

M. Tech. Energy Management (Regular)

Year 2019-2021



Syllabus

School of Energy & Environmental Studies

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M. Tech. Energy Management (Regular)

Eligibility Graduate Degree in Engineering or M Sc. Physics with minimum 55% marks
 Duration 4 Semesters
 Seats 18

First Semester:

Code	Title	Credits (L-T-P)	Hours	Faculty
CORE COURSES				
EN7A-701	Solar Energy: Fundamentals, Devices and Systems	4 (3-1-0)	64	SPS
EN7A-702	New & Renewable Energy, Sources and Technologies	4 (3-1-0)	64	RNS
EN7A-703	Water and Waste Water: Pollution & Control Technologies	4 (3-1-0)	64	RNS
EN7A-704	Heat Transfer and Energy Conservation Laboratory	3 (0-0-3)	48	SPS
EN7A-705	Energy & Environment Software Application	3 (0-0-3)	48	DV
EN7A-706	Field Visit	1 (0-0-1)	16	SPS/RNS/RC
EN7A-707	Seminar	2		SPS/RNS/RC
ELECTIVE COURSES				
EN7A-708	Electrical Power Generation, Instrumentation, Measurements, Transmission and Distribution	3 (2-1-0)	48	VF
EN7A-709	Comprehensive Viva-voce	4		
	Total Credit	28		

Second Semester:

Code	Title	Credits (L T P)		
CORE COURSES				
EN7A-710	Engineering Thermodynamics, Heat Transfer and Process Integration	4 (3-1-0)	64	SPS
EN7A-711	Air and Noise Pollution: Effects and Control Technologies	4 (3-1-0)	64	RC
EN7A-712	Bio and Solid Waste Management	4 (3-1-0)	64	RNS
EN7A-713	Green Building Technologies	4 (3-1-0)	64	SPS
EN7A-714	Solar Thermal and Photo - Voltaic Laboratory	3 (0-0-3)	48	DV
ELECTIVE COURSES				
EN7A-715	Energy Modeling and Project Management	3 (0-0-3)	48	RNS
EN7A-716	Comprehensive Viva-voce	4		
	Total Credit	26		

Third Semester:

Code	Title	Credits (L T P)		
CORE COURSES				
EN7A-801	Energy Management (Thermal System)	4 (3-1-0)	64	SPS
EN7A-802	Energy Management (Electrical System)	4 (3-1-0)	64	DV
EN7A-803	Efficient Lighting: Sources, Systems and Design Aspects	4 (3-1-0)	64	DV
EN7A-804	Biomass and Environmental laboratory	3 (0-0-3)	48	RNS/RC
EN7A-805	Minor Project	4 (0-0-4)	64	SPS/RNS/RC
ELECTIVE COURSES				
EN7A-806	Sustainable development, Environmental Auditing and Environmental Impact Assessment	3 (2-1-0)	46	RC
EN7A-807	Comprehensive Viva-voce	4		
	Total Credit	26		

Fourth Semester:

Code	Title	Credits (L T P)		
CORE COURSES				
EN7A-808	Major Project	12 (0-0-12)		
EN7A-809	Comprehensive Viva-voce	4		
	Total Credit	16		
	Grand Total Credit	96		

10 seats are available for GATE qualified candidates. * Scholarship @Rs.12, 400/ month for GATE qualified candidates