

New Curriculum for Bachelor in Power Engineering
Department of Power Engineering

FIRST YEAR FIRST SEMESTER						
<i>Code no.</i>	<i>Subject</i>	<i>Pds/week</i>		<i>Credit</i>	<i>Marks</i>	
		<i>L</i>	<i>S</i>		<i>Exam</i>	<i>Sessional</i>
PE/ Chem/T/111	Chemical Science	3		3	100	
PE/Math/T/112	Mathematics – IQ	3		3	100	
PE/Math/T/113	Mathematics – IIQ	3		3	100	
PE/T/114	Engg. Mechanics – I	4		3	100	
PE/T/115	Engg. Drawing	3		3	100	
PE/Ph/T/116	Physics	3		3	100	
PE/Ph/S/111	Physics Lab – I		3	3		100
PE/ Chem/S/112	Chemistry Lab		3	3		100
PE/S/113	Engg. Drawing		3	3		100
PE/S/114	Workshop Practice - I		3	3		100
	Sub - Total	19	12	30	600	400
	Total		31	30	1000	
FIRST YEAR SECOND SEMESTER						
<i>Code no.</i>	<i>Subject</i>	<i>Pds/week</i>		<i>Credit</i>	<i>Marks</i>	
		<i>L</i>	<i>S</i>		<i>Exam</i>	<i>Sessional</i>
Hum/T/B	Humanities-B	3		3	100	
PE/Math/T/122	Mathematics – IIIQ	3		3	100	
PE/T/123	Engg. Mechanics – II	4		3	100	
PE/CSE/T/124	Principles of Electrical Engineering	3		3	100	
PE/T/125	Engg. Graphics	3		3	100	
PE/ T/126	Circuit Theory	3		3	100	
PE/Hum/S/121	Language Lab		3	3		100
PE/S/122	Applied Mechanics Lab		3	3		100
PE/S/123	Engg. Graphics		3	3		100
PE/S/124	Workshop Practice - II		3	3		100
	Sub - Total	19	12	30	600	400
	Total		31	30	1000	

SECOND YEAR FIRST SEMESTER						
<i>Code no.</i>	<i>Subject</i>	<i>Pds/week</i>		<i>Credit</i>	<i>Marks</i>	
		<i>L</i>	<i>S</i>		<i>Exam</i>	<i>Sessional</i>
PE/T/211	Engg. Thermodynamics - I	3		3	100	
PE/CSE/T/212	Numerical Methods & Computer programming	3		3	100	
PE/T/213	Fluid Mechanics	3		3	100	
PE/T/214	Electrical Machines-I	3		3	100	
PE/IEE/T/215	Electronics	3		3	100	
PE/T/216	Materials & Processes	3		3	100	
PE/CSE/S/211	PC Lab I		3	3		100
PE/S/212	Basic Elec. Engg. Lab		3	3		100
PE/IEE/S/213	Electronics Lab		3	3		100
PE/S/214	Workshop Practice - III		3	3		100
	Sub - Total	18	12	30	600	400
	Total		30	30	1000	
SECOND YEAR SECOND SEMESTER						
<i>Code no.</i>	<i>Subject</i>	<i>Pds/week</i>		<i>Credit</i>	<i>Marks</i>	
		<i>L</i>	<i>S</i>		<i>Exam</i>	<i>Sessional</i>
PE/T/221	Engg. Thermodynamics - II	3		3	100	
PE/T/222	Heat Transfer	3		3	100	
PE/T/223	Electrical Machines – II	3		3	100	
PE/T/224	Theory of Machines & Machine Design	3		3	100	
PE/T/225	Engineering Economics & Costing	3		3	100	
PE/IEE/T/226	Power Electronics	3		3	100	
PE/S/221	Fluid Mechanics Lab		3	3		100
PE/S/222	Electrical Machines Lab – I		3	3		100
PE/IEE/S/223	Digital Circuit Lab		3	3		100
PE/S/224	PC Lab - II		3	3		100
	Sub - Total	18	12	30	600	400
	Total		30	30	1000	

