

## COURSE STRUCTURE M.Tech (Energy Technology)

**PO3:** An ability to analyse complex problems in the field of energy engineering critically and to use modern simulation tools to model and analyze problems related to energy engineering and management.

**PO4:** Ability to write and present a substantial technical report/document.

### 5 Programme structure

Course category	Number of courses	Credits per course	Total Credits
A. Core course			
a. Theory	8	3 and 4	25
b. Laboratory	2	3	6
c. Field Study	1	2	2
B. Elective course	3	3	9
C. Open Elective course	2	3	6
D. Project Work	2	8 and 16	24
<b>Total credits</b>	<b>16</b>		<b>72</b>

#### 5.1 Semester-wise Course Structure

##### SEMESTER I

Course type	Course code	Course title	L	T	P	CH	Cr
Core	EN560	Foundation for Energy Technology	3	0	0	3	3
	EN561	Fuel and Combustion	3	0	0	3	3
	EN562	Heat Transfer	3	0	0	3	3
	EN563	Solar Energy Engineering and Application	3	0	0	3	3
	EN564	Biomass Energy and Application	3	0	0	3	3
	EN565	Wind and Hydro Energy	3	0	0	3	3
	EN 566	Energy Laboratory	0	0	3	6	3
Open Elective		Open Elective I				3	3
		<b>Total</b>				<b>27</b>	<b>24</b>

##### SEMESTER II

Course type	Course code	Course title	L	T	P	CH	Cr
Core	EN 570	Energy Management and Auditing	3	1	0	4	4
	EN 571	Energy Economics and Planning	3	0	0	3	3
	EN 572	Energy Systems and Simulation Laboratory	0	0	3	6	3
	EN 573	Energy Study with Community Engagement	3	0	2	4	2