

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**  
**HYDERABAD**

**INFORMATION TECHNOLOGY**

**I Year B.Tech.**

**Course Structure**

<b>I Year</b>				
<b>Sub.code</b>	<b>Subject</b>	<b>T</b>	<b>P</b>	<b>C</b>
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**  
**HYDERABAD.**

**INFORMATION TECHNOLOGY**

**II Year B.Tech.**

**I-Semester**

**Course Structure**

<b>Sub.code</b>	<b>Subject</b>	<b>T</b>	<b>P</b>	<b>C</b>
1.	Probability & Statistics	4	-	4
2.	Mathematical Foundations of Computer Science	4	-	4
3.	Advanced Data Structures and Algorithms	4	-	4
4.	Digital Logic Design	4	-	4
5.	Computer Organization	4	-	4
6.	Data Base Management Systems	4	-	4
7.	Advanced Data Structures and Algorithms (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.

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**  
**HYDERABAD.**

**INFORMATION TECHNOLOGY**

**II Year B.Tech.**

**II-Semester**

**Course Structure**

<b>Sub.code</b>	<b>Subject</b>	<b>T</b>	<b>P</b>	<b>C</b>
1.	OOPS Through Java	4	-	4
2.	Computer Graphics	4	-	4
3.	Principles of Communications	4	-	4
4.	Micro-Processors and Interfacing	4	-	4
5.	Environmental Science	4	-	4
6.	Software Engineering	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.

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**  
**HYDERABAD.**

**INFORMATION TECHNOLOGY**

**III Year B.Tech.**

**Course Structure**

**I-Semester**

<b>Sub.code</b>	<b>Subject</b>	<b>T</b>	<b>P</b>	<b>C</b>
1.	Automata and Compiler Design	4	-	4
2.	Computer Networks	4	-	4
3.	Web Technologies	4	-	4
4.	Operating Systems	4	-	4
5.	Object Oriented Analysis and Design	4	-	4
6.	Managerial Economics and Financial Analysis	4	-	4
7.	UML 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.

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**  
**HYDERABAD**

**INFORMATION TECHNOLOGY**

**III Year B.Tech.**

**II-Semester**

**Course Structure**

<b>Sub.code</b>	<b>Subject</b>	<b>T</b>	<b>P</b>	<b>C</b>
1.	Human Computer Interaction	4	-	4
2.	Software Testing Methodologies	4	-	4
3.	E-Commerce	4	-	4
4.	Middleware Technologies	4	-	4
5.	Data warehousing and Mining	4	-	4
6.	UNIX Programming	4	-	4
7.	Middleware Technologies Lab	-	3	2
8.	OS and UNIX Programming Lab.	-	3	2
	Total	24	6	28

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

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**  
**HYDERABAD**

**INFORMATION TECHNOLOGY**

**IV Year B.Tech.**

**I-Semester**

**Course Structure**

<b>Sub.code</b>	<b>Subject</b>	<b>T</b>	<b>P</b>	<b>C</b>
1.	Multimedia and Application Development	4	-	4
2.	Embedded Systems	4	-	4
3.	Software Project Management	4	-	4
4.	Mobile Computing	4	-	4
5.	Elective-I:	4	-	4
	1. Information Retrieval Systems			
	2. Information Security			
	3. Virtual Reality			
6.	Elective-II:	4	-	4
	1. Distributed data bases			
	2. Advanced computing concepts			
	3. Image Processing			
7.	Embedded Systems Lab	-	3	2
8.	Multimedia Application Development Lab	-	3	2
	Total	24	6	28

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

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**  
**HYDERABAD.**

**INFORMATION TECHNOLOGY**

**IV Year B.Tech.**

**II-Semester**

**Course Structure**

<b>Sub.code</b>	<b>Subject</b>	<b>T</b>	<b>P</b>	<b>C</b>
1.	Management Science	4	-	4
2.	Elective III:	4	-	4
	1. Multimedia Databases			
	2. Network Management Systems			
	3. Biometrics			
3.	Elective – IV	4	-	4
	1. Bio-informatics			
	2. Design Patterns			
	3. Pattern Recognition			
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.