



Scheme of Examination for M.Tech–Environmental Engineering Program SEMESTER WISE COURSE STRUCTURE

First Semester

S. NO.	Subject Code	Course Title	L	T	P	C	Examination marks		Subject Total
							Int.	Ext.	
1	13160118	Professional and Communication Skills	0	0	4	2	40	60	100
2	13160119	Quantitative Analysis in Energy and Environment	3	1	0	4	40	60	100
3	13160120	Renewable Energy Technology	3	0	0	3	40	60	100
4	13160121	Physico-chemical, Biological Principles and Processes	4	0	0	4	40	60	100
5	13160122	Environmental Quality Monitoring	2	0	0	2	40	60	100
6	13160123	Energy Auditing, Conservation & Management	3	0	0	3	40	60	100
7	13160124	Environmental Quality Monitoring Lab	0	0	4	2	20	30	50
8	13160125	Renewable Energy Technology Lab	0	0	2	1	20	30	50
Total			15	1	10	21	280	420	700

Second Semester

S. NO.	Subject Code	Course Title	L	T	P	C	Examination marks		Subject Total
							Int.	Ext.	
1	13160225	Energy, Instrumentation, Measurement & Control	2	0	0	2	40	60	100
2	13160226	Environmental Audit & Impact Assessment	3	0	0	3	40	60	100
3	13160227	Design of Water & Wastewater Treatment Systems	2	0	0	2	40	60	100
4	13160228	Air Pollution & Its Control	3	0	0	3	40	60	100
5		Elective-I	3	0	0	3	40	60	100
6		Elective-II	3	0	0	3	40	60	100
9	13160239	Design of Water & Wastewater Treatment Systems Lab	0	0	4	2	20	30	50
Total			16	0	4	18	260	390	650



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Third Semester

S. NO.	Subject Code	Course Title	L	T	P	C	Examination marks		Subject Total
							Int.	Ext.	
1		Elective-III	3	0	0	3	40	60	100
2		Elective-IV	3	0	0	3	40	60	100
3		Elective-V	3	0	0	3	40	60	100
4	13160324	Comprehensive Examination	-	-	-	2	20	30	50
5	13160325	Research Project- Phase1	-	-	-	4	75	125	200
		Total	9	0	0	15	215	335	550

Fourth Semester

S. NO.	Subject Code	Course Title	L	T	P	C	Examination marks		Subject Total
							Int.	Ext.	
1	13160403	Research Project- Phase II	-	-	-	16	130	170	300
		Total	0	0	0	16	130	170	300

List of Program Electives

S. NO.	Subject Code	Course Title	L	T	P	C	Examination marks		Subject Total
							Int.	Ext.	
Elective-I									
1	13160229	Earth and Environment	3	0	0	3	40	60	100
2	13160230	Solid Waste Management	3	0	0	3	40	60	100
3	13160231	Hazardous Waste Management & Risk Assessment	3	0	0	3	40	60	100
4	13160232	Design of Wastewater Treatment & Disposal System	3	0	0	3	40	60	100
5	13160233	Urban Environmental Quality Management	3	0	0	3	40	60	100
Elective-II									
1	13160234	Environmental Geo-technology	3	0	0	3	40	60	100
2	13160235	Remote Sensing & GIS Applications	3	0	0	3	40	60	100
3	13160236	Application of Bio-technology in Environmental Engineering	3	0	0	3	40	60	100
4	13160237	Risk Assessment and Disaster Management	3	0	0	3	40	60	100
5	13160238	Mathematical Modeling in Environmental Engg.	3	0	0	3	40	60	100
Elective-III									
1	13160316	Clean Development Mechanism & Green Technologies	3	0	0	3	40	60	100
2	13160317	Environmental Ecology	3	0	0	3	40	60	100
Elective-IV									
1	13160318	Design of Water Supply Treatment and Treatment Systems	3	0	0	3	40	60	100
2	13160319	Emerging Trends in Waste Treatment	3	0	0	3	40	60	100
3	13160320	Eco-hydrology & Pollute Transport	3	0	0	3	40	60	100
Elective-V									
1	13160321	Fate and Transport of Contaminants in Natural Systems	3	0	0	3	40	60	100
2	13160322	Environmental Economics, Legislation and Management	3	0	0	3	40	60	100
3	13160323	Atmospheric Processes & Climate Change	3	0	0	3	40	60	100
		Total Credits (<i>students to opt for any 5 courses</i>)	15						

Total Credit offer= 70