power plant		
2	Introduction of solar energy and their utilization		
3	Introduction of wind energy , geothermal energy and their utilization		
4	Introduction of nuclear fusion energy and their utilization		
5	Introduction of biomass energy and their utilization		

<b>Course Title:</b>	Computer application to Power Systems		
<b>Course Code:</b>	EET-704A		
<b>Program:</b>	B.Tech.	Semester : VII	
<b>Credits:</b>	T-4	P-Nil	Total-4
<b>Course Outcome</b>			
1	Students will be able to learn the KNOWLEDGE ABOUT TRANSMISSION AND DISTRIBUTION		
2	Importance of sensing relating to power system with loading effect and compensation in power system		
3	Introduction to sensitivity analysis, process and other related terms.		
4	Introduction to power system security and methods to provide optimum security.		
5	Understanding the voltage stability and it's importance.		

<b>Course Title:</b>	Generalized theory of Electrical Machines		
<b>Course Code:</b>	EET-704B		
<b>Program:</b>	B.Tech.	Semester : VII	
<b>Credits:</b>	T-4	P-Nil	Total-4
<b>Course Outcome</b>			
1	Introduction to primitive machines and various transformation involves in this for better understanding		
2	Introduction to Induction machines and understanding their performances.		
3	Introduction to Synchronous machines, their performances, construction and phasor diagrams.		
4	Understanding the Operational Impedances and Time Constants of Synchronous Machines.		
5	To understand the Approximate Methods for Generator & System Analysis.		

<b>Course Title:</b>	Process Control		
<b>Course Code:</b>	EET-704C		
<b>Program:</b>	B.Tech.	Semester : VII	
<b>Credits:</b>	T-4	P-Nil	Total-4
<b>Course Outcome</b>			
1	To Understand Special characteristics of process systems large time constants, interaction, multivariable		
2	Introduction to Generation of control action in electronic and pneumatic controllers.		
3	Introduction to Different control techniques and interaction of process parameters e.g. feed forward		
4	Various process schemes / unit operations and their control schemes.		
5	To understand Advanced control strategies with case studies. Use of DDC and PLC.		

<b>Course Title:</b>	<b>Electrical Drives-I</b>		
<b>Course Code:</b>	<b>EET-703</b>		
<b>Program:</b>	<b>B-Tech</b>	<b>Semester VII</b>	
<b>Credits:</b>	<b>T-4</b>	<b>P-02</b>	<b>Total-06</b>
<b>Course Outcome</b>			
<b>1</b>	<b>Introduction to Electrical drives and their applications in the Industry.</b>		
<b>2</b>	<b>Various types of starters used in the industry and their limitations.</b>		
<b>3</b>	<b>Electrical breaking, their types, advantages and disadvantages over mechanical drives.</b>		
<b>4</b>	<b>Various types of converter and their advantages and limitations in electrical drives.</b>		
<b>5</b>	<b>Inverter fed electrical drive system and various recovery schemes to recover waste power.</b>		

<b>Course Title:</b>	<b>Protection of Power System</b>		
<b>Course Code:</b>	<b>EET-704</b>		
<b>Program:</b>	<b>B.Tech</b>	<b>Semester : VII<sup>th</sup></b>	
<b>Credits:</b>	<b>T-4</b>	<b>P-2</b>	<b>Total-6</b>
<b>Course Outcome</b>			
<b>1</b>	<b>Introduction to Causes and consequences of dangerous currents.</b>		
<b>2</b>	<b>Introduction to Overcurrent Protection.</b>		
<b>3</b>	<b>Introduction to Generator Protection and methods of protection.</b>		
<b>4</b>	<b>Introduction to Transformer Protection.</b>		
<b>5</b>	<b>Transmission Line Protection and their types.</b>		

<b>Course Title:</b>	<b>Major Project- I</b>		
<b>Course Code:</b>	<b>EET-705</b>		
<b>Program:</b>	<b>B.Tech</b>	<b>Semester-VII</b>	
<b>Credits:</b>	<b>T-00</b>	<b>P-06</b>	<b>Total-06</b>
<b>Course Outcome</b>			
<b>1</b>	<b>Undertake problem identification, formulation and solution</b>		
<b>2</b>	<b>Design engineering solution to complex problem utilising a systems approach</b>		
<b>3</b>	<b>Conduct an engineering project</b>		
<b>4</b>	<b>Communicate with engineers and the community at large in written and oral forms</b>		
<b>5</b>	<b>Demonstrate the knowledge, skills and attitudes of a professional engineer</b>		

<b>Course Title:</b>	<b>Electrical Machine Design CAD Based</b>		
<b>Course Code:</b>	<b>EET-706</b>		
<b>Program:</b>	<b>B.Tech</b>	<b>Semester-VII</b>	
<b>Credits:</b>	<b>T-00</b>	<b>P-02</b>	<b>Total-02</b>
<b>Course Outcome</b>			
<b>1</b>	<b>Introduction to Basic Principles of Electrical Machine Design.</b>		
<b>2</b>	<b>Understanding the Heating and Cooling of Electrical Machines.</b>		
<b>3</b>	<b>Introduction to Computer Aided Design of Transformers.</b>		
<b>4</b>	<b>Computer Aided Design of Synchronous Machines.</b>		
<b>5</b>	<b>Understanding the Computer Aided Design of Induction Machines.</b>		

<b>Course Title:</b>	<b>Industrial Training-II</b>		
<b>Course Code:</b>	<b>EET-707</b>		
<b>Program:</b>	<b>B.Tech</b>	<b>Semester VII</b>	
<b>Credits:</b>	<b>T 0</b>	<b>P 04</b>	<b>Total 02</b>
<b>Course Outcome</b>			
<b>1</b>	<b>To be able to analyse a given engineering problem, solving methodology</b>		
<b>2</b>	<b>Ability to apply prior acquired knowledge in problem solving</b>		
<b>3</b>	<b>Students will be able to Learn how we can prepare for industries</b>		
<b>4</b>	<b>Student can understand working culture of industries</b>		
<b>5</b>	<b>Opportunity to exchange theoretical knowledge into practical knowledge.</b>		