Grams: "TECHNOLOGY"
E Mail: dapjntuh@gmail.com

R-13

Phone: Off: +91–40–23156115
Fax: +91–40–23158665

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

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

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

B.TECH. CIVIL ENGINEERING

I YEAR

Code	Subject	L	T/P/D	C
	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 & Electronics Engineering	4	-	4
	Strength of Materials –I	4	-	4
	Surveying	4	-	4
	Fluid Mechanics	4	-	4
	Managerial Economics and Financial Analysis	4	-	4
	Surveying Lab- I	-	3	2
	Strength of Materials Lab	-	3	2
	Total	**24**	**6**	**28**

II YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Probability & Statistics	4	-	4
	Strength of Materials - II	4	-	4
	Hydraulics & Hydraulic Machinery	4	-	4
	Environmental Studies	4	-	4
	Structural Analysis –I	4	-	4
	Building Materials, Construction & Planning	4	-	4
	Computer Aided Drafting of Buildings	-	3	2
	Surveying Lab- II	-	3	2
	Total	**24**	**6**	**28**

III YEAR I SEMESTER

Code	Subject	L	T/P/D	C
	Concrete Technology	4	-	4
	Reinforced Concrete Structures Design and Drawing	4	-	4
	Engineering Geology	4	-	4
	Geotechnical Engineering	4	-	4
	Water Resources Engineering-I	4	-	4
	Open Elective Disaster Management Intellectual Property Rights Human Values and Professional Ethics	4	-	4
	Fluid Mechanics & Hydraulic Machinery Lab	-	3	2
	Engineering Geology Lab	-	3	2
	Total	**24**	**6**	**28**

III YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Steel Structures Design and Drawing	3	2	4
	Environmental Engineering	4		4
	Transportation Engineering -I	4		4
	Foundation Engineering	4		4
	Structural Analysis -II	4		4
	Elective -I Elements of Earthquake Engineering Ground Improvement Techniques Ground Water Hydrology Environmental impact assessment Principles of Entrepreneurship	4	-	4
	Geotechnical Engineering Lab	-	3	2
	Advanced Communication Skills Lab	-	3	2
	Total	**23**	**8**	**28**

IV YEAR I SEMESTER

Code	Subject	L	T/P/D	C
	Remote Sensing & GIS	4	-	4
	Transportation Engineering -II	4	-	4
	Estimating & Costing	4	-	4
	Water Resources Engineering-II	4	-	4
	Elective-II Finite Element Methods Advanced Foundation Engineering Watershed Management Air Pollution and Control	4	-	4
	Elective-III Advanced Structural Design Earth and Rock fill Dams and Slope Stability Water Resources Systems Analysis Industrial Waste Water Treatment	4	-	4
	Concrete & Highway Materials Lab	-	3	2
	Environmental Engineering Lab	-	3	2
	Total	**24**	**6**	**28**

IV YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Elective-IV Rehabilitation and Retrofitting of Structures Geo-Environmental Engineering Design and Drawing of Irrigation Structures Solid Waste Management	4	-	4
	Prestressed Concrete Structures	4	-	4
	Construction Management	4	-	4
	Industry Oriented Mini project	-	-	2
	Seminar	-	6	2
	Project	-	15	10
	Comprehensive viva	-	-	2
	Total	**12**	**21**	**28**

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B.TECH. MECHANICAL 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	-	3	4
	Total	**19**	**16**	**56**

II YEAR I SEMESTER

Code	Subject	L	P/D	C
	Environmental Studies	4	-	4
	Probability and Statistics	4	-	4
	Electrical and Electronics Engineering	4	-	4
	Mechanics of Solids	4	-	4
	Thermodynamics	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
	Production Technology	4	-	4
	Kinematics of Machinery	4	-	4
	Thermal Engineering -I	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
	Engineering Metrology	4	-	4
	Dynamics of Machinery	4	-	4
	Machine Tools	4	-	4
	Design of Machine Members – I	4	-	4
	Thermal Engineering -II	4	-	4
	Machine Tools & Metrology Lab	-	3	2
	Thermal Engineering Lab	-	3	2
	Total	**24**	**6**	**28**

III YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Automobile Engineering	4	-	4
	Finite Element Methods	4	-	4
	Refrigeration and Air Conditioning	4	-	4
	Design of Machine Members – II	4	-	4
	Heat Transfer	4	-	4
	Open Elective Disaster Management Intellectual Property Rights Human Values and Professional Ethics	4	-	4
	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
	Power Plant Engineering	4	-	4
	CAD/CAM	4	-	4
	Instrumentation and Control Systems	4	-	4
	ELECTIVE – I Robotics Mechanical Vibrations Mechatronics Composite Materials Industrial Management	4	-	4
	ELECTIVE – II Unconventional Machining Processes CNC Technology Automation in Manufacturing Design for Manufacturing Nanotechnology	4	-	4
	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 Artificial Neural Networks Total Quality Management Maintenance and Safety Engineering Plant Layout & Material Handling	4	-	4
	ELECTIVE – IV Renewable Energy Sources Jet Propulsion & Rocket Engineering Computational Fluid Dynamics Gas Dynamics	4	-	4
	Industry Oriented Mini Project	-	-	2
	Seminar	-	6	2
	Project Work	-	15	10
	Comprehensive Viva	-	-	2
	Total	**12**	**21**	**28**

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B. TECH. ELECTRONICS AND COMMUNICATION ENGINEERING

I YEAR

Code	Subject	L	T/P/D	C
	English	2	-	4
	Mathematics – I	3	1	6
	Mathematical Methods	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
	IT Workshop / Engineering Workshop	-	3	4
	Total	**19**	**16**	**56**

II YEAR I SEMESTER

Code	Subject	L	T/P/D	C
	Mathematics - III	4	-	4
	Probability Theory and Stochastic Processes	4	-	4
	Switching Theory and Logic Design	4	-	4
	Electrical Circuits	4	-	4
	Electronic Devices and Circuits	4	-	4
	Signals and Systems	4	-	4
	Electronic Devices and Circuits Lab.	-	3	2
	Basic Simulation Lab.	-	3	2
	Total	**24**	**6**	**28**

II YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Principles of Electrical Engineering	4	-	4
	Electronic Circuit Analysis	4	-	4
	Pulse and Digital Circuits	4	-	4
	Environmental Studies	4	--	4
	Electromagnetic Theory and Transmission Lines	4	-	4
	Digital Design using Verilog HDL	4	-	4
	Electrical Technology Lab.	-	3	2
	Electronic Circuits and Pulse Circuits Lab.	-	3	2
	Total	**24**	**6**	**28**

III YEAR I SEMESTER

Code	Subject	L	T/P/D	C
	Control Systems Engineering	4	-	4
	Computer Organization and Operating Systems	4	-	4
	Antennas and Wave Propagation	4	-	4
	Electronic Measurements and Instrumentation	4	-	4
	Analog Communications	4	-	4
	Linear and Digital IC Applications	4	-	4
	Analog Communications Lab.	-	3	2
	IC Applications and HDL Simulation Lab.	-	3	2
	Total	**24**	**6**	**28**

III YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Managerial Economics and Financial Analysis	4	-	4
	Open Elective: Human Values and Professional Ethics Disaster Management Intellectual Property Rights	4	-	4
	Digital Communications	4	-	4
	VLSI Design	4	-	4
	Microprocessors and Microcontrollers	4	-	4
	Digital Signal Processing	4	-	4
	Microprocessors and Microcontrollers Lab.	-	3	2
	Digital Signal Processing Lab.	-	3	2
	Total	**24**	**6**	**28**

IV YEAR I SEMESTER

Code	Subject	L	T/P/D	C
	Management Science	4	-	4
	Microwave Engineering	4	-	4
	Computer Networks	4	-	4
	Cellular and Mobile Communications	4	-	4
	Elective -I: Digital Image Processing Multimedia and Signal Coding Object Oriented Programming through Java	4	-	4
	Elective -II: Television Engineering Optical Communications Embedded Systems Design	4	-	4
	Advanced Communication Skills Lab,	-	3	2
	Microwave Engineering and Digital Communications Lab	-	3	2
	Total	**24**	**6**	**28**

