

**Kurukshetra University, Kurukshetra
Institute of Environmental Studies**

**M. Tech.
(Energy & Environmental Management)**

**Scheme and Syllabus
(Based on CBCS-LOCF Pattern)
(Effective from 2020-21 in phased manner)**



**Faculty of Life Science, KUK
(August, 2020)**

**KURUSKHETRA UNIVERSITY, KURUKSHETRA
INSTITUTE OF ENVIRONMENTAL STUDIES
SCHEME OF EXAMINATION FOR
M.Tech. Energy and Environmental Management (EEM)**

FIRST SEMESTER

Paper Code	Title of Paper	Type of Paper	Hours/Week	Credits	Marks		
					Internal Assessment	Final Examination	Total
MEMT-101	Ecology and Systems Analysis	Core	4	4	40	60	100
MEMT-102	Energy Resources and Management	Core	4	4	40	60	100
MEMT-103	Energy and Climate Change	Core	4	4	40	60	100
MEMT-104	Research Techniques and Quantitative Methods	Core	4	4	40	60	100
MEMT-105	Practical - I	Core	8	4	40	60	100
MEMT-106	Practical - II	Core	8	4	40	60	100
Total				24	240	360	600

Note: Each Theory Final Examination will be of 3 hours and practical examination will be of 6 hours duration.

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SECOND SEMESTER

Paper Code	Title of Paper	Type of Paper	Hours/Week	Credits	Marks		
					Internal Assessment	Final Examination	Total
MEMT-201	Environmental Assessment and Management	Core	4	4	40	60	100
MEMT-202	Renewable Energy and Technology	Core	4	4	40	60	100
MEMT-203	Environmental Remote Sensing & GIS	Core	4	4	40	60	100
MEMT-204	Environmental Biotechnology and Biofuels	Core	4	4	40	60	100
MEMT-205	Seminar	Core	1	1	25	-	25
MEMT-206	Practical - I	Core	8	4	40	60	100
MEMT-207	Practical - II	Core	8	4	40	60	100
Total				25	265	360	625

Note: Each Theory Final Examination will be of 3 hours and practical examination will be of 6 hours duration.

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THIRD SEMESTER

Paper Code	Title of Paper	Type of Paper	Hours/Week	Credits	Marks			
					Internal Assessment	Final Examination	Total	
MEMT-301	EL-1A (Energy Conservation and Efficient Systems)	Elective	4	4	40	60	100	
	EL-1B (Environmental Bioremediation Technology)							
	EL-1C (Environmental Policies, Laws and Impact Assessment)							
MEMT-302	EL-2A (Industrial Energy)	Elective	4	4	40	60	100	
	EL-2B (Energy from Waste)							
	EL-2C (Environmental Modelling)							
MEMT-303	Minor Project/Practical	Core	8	4	40	60	100	
MEMT-304	Summer training (Report and Seminar)	Core	-	2	50	-	50	
MEMT-305	Seminar	Core	1	1	25	-	25	
MEMT-306	Practical	Elective	8	4	40	60	100	
Total					19	235	240	475

Note: The minor project in the form of summer training (8 weeks) report with some Industry/NGO/Research Institute/ organization will be submitted by the student in the 3rd Semester and the student will give a presentation on the training.

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FOURTH SEMESTER

Paper Code	Title of Paper	Type of Paper	Credits	Marks		
				Internal Assessment	Final Examination	Total
MEMT-401	Dissertation	Core	10	-	250	250
MEMT-402	Seminar on Dissertation	Core	2	50	-	50
MEMT-403	Viva-voce on Dissertation	Core	2	-	50	50
MEMT-404	Progressive Seminar/ Laboratory Development Work	Core	2	50	-	50
Total			16	100	300	400

Note: M.Tech Dissertation will be evaluated by the Internal Supervisor/ Examiner and an External Examiner.

The Dissertation will be based on scientific data collection, analysis and fieldwork.