

M Tech in Environmental Engineering

SCHEME OF STUDY (wef July 2021)

First Semester:

Course No.	Subject	Scheme of studies periods per week			Total Credits
		L	T	P	
MTH 514	Advanced Mathematics	3	-	-	3
EN 511	Physico-Chemical Treatment Processes	3	-	-	3
EN 512	Air and Noise Pollution	3	-	-	3
EN 513	Biological Treatment Processes	3	-	-	3
HUM 511	Communication Skills	2	-	-	2
	Elective-I (A)	3	-	-	3
	Elective-II (B)	3	-	-	3
EN 514	Lab-1	-	-	2	1
EN 515	Seminar-1	-	-	2	1
Total Hours: 24 Total Credits: 22		Total Semester Credits			22

Second Semester:

Course No.	Subject	Scheme of studies periods per week			Total Credits
		L	T	P	
EN 521	Sustainable Development, Ethics and Global Environmental Issues	3	-	-	3
EN 522	Solid Waste Management	3	-	-	3
EN 523	Environmental Impact Assessment & Legislation	3	-	-	3
	Elective-3 (A)	3	-	-	3
	Elective-4 (A)	3	-	-	3
	Elective-5 (C)	3	-	-	3
MTH 524	Research Methodology,	1	1	-	2
EN 525	Lab-2	-	-	2	1
EN 526	Seminar-2	-	-	2	1
Total Hours: 24 Total Credits: 44		Total Semester Credits			22

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Third Semester:

Course No.	Subject	Scheme of studies periods per week			Total Credits
		L	T	P	
EN 611	Dissertation Phase - I	-	-	32	16
Total Hours: 32 Total Credits: 60		Total Semester Credits			16

Fourth Semester:

Course No.	Subject	Scheme of studies periods per week			Total Credits
		L	T	P	
EN 621	Dissertation Phase - II	-	-	40	20
Total Hours: 40 Total Credits: 80		Total Semester Credits			20

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Civil Engineering Department

M Tech in Environmental Engineering

List of Program Electives A		List of Open Electives C	
EN551	Environmental Chemistry	ARP - 581	Introduction to Urban Planning
EN552	Environmental Quality Monitoring	BSE – 581	Bioprocess Engineering
EN553	Noise Pollution & Its Control	BSE – 582	Biophysics Tools and Techniques
EN554	Environmental Legislation	CHE – 581	Analytical Techniques
EN555	Principles of Ecology	CHE – 582	Green Technology & Processes
EN556	Environmental Auditing & Management System	CSE – 581	Machine Learning
EN557	Advanced Treatment Methods	CSE – 582	Advanced Data Structures and Algorithms
EN558	Industrial Waste Treatment and Disposal	PHY – 581	Nanotechnology and Nanoscience
EN559	Hazardous Waste Management & Risk Analysis	EE – 581	Electric Machines & Applications
EN560	Global Warming and Climate Change	EE – 582	Control and Instrumentation
		ECE – 581	Introduction to Fuzzy Logic
		ECE – 582	Neural Networks and its Applications
		EC - 581	Energy Resource Technologies
List of Departmental Electives B		HUM – 581	Intellectual Property Rights for Engineers
GI 512	Basics of Remote Sensing Technology	HUM – 582	Applied Psychology: Human Centered Design and Engineering
GI 557	Remote sensing and GIS applications in Environmental Engineering	MTH – 581	Advanced Operations Research
WR 511	Computational Techniques in Water Resources	MTH – 582	Computing Technologies
WR 559	Water Harvesting, Recycling and Reuse	ME – 581	Value Engineering
HY 555	Instrumentation & Measurements	ME – 582	Design Thinking
GE 552	Environmental Geotechniques	ME - 583	Mechatronics and NDT in Engineering
		MME – 581	Advanced Instrumentation Methods for Material Analysis
		MME – 582	Smart Materials and their Application
		MBA-581	Engineering Startup Management