

ACADEMIC REGULATIONS & COURSE STRUCTURE

For

THERMAL ENGINEERING

(Applicable for batches admitted from 2016-2017)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA
KAKINADA - 533 003, Andhra Pradesh, India

I Semester

S.No.	Subject	L	P	C
1	Optimization Techniques & Applications	4	--	3
2	Advanced Thermodynamics	4	--	3
3	Advanced Heat & Mass Transfer	4	--	3
4	Advanced Fluid Mechanics	4	--	3
5	Elective – I 1. Gas Dynamics 2. Refrigeration & Cryogenics 3. Renewable Energy Technologies 4. Theory and Technologies of Fuel Cells	4	--	3
6	Elective – II 1. Advanced IC Engines 2. Solar Energy Technology 3. Turbo Machines 4. Alternative Fuels Technologies	4	--	3
7	Thermal Engineering Lab	--	3	2
Total Credits				20

II SEMESTER

S.No.	Subject	L	P	C
1	Fuels, Combustion & Environment	4	--	3
2	Energy Management	4	--	3
3	Finite Element Method	4	--	3
4	Computational Fluid Dynamics	4	--	3
5	Elective– III 1. Materials Technology 2. Convective Heat Transfer 3. Thermal and Nuclear Power Plants 4. Advanced Automobile Engg.	4	--	3
6	Elective– IV 1. Thermal Measurements and Process Controls 2. Cryogenic Engineering 3. Jet Propulsion and Rocketry 4. Equipment Design for Thermal Systems	4	--	3
7	Thermal Systems Design Lab	--	3	2
Total Credits				20

III Semester

S. No.	Subject	L	P	Credits
1	Comprehensive Viva-Voce	--	--	2
2	Seminar – I	--	--	2
3	Project Work Part - I	--	--	16
Total Credits				20

IV Semester

S. No.	Subject	L	P	Credits
1	Seminar – II	--	--	2
2	Project Work Part - II	--	--	18
Total Credits				20
