

Sector: Power								
Program: Bachelor of Vocation in Thermal Power Operation and Maintenance								
Semester: I								
Sl. No	Course Type	Semester	Course Code	Course	L	T	P	C
1	General Education	I		Introduction to Thermal Power Systems	3			3
2	General Education	I		Engineering Thermodynamics	3			3
3	General Education	I		Mechanical Equipment in Thermal Plants	3			3
4	General Education	I		Engineering Mathematics	3			3
5	OJT	I		Introduction to Boiler and Turbine Operations			18	18
	TOTAL				12		18	30
Semester: II								
1	General Education	II		Electrical Systems in Thermal Power	3			3
2	General Education	II		Heat Transfer and Fluid Mechanics	3			3
3	General Education	II		Engineering Materials	3			3
4	General Education	II		Environmental Safety Protocols	3			3
5	OJT	II		Computer Application in Thermal Power and Maintenance procedures for primary mechanical equipment			18	18
	TOTAL				12		18	30
Semester III								
1	General Education	III		Advanced Thermodynamics	3			3
2	General Education	III		Control and Instrumentation in Thermal Power	3			3
3	General Education	III		Combustion and Fuels	3			3
4	General Education	III		Maintenance Management and Practics	3			3
5	OJT	III		Experiment on heat exchanges and Introduction to control room equipment			18	18
	TOTAL				12		18	30
Semester IV								
1	General Education	IV		Cooling Systems and Water Treatment	3			3
2	General Education	IV		Renewable and hybrid power systems	3			3
3	General Education	IV		Energy Efficiency and Auditing	3			3
4	General Education	IV		Plant Economics and Financial Management	3			3
5	OJT	IV		Maintenance routines for Electrical Systems and Experiments with Control Systems			18	18
	TOTAL				12		18	30
Semester V								
1	General Education	V		Waste Heat recovery and Cogeneration	3			3
2	General Education	V		Reliability and Risk Assessment in Thermal Power	3			3
3	General Education	V		Advanced Control Systems	3			3
4	General Education	V		Regulatory and Environmental Compliances	3			3
5	OJT	V		Working with different fuels and Combustion systems and procedures for waste heat recovery and cogeneration			18	18
	TOTAL				12		18	30
Semester VI								
1	General Education	VI		Advanced Thermal Power Maintenance	3			3
2	General Education	VI		Turbine and Boiler Dynamics	3			3
3	General Education	VI		Project Management and Strategy	0			0
4	General Education	VI		Emerging Technologies in Thermal Power	6			6
5	OJT	VI		Major Project			18	18
	TOTAL				12		18	30