

**JAYVAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY - HYDERABAD**  
**B.TECH. COMPUTER SCIENCE & ENGINEERING**

**I YEAR COURSE STRUCTURE**

<b>Code</b>	<b>Subject</b>	<b>L</b>	<b>T/P/D</b>	<b>C</b>
51001	English	2	-	4
51002	Mathematics - I	3	1	6
51008	Mathematical Methods	3	1	6
51004	Engineering Physics	2	1	4
51005	Engineering Chemistry	2	-	4
51006	Computer Programming & Data Structures	3*	-	6
51007	Engineering Drawing	2	3	4
51616	Computer Programming Lab.	-	3	4
51617	Engineering Physics / Chemistry Lab.	-	3	4
51618	English Language Communication Skills Lab.	-	3	4
51619	IT Workshop / Engineering Workshop	-	3	4
	<b>Total</b>	<b>17</b>	<b>18</b>	<b>50</b>

**II YEAR I SEMESTER COURSE STRUCTURE**

Code	Subject	L	T/P/D	C
53014	Probability and Statistics	3	1	3
53022	Mathematical Foundations of Computer Science	3	1	3
53023	Data Structures through C++	4	1	4
53024	Digital Logic Design	4	1	4
53009	Electronic Devices and Circuits	4		4
53025	Basic Electrical Engineering	3	1	3
53608	Electrical and Electronics Lab		3	2
53609	Data Structures Lab through C++		3	2
	<b>Total</b>	<b>21</b>	<b>11</b>	<b>25</b>

**II YEAR II SEMESTER COURSE STRUCTURE**

Code	Subject	L	T/P/D	C
54012	Computer Organization	4	1	4
54013	Data Base Management Systems	4	1	4
54014	Object Oriented Programming	4		4
54004	Environmental studies	3	1	3
54015	Formal Languages and Automata Theory	3	1	3
54016	Design and Analysis of Algorithms	3	1	3
54609	Object Oriented Programming Lab		3	2
54610	Data Base Management Systems Lab		3	2
	<b>Total</b>	<b>21</b>	<b>11</b>	<b>25</b>

**III YEAR I SEMESTER COURSE STRUCTURE**

<b>Code</b>	<b>Subject</b>	<b>L</b>	<b>T/P/D</b>	<b>C</b>
55025	Principles of programming Languages	4	1	4
55026 55027	OPEN ELECTIVE Operations Research Intellectual Property Rights and Cyber Law	3	1	3
55028	Computer Forensics			
55029	Software Engineering	3	1	3
55030	Microprocessors & Interfacing	3	1	3
55031	Operating Systems	4		4
55032	Data Communication & Computer Networks	4		4
55608	Microprocessors & interfacing Lab	-	3	2
55609	Computer Networks & Operating Systems Lab	-	3	2
	<b>Total</b>	<b>21</b>	<b>11</b>	<b>25</b>

**III YEAR II SEMESTER COURSE STRUCTURE**

<b>Code</b>	<b>Subject</b>	<b>L</b>	<b>T/P/D</b>	<b>C</b>
56028	Object Oriented Analysis and Design	4	-	4
56029	VLSI Design	3	1	3
56030	Network Security	3	1	3
56031	Compiler Design	4	1	4
56023	Managerial Economics & Financial Analysis	4	1	4
56032	Web Technologies	3	1	3
56609	Advanced English Communication Skills Lab	-	3	2
56610	Web Technologies & Compiler Design Lab	-	3	2
	<b>Total</b>	<b>21</b>	<b>11</b>	<b>25</b>

**IV YEAR I SEMESTER COURSE STRUCTURE**

Code	Subject	L	T/P/D	C
57046	Linux Programming	4	1	4
57047	Software Testing Methodologies	4	1	4
57048	Data Warehousing and Data Mining	4	-	4
57049	Computer Graphics	3	1	3
57050 57051 57052 57053	<b>ELECTIVE-I</b> Advanced Computer Architecture Cloud Computing Distributed Computing Mobile Computing	3	1	3
57054 57055 57056 57057	<b>ELECTIVE-II</b> Design Patterns Machine Learning Soft Computing Information Retrieval Systems	3	1	3
57609	Linux Programming and Data Mining Lab		3	2
57610	Case Tools & Software Testing Lab		3	2
	<b>Total</b>	<b>21</b>	<b>11</b>	<b>25</b>

**IV YEAR II SEMESTER COURSE STRUCTURE**

Code	Subject	L	T/P/D	C
58007	Management Science	3	-	3
58035 58036 58037 58038	<b>ELECTIVE-III</b> Web Services Semantic Web & Social Networks Scripting Languages Multimedia & Rich Internet Applications	3	1	3
58039 58040 58041 58042	<b>ELECTIVE-IV</b> Adhoc & Sensors Networks Storage Area Networks Database Security Embedded Systems	3	1	3
58617	Industry Oriented Mini Project	-	-	2
58618	Seminar		6	2
58619	Project Work		15	10
58620	Comprehensive Viva		-	2
	<b>Total</b>	<b>9</b>	<b>23</b>	<b>25</b>

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

**T-Tutorial      P - Practical      D – Drawing      L - Theory      C - Credits**