

Jawaharlal Nehru Technological University
Hyderabad

Computer Science and Engineering

I Year B.Tech.
Course Structure

I Year				
Sub.code	Subject	T	P	C
1.	English	2	-	4
2.	Mathematics – I	3+1*	-	6
3.	Mathematical Methods	3+1*	-	6
4.	Applied Physics	2+1*	-	4
5.	C Programming and Data Structures	3+1*	-	6
6.	Basic Electrical Engineering	3+1*	-	6
7.	Electronic Devices and Circuits	3+1*	-	6
8.	Engineering Drawing Practice Lab	-	3	2
9.	Computer Programming Lab	-	3	4
10.	Electrical and Electronics Lab	-	3	4
11.	English Language communication skills Lab	-	3	4
12.	IT Work-Shop	-	3	4
	Total	25	15	56

* Tutorial

Note: All end Examinations (theory and Practical) are of three hours duration.

Jawaharlal Nehru Technological University
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Computer Science and Engineering

II Year B.Tech

I Semester

Course Structure

Sub. Code	Subject	T	P	C
1.	Probability & Statistics	4	-	4
2.	Mathematical Foundations of Computer Science	4	-	4
3.	Advanced Data Structures	4	-	4
4.	Digital Logic Design	4	-	4
5.	Computer Organization	4	-	4
6.	Data Base Management Systems	4	-	4
7.	Advanced Data Structures (C++) Lab	-	3	2
8.	Data Base Management Systems Lab.	-	3	2
	Total	24	6	28

Note: All end Examinations (theory and Practical) are of three hours duration.

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Computer Science and Engineering
II Year B.Tech **II Semester**
Course Structure

Sub.code	Subject	T	P	C
1.	Software Engineering	4	-	4
2.	Design and Analysis of Algorithms	4	-	4
3.	Environmental Science	4	-	4
4.	Principles of Communications	4	-	4
5.	Micro Processors and Interfacing	4	-	4
6.	OOPS through Java	4	-	4
7.	Java Lab	-	3	2
8.	Micro Processors Lab	-	3	2
	Total	24	6	28

Note: All end Examinations (theory and Practical) are of three hours duration.

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Computer Science and Engineering

III Year B.Tech

I Semester

Course Structure

Sub.code	Subject	T	P	C
1.	Formal Languages and Automata Theory	4	-	4
2.	Object Oriented Analysis and Design	4	-	4
3.	Managerial Economics and Financial Analysis	4	-	4
4.	Operating Systems	4	-	4
5.	Computer Networks	4	-	4
6.	Principles of Programming Languages	4	-	4
7.	UML Lab	-	3	2
8.	Computer Networks and OS Lab	-	3	2
	Total	24	6	28

Note: All end Examinations (theory and Practical) are of three hours duration.

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Computer Science and Engineering
III Year B.Tech II Semester
Course Structure

Sub.code	Subject	T	P	C
1.	Computer Graphics	4	-	4
2.	Compiler Design	4	-	4
3.	UNIX Programming	4	-	4
4.	Information Security	4	-	4
5.	Neural Networks	4	-	4
6.	Software Testing Methodologies	4	-	4
7.	Information Security Lab	-	3	2
8.	UNIX Programming and Compiler Design Lab.	-	3	2
	Total	24	6	28

Note: All end Examinations (theory and Practical) are of three hours duration.

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Computer Science and Engineering
IV Year B.Tech **ISemester**
Course Structure

Sub.code	Subject	T	P	C
1.	Embedded Systems	4	-	4
2.	Web Technologies	4	-	4
3.	Data Warehousing and Mining	4	-	4
4.	Software Project Management	4	-	4
5.	Elective-I:	4	-	4
	1. Artificial Intelligence			
	2. Mobile Computing			
	3. Multimedia and Application Development			
6.	Elective-II:	4	-	4
	1. Advanced Computer Architecture			
	2. Client server Computing			
	3. Network Management Systems			
7.	Embedded Systems Lab	-	3	2
8.	Web Technologies Lab	-	3	2
	Total	24	6	28

Note: All end Examinations (theory and Practical) are of three hours duration.

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Computer Science and Engineering

IV Year B.Tech

II Semester

Course Structure

Sub.code	Subject	T	P	C
1.	Management Science	4	-	4
2.	Elective III:	4	-	4
	1. Image Processing			
	2. E-Commerce			
	3. Distributed Databases			
3.	Elective – IV	4	-	4
	1. Virtual Reality			
	2. Human Computer Interface			
	3. Advanced Computing Concepts			
4.	Industrial Oriented Mini Project	--	-	2
5.	Seminar	-	-	2
6.	Project	-	-	12
	Total	12	-	28

Note: All end Examinations (theory and Practical) are of three hours duration.