

3 Years Extended M. Tech. Programme in Environmental Science & Engineering

SEMESTER - I				
Sr. No.	Subject Code	Courses	L-T-P	Credits
		<u>THEORY</u>		
1	BT449	Ecology	2-0-0	2
2	ES401	Natural Resources and Management	3-0-0	3
3	CE431/CE204	Environmental Engineering-I	3-1-0	4
4	ES403	Environmental Pollution and Control	3-0-0	3
5	CE433/CE307	Engineering Hydrology	3-1-0	4
6	MA403	Probability and Statistics	3-1-0	4
		<u>PRACTICALS</u>		
7	CE435/CE210	Environmental Engineering Lab-I	0-0-3	2
8	CE437	Environmental Monitoring Lab	0-0-3	2
9	GP401	General Proficiency	-	1
		Total	17-3-6	25
		Total Contact Hours	26	

SEMESTER - II				
Sr. No.	Subject Code	Courses	L-T-P	Credits
		<u>THEORY</u>		
1	ES402	Environmental Toxicology	3-1-0	4
2	CE452/CE305	Environmental Engineering-II	3-1-0	4
3	ES404	Natural Hazards	3-0-0	3
4	ES406	Soil Sciences	3-1-0	4
5	CE454	Environment Health	3-0-0	3
6	CE456/MB605	Entrepreneurship & Innovation	2-0-0	2
		<u>PRACTICALS</u>		
7	CE456	Seminar (Case Study on Environmental Aspect)	0-0-3	2
8	CE458	Environmental Engineering Lab-II	0-0-3	2
9	GP402	General Proficiency	-	1
		Total	17-3-6	25
		Total Contact Hours	26	

SEMESTER - III				
Sr. No.	Subject Code	Courses	L-T-P	Credits
		<u>THEORY</u>		
1	CE551/CE409	Operations Research	2-1-0	3
2	CE553/CE407	Remote Sensing & GIS	3-1-0	4
3	CE555	Environmental Chemistry and Microbiology	2-0-0	2
4	CE557/CE436	Unit Processes	3-1-0	4
5	CE559	Energy and Environment	3-0-0	3
6		Open Elective-I	2-0-0	2
		<u>PRACTICALS</u>		
7	CE561/CE421	Remote Sensing and GIS laboratory	0-0-3	2
8	CE563/CE425	Minor Project	0-0-3	2
9	GP501	General Proficiency	-	1
		Total	15-3-6	23
		Total Contact Hours	24	

SEMESTER – IV				
Sr. No.	Subject Code	Courses	L-T-P	Credits
		<u>THEORY</u>		
1	CE504/CE406	Modelling and Simulation	3-1-0	4
2	CE506/CE432	Advance Environmental Engineering	3-1-0	4
3	CE508/CE434	Air and Noise Pollution	3-1-0	4
4	CE510	Advanced Hydrology	2-1-0	3
5	BT588	Ecology & Sustainable Development	2-0-0	2
6		Open Elective –II	2-0-0	2
		<u>PPRACTICALS</u>		
7	CE516/CE444	Advance Environmental Engineering Lab-I	0-0-2	1
8	CE518/CE422	Seminar	0-0-3	2
9	GP502	General Proficiency		1
		Total	15-4-5	23
		Total Contact Hours	24	

SUMMER SEMESTER (After IV th Semester)				
Sr. No.	Subject Code	Courses	L-T-P	Credits
1		Minor Project	0-0-16	8
		Total	0-0-16	8
		Total Contact Hours	16	

SEMESTER – V				
Sr. No.	Subject Code	Courses	L-T-P	Credits
		<u>THEORY</u>		
1	CE601/CE531	Solid and Hazardous Waste Management	3-1-0	4
2	CE603/CE533	Soil and Groundwater Contamination	3-1-0	4
3	CE605/CE535	Environmental Impact Assessment	3-0-0	3
4	CE607/CE537	Management in WATSAN	3-0-0	3
5		Specialization Elective-II	2-1-0	3
		<u>PROJECTS</u>		
7	CE609	Advance Environmental Engineering Lab-II	0-0-2	1
8	CE611/CE519	Research Project (Preliminary)	1 ^{**} -0-3	3
9	GP601	General Proficiency		1
		Total	15-3-5	22
		Total Contact Hours	23	

*** This will not be a usual lecture session, but this is one to one interaction of each student with the concerned faculty member*

SEMESTER – VI				
Sr. No.	Subject Code	Courses	L-T-P	Credits
1	CE602	Research Project	21
2	GP602	General Proficiency	-	1
		Total	22

Grand Total Credits of Dual Degree = 148

List of Electives for M. Tech (Environment Engineering)

Specialisation Elective-II

1. CE541: Air Quality Modelling & Management
2. CE543: Climate Change and its Impact on Environment
3. CE545: Design of Environmental Facilities
4. CE547: Industrial Wastewater Treatment