

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. MECHANICAL ENGINEERING (PRODUCTION)

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
	Environmental Studies	4	-	4
	Probability and Statistics	4	-	4
	Electrical and Electronics Engineering	4	-	4
	Mechanics of Solids	4	-	4
	Thermal Sciences	4	-	4
	Metallurgy and Materials Science	4	-	4
	Electrical and Electronics Engineering Lab	-	3	2
	Metallurgy & Mechanics of Solids Lab	-	3	2
	Total	24	6	28

II YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Foundry Technology	4	-	4
	Kinematics of Machinery	4	-	4
	Welding Technology	4	-	4
	Mechanics of Fluids and Hydraulic Machines	4	-	4
	Machine Drawing	-	6	4
	Mathematics-II	4	-	4
	Production Technology Lab	-	3	2
	Mechanics of Fluids & Hydraulic Machines Lab	-	3	2
	Total	20	12	28

III YEAR I SEMESTER

Code	Subject	L	T/P/D	C
	Managerial Economics and Financial Analysis	4	-	4
	Metrology	4	-	4
	Dynamics of Machinery	4	-	4
	Machine Tools	4	-	4
	Design of Machine Members – I	4	-	4
	Metal Forming	4	-	4
	Machine Tools & Metrology Lab	-	3	2
	Metal Forming Lab	-	3	2
	Total	24	6	28

III YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Industrial Management	4	-	4
	Finite Element Method	4	-	4
	Metal Cutting and Tool Design	4	-	4
	Design of Machine Members – II	4	-	4
	Heat Transfer	4	-	4
	Open Elective	4	-	4
	Disaster Management			
	Intellectual Property Rights			
	Human Values and Professional Ethics			
	Thermal & Heat Transfer Lab	-	3	2
	Advanced Communication Skills Lab	-	3	2
	Total	24	6	28

IV YEAR I SEMESTER

Code	Subject	L	T/P/D	C
	Operations Research	4	-	4
	Mechatronics & its applications	4	-	4
	CAD/CAM	4	-	4
	Instrumentation and Control Systems	4	-	4
	ELECTIVE – I	4	-	4
	Robotics			
	Computer Integrated Manufacturing			
	CNC Technology			
	Machine Tool Design			
	Engineering Optimization			
	ELECTIVE – II	4	-	4
	Unconventional Machining Processes			
	Advanced Manufacturing Systems			
	Automation in Manufacturing			
	Design for Manufacturing & Assembly			
	Nanotechnology			
	Computer Aided Design & Manufacturing Lab	-	3	2
	Production Drawing Practice and Instrumentation Lab	-	3	2
	Total	24	6	28

IV YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Production Planning and Control	4	-	4
	ELECTIVE – III	4	-	4
	Artificial Neural Networks			
	Reliability Engineering			
	Maintenance and Safety Engineering			
	Plant Layout & Material Handling			
	Composite Materials			
	ELECTIVE – IV	4	-	4
	Flexible Manufacturing Systems			
	Advanced Manufacturing Processes			
	Total Quality Management			
	Product Design and Development			
	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