

VII SEMESTER

SCHEME OF TEACHING AND EXAMINATION  
B.E., INSTRUMENTATION TECHNOLOGY

Sl. No	Subject Code	Title of the Subject	Teaching Dept.	Hours/week		Examination			
				Theory	Practical	Duration (Hrs)	Marks		
							IA	External Marks	Total
1	10IT71	VLSI Design	IT	04	-	03	25	100	125
2	10IT72	DSP Architecture	IT	04	-	03	25	100	125
3	10IT73	Robotics and control	IT	04	-	03	25	100	125
4	10IT74	Automation in Process Control	IT	04	-	03	25	100	125
5	10IT75x	Elective-2 (Group-B)	IT	04	-	03	25	100	125
6	10IT76x	Elective-3 (Group-C)	IT	04	-	03	25	100	125
7	10ITL77	DSP Lab	IT	-	03	03	25	50	75
8	10ITL78	Process Control Lab	IT	-	03	03	25	50	75
<b>Total</b>				<b>24</b>	<b>06</b>	<b>24</b>	<b>200</b>	<b>700</b>	<b>900</b>

Electives-2 (Group- B)			Electives-3 (Group- C)		
Sl. No	Subject Code	Title of the Subject	Sl. No	Subject Code	Title of the Subject
1	10IT751	ARM Processor	1	10IT761	Embedded System & RTOS
2	10IT752	Aircraft Instrumentation	2	10IT762	Distributed Sensor Network

3	10IT753	System Modeling	3	10IT763	Hardware-software co design
4	10IT754	Medical Imaging Systems	4	10MS769	Micro and Smart Systems Technology

VIII SEMESTER

Scheme of Teaching and Examination  
B.E., Instrumentation Technology

Sl. No	Subject Code	Title of the Subject	Teaching Dept.	Hours/week		Examination Scheme			
				Theory	Practical	Duration (Hrs)	Marks		
							IA	Marks	Total
1	10IT81	Lasers & Opticals Instrumentation	IT	04	-	03	25	100	125
2	10IT82	Neural Networks & Fuzzy Logic	IT	04	-	03	25	100	125
3	10IT83x	Elective-4 (Group-D)	IT	04	-	03	25	100	125
4	10IT84x	Elective-5 (Group-E)	IT	04	-	03	25	100	125
5	10IT85	Project Work	IT	-	06	03	100	100	200
6	10IT86	Seminar	IT	-	03	-	50	-	50
<b>Total</b>				<b>16</b>	<b>09</b>	<b>15</b>	<b>250</b>	<b>500</b>	<b>750</b>

Electives-4 (Group- D)			Electives-5 (Group- E)		
Sl. No	Subject Code	Title of the Subject	Sl. No	Subject Code	Title of the Subject
1	10IT831	Pattern Recognition	1	10IT841	Low Power VLSI Design
2	10IT832	Speech Signal Processing	2	10IT842	Biomedical DSP
3	10IT833	Industrial Instrumentation	3	10IT843	Mobile Communication
4	10IT834	Wavelet Transforms	4	10IT844	Smart Sensors