THIRD YEAR FIRST SEMESTER						
<i>Code no.</i>	<i>Subject</i>	<i>Pds/week</i>		<i>Credit</i>	<i>Marks</i>	
		<i>L</i>	<i>S</i>		<i>Exam</i>	<i>Sessional</i>
PE/T/311	Steam Generator	3		3	100	
PE/T/312	Steam & Gas Turbines	3		3	100	
PE/T/313	Fluid Machinery	3		3	100	
PE/T/314	Transducers & Measurement	3		3	100	
PE/T/315	Power Transfer Systems	3		3	100	
PE/T/316	Control Systems	3		3	100	
PE/S/311	Transducers & Measurement Lab		3	3		100
PE/S/312	Computational Lab		3	3		100
PE/S/313	Microprocessor Lab		3	3		100
PE/S/314	Heat Transfer Lab		3	3		100
	Sub - Total	18	12	30	600	400
	Total		30	30		1000
THIRD YEAR SECOND SEMESTER						
<i>Code no.</i>	<i>Subject</i>	<i>Pds/week</i>		<i>Credit</i>	<i>Marks</i>	
		<i>L</i>	<i>S</i>		<i>Exam</i>	<i>Sessional</i>
PE/T/321	Combustion & IC Engine	3		3	100	
PE/T/322	Power Plant Cycles & Systems	3		3	100	
PE/T/323	Non-Conventional Power Generation	3		3	100	
PE/T/324	Hydro Power Generation	3		3	100	
PE/T/325	Power Plant Instrumentation and Control	3		3	100	
PE/T/326	Electrical Machines & Power Control	3		3	100	
PE/S/321	Electrical Machines & Power Sys. Lab – I		3	3		100
PE/S/322	Fluid Machines Lab		3	3		100
PE/S/323	Fuels & Combustion Lab		3	3		100
PE/S/324	Nonconventional Power Lab		3	3		100
	Sub - Total	18	12	30	600	400
	Total		30	30		1000

FOURTH YEAR FIRST SEMESTER						
<i>Code no.</i>	<i>Subject</i>	<i>Pds/week</i>		<i>Credit</i>	<i>Marks</i>	
		<i>L</i>	<i>S</i>		<i>Exam</i>	<i>Sessional</i>
PE/T/411	Power Plant Auxiliaries & Material Handling	4		3	100	
PE/T/412	Power System Protection	3		3	100	
PE/T/413	Energy and Environmental Management	3		3	100	
PE/T/414	Elective – I	3		3	100	
	Grand Viva-Voce	Non Credits, compulsory approval from Dept.				
PE/S/411	Seminar		3	3		100
PE/S/412	Pollution Measurement & Control Lab		3	3		100
PE/S/413	Power Plant Familiarization Camp			1		100
PE/S/414	Heat Power Lab		3	3		100
PE/S/415	Project – I & II		4	2		100
	Sub - Total	13	13	24	400	500
	Total		26	24		900
FOURTH YEAR SECOND SEMESTER						
<i>Code no.</i>	<i>Subject</i>	<i>Pds/week</i>		<i>Credit</i>	<i>Marks</i>	
		<i>L</i>	<i>S</i>		<i>Exam</i>	<i>Sessional</i>
PE/T/421	Power Plant Operation & Maintenance Management	4		3	100	
PE/T/422	Nuclear Power Generation	3		3	100	
PE/T/423	Industrial Admin. & Management	4		3	100	
PE/T/424	Elective – II	3		3	100	
PE/S/421	Project – I		4	3		100
PE/S/422	Project – II		4	3		100
PE/S/423	Electrical Machines & Power System Lab – II		3	3		100
PE/S/424	Instrumentation and Control Lab		3	3		100
	Sub - Total	14	14	24	400	400
	Total		28	24		800