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 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**

Note: All End Examinations (Theory and Practical) are of three hours duration.
T-Tutorial   L – Theory   P – Practical/Drawing   C – Credits