

**Course Structure of B.Tech. in Chemical Engineering:  
Major in Renewable Energy Engineering (2022- Batch)**

**Category-wise current allocation**

Category	Programme component	Existing Credits		Current Allocation
		Min	Max	
HU	Humanities & Social Science	22	22	22
IS	Science	70	90	91
IE	Institute Engineering	40	70	57
EP	Engineering Drawing, Workshop	18	24	15
LM	Language & Management	18	24	20
DC	Departmental Core	145	190	212
DE	Departmental Elective	30	75	36
OE	Open Elective	15	20	18
DP	Project/Industrial Visit	20	50	20
	<b>TOTAL</b>	<b>440</b>	<b>490</b>	<b>491</b>

S. No.	Summer Internship/Project	L-T-P	Credit
1.	Project/Internship in Industry	0-0-5	5

S. No.	7th Semester	L-T-P	Credit
1.	Industrial Pollution and Control	2-0-0	6
2.	Mass Transfer Operations-3	2-0-0	6
3.	Plant Design and Economics	3-0-0	9
4.	DE3: Photovoltaic	3-0-0	9
5.	Open Elective-1	3-0-0	9
6.	Organizational Psychology	2-0-0	6
7.	Principles of Economics	2-0-0	6
8.	Industrial Pollution and Control Lab	0-0-2	2
9.	Plant Design and Economics Lab	0-0-2	2
	<b>Total Credit</b>		<b>55</b>

S. No.	8th Semester	L-T-P	Credit
1.	Modelling Simulation and Optimization	2-0-0	6
2.	Environmental Studies	2-0-0	6
3.	DE4: (Solar Thermal Energy, Fuel Cell Technology, Hydrogen Energy, Biochemical Engg.)	3-0-0	9
4.	Open Elective-2	3-0-0	9
5.	Sociology of Industry and Work Culture	2-0-0	6
6.	Foundations of Management	2-0-0	6
7.	Modelling Simulation and Optimization Lab	0-0-2	2
8.	B. Tech Project/Internship	0-0-5	5
	<b>Total Credit</b>		<b>49</b>