

Grams: "TECHNOLOGY"
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by Andhra Pradesh Act No.30 of 2008)

Kukatpally, Hyderabad – 500 085, Andhra Pradesh (India)

B.TECH (CHEMICAL ENGINEERING)

I YEAR

Code	Subject	L	T/P/D	Credits
	English	2	-	4
	Mathematics – I	3	1	6
	Engineering Mechanics	3	-	6
	Engineering Physics	3	-	6
	Engineering Chemistry	3	-	6
	Computer Programming	3	-	6
	Engineering Drawing	2	3	6
	Computer Programming Lab.	-	3	4
	Engineering Physics & Engineering Chemistry Lab	-	3	4
	English Language Communication Skills Lab.	-	3	4
	Engineering Workshop / IT Workshop	-	3	4
	Total	19	16	56

II YEAR I SEMESTER

Code	Subject	L	T/P/D	C
	Mathematics –II	4	-	4
	Electrical Engineering	4	-	4
	Material Science for Chemical Engineers	4	-	4
	Environmental Studies	4	-	4
	Analytical Chemistry	4	-	4
	Chemical Process Calculations	4	-	4
	Electrical Engineering Lab	-	3	2
	Analytical Chemistry Lab	-	3	2
	Total	24	6	28

II YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Probability and Statistics	4	-	4
	Management Science	4	-	4
	Chemical Engineering Fluid Mechanics	4	-	4
	Organic Chemistry	4	-	4
	Chemical Engineering Thermodynamics-I	4	-	4
	Mechanical Operations	4	-	4
	Fluid Mechanics Lab	-	3	2
	Mechanical Operations Lab	-	3	2
	Total	24	6	28

III YEAR I SEMESTER

Code	Subject	L	T/P/D	C
	Chemical Engineering Thermodynamics-II	4	-	4
	Chemical Reaction Engineering-I	4	-	4
	Mass Transfer Operations-I	4	-	4
	Process Heat Transfer	4	-	4
	Inorganic Chemical Technology	4	-	4
	Process Instrumentation	4	-	4
	Advanced Communication Skills Lab	-	3	2
	Process Heat Transfer Lab	-	3	2
	Total	24	6	28

III YEAR II SEMESTER

Code	Subject	L	T/D/P	C
	Organic Chemical Technology	4	-	4
	Mass Transfer Operations – II	4	-	4
	Chemical Reaction Engineering-II	4	-	4
	Chemical Engineering Mathematics	4	-	4
	Chemical Engineering Plant Design and Economics	4	-	4
	Open Elective Disaster Management Human Values and Professional Ethics Intellectual Property Rights	4	-	4
	Mass Transfer Operations Lab	-	3	2
	Chemical Reaction Engineering Lab	-	3	2
	Total	24	6	28

IV YEAR I SEMESTER

Code	Subject	L	T/P/D	C
	Transport Phenomena	4	-	4
	Process Dynamics & Control	4	-	4
	Chemical Process Equipment Design	4	-	4
	Process Modeling and Simulation	4	-	4
	Elective-I Biochemical Engineering Computational Fluid Dynamics Nanotechnology	4	-	4
	Elective - II Polymer Technology Petroleum and Petrochemical Technology Chemical Process Optimization	4	-	4
	Process Dynamics and Control Lab	-	3	2
	Simulation Lab	-	3	2
	Total	24	6	28

IV YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Industrial Pollution & Control Engineering	4	-	4
	Elective-III Membrane Technology Fluidization Engineering Technology of Pharmaceuticals and Fine Chemicals	4	-	4
	Elective – IV Food Processing Technology Industrial safety and Hazard management Energy Engineering	4	-	4
	Industry Oriented Mini Project	-	-	2
	Seminar	-	6	2
	Project Work	-	15	10
	Comprehensive viva	-	-	2
	Total	12	21	28

Note:All End Examinations (Theory and Practical) are of three hours duration.

T-Tutorial L – Theory P – Practical/Drawing C – Credits