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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 ELECTRONICS AND COMPUTER ENGINEERING

#### I YEAR

Code	Subject	L	T/P/D	Credits
	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
	<b>Total</b>	<b>19</b>	<b>16</b>	<b>56</b>

#### II YEAR I SEMESTER

Code	Subject	L	T/P/D	C
	Mathematics – III	4	-	4
	Electronic Devices & Circuits	4	-	4
	Fundamentals of Electrical Engineering	4	-	4
	Java Programming	4	-	4
	Switching Theory and Logic Design	4	-	4
	Data Structures	4	-	4
	Electronic Devices and Circuits Lab	-	3	2
	Data Structures Lab	-	3	2
	<b>Total</b>	<b>24</b>	<b>6</b>	<b>28</b>

#### II YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Environmental Studies	4	-	4
	Electronic Circuit Analysis	4	-	4
	Computer Organization	4	-	4
	Web Technologies	4	-	4
	Structured Digital System Design	4	-	4
	Operating Systems	4	-	4
	Web Technologies Lab	-	3	2
	Electronic Circuit Analysis Lab	-	3	2
	<b>Total</b>	<b>24</b>	<b>6</b>	<b>28</b>

#### III YEAR I SEMESTER

Code	Subject	L	T/P/D	C
	Managerial Economics and Financial Analysis	4	-	4
	Data Base Management Systems	4	-	4
	Linear and Digital IC Applications	4	-	4
	Principles of communications	4	-	4
	Software Engineering	4	-	4
	Design & Analysis of Algorithms	4	-	4
	Linear and Digital IC Applications Lab	-	3	2
	Software Engineering Lab	-	3	2
	<b>Total</b>	<b>24</b>	<b>6</b>	<b>28</b>

## III YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Management Science	4	-	4
	Microprocessors and Microcontrollers	4	-	4
	<b>Open Elective</b> Human Values and Professional Ethics Intellectual Property Rights Disaster Management	4	-	4
	Compiler Design	4	-	4
	Data Communications	4	-	4
	Multimedia Technologies	4	-	4
	Microprocessors and Microcontroller Lab	-	3	2
	Advanced Communication Skills Lab	-	3	2
	<b>Total</b>	<b>24</b>	<b>6</b>	<b>28</b>

## IV YEAR I SEMESTER

Code	Subject	L	T/P/D	C
	VLSI Design	4	-	4
	Computer Networks	4	-	4
	Embedded Systems	4	-	4
	Linux Programming	4	-	4
	<b>Elective – I</b> Cellular & Mobile Communications Artificial Intelligence Computer Graphics	4	-	4
	<b>Elective – II</b> Digital Image Processing Cloud Computing Data Warehousing and Data Mining	4	-	4
	Computer Networks Lab	-	3	2
	Linux Programming Lab	-	3	2
	<b>Total</b>	<b>24</b>	<b>6</b>	<b>28</b>

## IV YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	<b>Elective – III</b> Information Systems Telecommunications Switching Systems Database Security	4	-	4
	<b>Elective – IV</b> Optical Communications Wireless Sensor Networks Real Time Operating Systems	4	-	4
	Network Security	4	-	4
	Industry Oriented Mini Project	-	-	2
	Seminar	-	6	2
	Project Work	-	15	10
	Comprehensive Viva	-	-	2
	<b>Total</b>	<b>12</b>	<b>21</b>	<b>28</b>

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

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