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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 INSTRUMENTATION 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
	<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
	Fundamentals of Electrical Engineering	4	-	4
	Electronic Devices and Circuits	4	-	4
	Signals and Systems	4	-	4
	Switching Theory and Logic Design	4	-	4
	Transduction of Physical Variables	4	-	4
	Electronic Devices and Circuits Lab	-	3	2
	Electrical Engineering 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
	Principle of Communications	4	-	4
	Electronic Circuit Analysis	4	-	4
	Structured Digital System Design	4	-	4
	Transducers and Instrumentation	4	-	4
	Control Systems	4	-	4
	Electronic Circuit Analysis Lab	-	3	2
	Instrumentation Lab - I	-	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
	Linear IC Applications	4	-	4
	Pulse and Digital Circuits	4	-	4
	Signal Conditioning Circuits	4	-	4
	Electronic Instrumentation	4	-	3
	Virtual Instrumentation	4	-	4
	Linear IC Applications lab	-	3	2
	Instrumentation Lab - II	-	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
	<b>Open Elective</b>	4	-	4
	Disaster Management			
	Human Values & Professional Ethics			
	Intellectual Property Rights			
	Microprocessors & Computer Organization	4	-	4
	Digital Signal Processing	4	-	4
	Process Control Instrumentation	4	-	4
	Object Oriented Programming Structures Through JAVA	4	-	4
	Process Control Instrumentation 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
	Analytical Instrumentation	4	-	4
	Embedded Systems	4	-	4
	VLSI Design	4	-	4
	PC Based Instrumentation	4	-	4
	<b>Elective – I</b>	4	-	4
	Telemetry and Telecontrol			
	Optoelectronics & Laser Instrumentation			
	Robotics and Automation			
	<b>Elective – II</b>	4	-	4
	Computer Networks			
	Digital Control Systems			
	Biomedical Instrumentation			
	Embedded Systems Lab	-	3	2
	Analytical Instrumentation 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>	4	-	4
	Instrumentation Practice in Industries			
	MEMS Applications			
	SCADA & DCS			
	<b>Elective – IV</b>	4	-	4
	Power Plant Instrumentation			
	Digital Image Processing			
	Neural Networks & Fuzzy Logic			
	Reliability Engineering	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 – Credit**