



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. 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	4	-	4
	Human Values and Professional Ethics			
	Intellectual Property Rights			
	Disaster Management			
	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	4	-	4
	Software Project Management			
	Image processing and Pattern Recognition			
	Mobile Computing			
	Computer Graphics			
	Operations Research			
	ELECTIVE – II	4	-	4
	Machine Learning			
	Soft Computing			
	Information Retrieval Systems			
	Artificial Intelligence			
	Computer Forensics			
	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	4	-	4
	Web Services			
	Semantic Web and Social Networks			
	Scripting Languages			
	Multimedia & Rich Internet Applications			
	ELECTIVE – IV	4	-	4
	Ad hoc and Sensor Networks			
	Storage Area Networks			
	Database Security			
	Embedded Systems			
	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