

**School Name: School of Engineering**  
**Department Name : Civil Engineering**  
**Programme Name: M. Tech in Energy and Environmental Engineering**  
**Scheme: 2016-2018**

**SEMESTER I**

S.No	Course Code	Course Title	L	T	P	C
1	ENG584P	Professional and Communication Skills	0	0	4	2
2	MAT502	Advance Numerical & Statistical Methods	3	1	0	4
3	ENE512	Renewable Energy Technology	3	0	0	4
4	ENE513	Physico-chemical, Biological Principles and Processes	4	0	0	4
5	ENE514	Environmental Quality Monitoring	2	0	0	4
6	ENE515	Energy Auditing, Conservation & Management	3	0	0	3
7	ENE552	Environmental Quality Monitoring Lab	0	0	4	2
		<b>Total Credits</b>				<b>21</b>

**SEMESTER II**

S.No	Course Code	Course Title	L	T	P	C
1	ENE521	Energy, Instrumentation, Measurement & Control	2	0	2	3
2	ENE522	Environmental Audit & Impact Assessment	3	0	0	3
3	ENE523	Design of Water & Wastewater Treatment Systems	2	0	4	4
4	ENE524	Air Pollution & Its Control	3	0	0	3
5		Elective-I	3	0	0	3
6		Elective-II	3	0	0	3

**SEMESTER III**

S.No	Course Code	Course Title	L	T	P	C
1		Elective-III	3	0	0	3
2		Elective-IV	3	0	0	3
3		Elective-V	3	0	0	3
4	ENE633	Comprehensive Examination	-	-	-	2
5	ENE699	Research Project	-	-	-	4
		<b>Total Credits</b>				<b>15</b>
		<b>Total Credits</b>				<b>17</b>

**SEMESTER IV**

S.No	Course Code	Course Title	L	T	P	C
1	ENE699	Research Project (Phase II)	-	-	-	16

### LIST OF PROGRAM ELECTIVES

S.No.	Course Code	Course Title	L	T	P	C
1	ENE532	Electrical Energy Management	3	0	0	3
2	ENE533	Small Hydro-power Systems	3	0	0	3
3	ENE534	Solar Energy Technologies	3	0	0	3
4	ENE536	Hydrogen & Fuel Cells	3	0	0	3
5	ENE537	Nuclear Power Engineering	3	0	0	3
6	ENE539	Power Plant Engineering	3	0	0	3
7	ENE562	Solid Waste Management	3	0	0	3
8	ENE591	Energy, Environment Climate Change	3	0	0	3
9	ENE592	Energy in Built Environment	3	0	0	3
10	ENE677	Bio-Energy Technologies	3	0	0	3
11	ENE679	Energy Efficient Buildings	3	0	0	3
12	ENE681	Mathematical Modeling in Environmental Engg.	3	0	0	3
13	ENE682	Clean Development Mechanism & Green Technologies	3	0	0	3
14	ENE683	Environmental Ecology	3	0	0	3
15	ENE684	Design of Water Supply Treatment and Treatment Systems	3	0	0	3