IV YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Elective -III: Satellite Communications Biomédical Instrumentation Artificial Neural Networks	4	-	4
	Elective -IV: Telecommunication Switching Systems and Networks Radar Systems Network Security	4	-	4
	Elective -V: Wireless Communications and Networks Digital Signal Processors and Architectures RF Circuit Design	4	-	4
	Industry Oriented Mini Project	-	-	2
	Seminar	-	6	2
	Major Project	-	15	10
	Comprehensive Viva	-	-	2
	Total	**12**	**21**	**28**

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mailto:pa2registrar@jntuh.ac.in

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B. TECH. COMPUTER SCIENCE AND ENGINEERING

I YEAR

Code	Subject	L	T/P/D	C
	English	2	-	4
	Mathematics - I	3	1	6
	Mathematical Methods	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
	IT Workshop / Engineering Workshop	-	3	4
	Total	**19**	**16**	**56**

II YEAR I SEMESTER

Code	Subject	L	T/P/D	C
	Probability and Statistics	4	-	4
	Mathematical Foundations of Computer Science	4	-	4
	Data Structures	4	-	4
	Digital Logic Design	4	-	4
	Electronic Devices and Circuits	4	-	4
	Basic Electrical Engineering	4	-	4
	Electrical and Electronics Lab	-	3	2
	Data Structures Lab	-	3	2
	Total	**24**	**6**	**28**

II YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Computer Organization	4	-	4
	Database Management Systems	4	-	4
	Java Programming	4	-	4
	Environmental studies	4	-	4
	Formal Languages and Automata Theory	4	-	4
	Design and Analysis of Algorithms	4	-	4
	Java Programming Lab	-	3	2
	Database Management Systems Lab	-	3	2
	Total	**24**	**6**	**28**

III YEAR I SEMESTER

Code	Subject	L	T/P/D	C
	Principles of Programming Languages	4	-	4
	OPEN ELECTIVE Human Values and Professional Ethics Intellectual Property Rights Disaster Management	4	-	4
	Software Engineering	4	-	4
	Compiler Design	4	-	4
	Operating Systems	4	-	4
	Computer Networks	4	-	4
	Operating Systems Lab	-	3	2
	Compiler Design Lab	-	3	2
	Total	**24**	**6**	**28**

III YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Distributed Systems	4	-	4
	Information Security	4	-	4
	Object Oriented Analysis and Design	4	-	4
	Software Testing Methodologies	4	-	4
	Managerial Economics and Financial Analysis	4	-	4
	Web Technologies	4	-	4
	Case Tools and Web Technologies Lab	-	3	2
	Advanced English Communication Skills Lab	-	3	2
	Total	**24**	**6**	**28**

IV YEAR I SEMESTER

Code	Subject	L	T/P/D	C
	Linux Programming	4	-	4
	Design Patterns	4	-	4
	Data Warehousing and Data Mining	4	-	4
	Cloud Computing	4	-	4
	ELECTIVE – I Software Project Management Image processing and Pattern Recognition Mobile Computing Computer Graphics Operations Research	4	-	4
	ELECTIVE – II Machine Learning Soft Computing Information Retrieval Systems Artificial Intelligence Computer Forensics	4	-	4
	Linux Programming Lab	-	3	2
	Data Warehousing and Mining Lab	-	3	2
	Total	**24**	**6**	**28**

IV YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Management Science	4	-	4
	ELECTIVE III Web Services Semantic Web and Social Networks Scripting Languages Multimedia & Rich Internet Applications	4	-	4
	ELECTIVE – IV Ad hoc and Sensor Networks Storage Area Networks Database Security Embedded Systems	4	-	4
	Industry Oriented Mini Project	-	-	2
	Seminar	-	6	2
	Project Work	-	15	10
	Comprehensive Viva	-	-	2
	Total	**12**	**21**	**28**

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