

Departmental Laboratory Information: -

a) Laboratories:

SN	Name of the Lab	Available Floor Area (Sq.mt.)	Maximum Batch Size	Weekly hours Required as per curricula	No. Of Experiments		Recurring expenditure (allotted per year)		
					Prescribe	Conducted	2003-04	2004-05	2005-06
1	Electronic Instrumentation Lab	114.46	20	04	12	8	2566000	588000	214800
2	Process & Control Instrumentation Lab	116.3	20	04	12	8			
3	Software Based Instrumentation Lab	102.2	20	04	12	8			
4	Biomedical Instrumentation Lab	83.613	20	04	12	8			

b) Major Equipments in the laboratories (Costing >=Rs. 50,000/-)

S N	Equipment		Purchase		Installation Date	Present Condition	
	Name	Make	Date	Cost		Working	Non working
Biomedical Instrumentation Lab							
1.	Digital storage Oscilloscope (TDS 2014) No.co52083, No. co51925		27.2.06	204880	27.2.06	Working	
2.	Hemo Dialysis trainer		28.2.07	215900	28.2.07	Working	
3.	Artificial Respirator		28.2.07	235900	28.2.07	Working	
4.	Microcontroller based Invasive & Non Invasive BP with arterial & venus simulation		28.2.07	170900	28.2.07	Working	
5.	Defibrillator Trainer		28.2.07	199500	28.2.07	Working	
6.	Microcontroller based Defibrillator		30.3.07	160000	30.3.07	Working	

	tester trainer with dummy patient.						
7.	Foetal Monitoring system trainer with dummy patient.		30.3.07	129000	30.3.07	Working	
8.	Microcontroller based advance external and Internal pacemaker trainer with dummy patient.		30.3.07	149000	30.3.07	Working	
9.	Microcontroller based Universal Biomedical Instrumentation Amplifier trainer transducers with Insulation.	Newtech	30.3.07	235000	30.3.07	Working	
10.	Clinical Laboratory Analyzer (with Laptop)		30.3.07	470000	30.3.07	Working	
11.	Pacemaker Analyzer trainer with dummy patient.		30.3.07	95000	30.3.07	Working	
12.	Heart/ Pulse rate meter using 4 different sensors technique and two different processor technique.		30.3.07	70000	30.3.07	Working	
13.	Safety Analyzer trainer		30.3.07	240000	30.3.07	Working	
14.	Microcontroller based Pneumatic measuring device.		30.3.07	158755	30.3.07	Working	
Software based Instrumentation Lab							
15.	Matlab software		23.6.04	868064	23.6.04	Working	
16.	3.0 KVA UPS system (Sr.No.070022k4)		25.2.04	58947	25.2.04	Working	
17.	Lap Tops (Model HP-NX 6320, Sr. No. CNU 71001FK)		23.5.07	59300	23.5.07	Working	
18.	Lab View 7.0		1.8.06	442000	1.8.06	Working	

	Version (50 User)						
Process Instrumentation & Control Lab							
19.	Logic Analyzer 72 channel (L&T Make)	L & T	27.2.93	362835	27.2.93	Working	
20.	Incremental rotary encoder training systems		20.9.05	52312	20.9.05	Working	
21.	Digital Storage Oscilloscope (100hz, 2 channel, sampling rage of 1GS/S on both channel Model TDS -220)	Tektronix		89317		Working	
22.	Up based set Pt Programmer	Anshuman	21.10.03	51931	21.10.03	Working	
23.	Logic Analyzer Model TLA-704 (Portable color monitor)			536593		Working	
24.	Microprocessor based education programmable transducer trainer model TPIT	Anshuman	22.5.97	87000	22.5.97	Working	
25.	Microprocessor based education process control trainer without printer Make Anshuman	Anshuman	22.5.97	59664	22.5.97	Working	
26.	PI,PD and PID control trainer Model ANSH-PCT-VII Make Anshuman	Anshuman	15.6.99	187750	15.6.99	Working	
27.	Ultrasonic Flow Detector. (Model-4400 Analog with Accessories)			124500	17.11.2003	Working	
28.	Control Valve Characteristics Trainer 9Model-CVCT)		9.2.09	79082	9.2.09	Working	
29.	UV-VIS Spectro Photometer	Systronics	23.3.09	372000	23.3.09		Non-Working
30.	PC based closed		4.4.06	102853	4.4.06	Working	

	loop pressure control system						
31.	PC based Ratio and cascade control system		4.4.06	258712	4.4.06	Working	
32.	Hydraulic control system Trainer		4.4.06	186928	4.4.06	Working	
33.	Pneumatic system trainer		4.4.06	75425	4.4.06	Working	
34.	Study of Motorized control valve (Servo regulator)		4.4.06	53961	4.4.06	Working	
35.	PLC Trainer		9.1.08	253000	9.1.08	Working	
36.	ELVIS(NI)Bandl e		19.2.08	254800	19.2.08	Working	
37.	DCS (ABB/Benix)		10.2.11	2386000	10.2.11	Working	
	Total Cost			9736809			

c) Financial Statement:

Year	Total Budget		Budget For Major Equipment		Budget For Minor Equipment		Budget For Operation & Maintenance	
	Allocated	Spent	Allocated	Spent	Allocated	Spent	Allocated	Spent
2003-04	2566000	2565061	2004000	2003951	532000	531110	30000	29900
2004-05	588000	575890	363000	355970	200000	198000	25000	21920
2005-06	214800	212400	150000	149000	50800	49700	14000	13700
2006-07	3271900	3271200	2528955	2528955	730945	730945	12000	11300
2007-08	13500	6000	---	---	---	---	13500	6000
2008-09	300000	133282	226500	79082	43000	43000	30500	11200
2009-10	1500000	583047	868000	---	600000	573047	32000	10000
2010-11	2480960	2479460	2386000	2386000	85960	85960	9000	7500
2011-12	188139	182139	---	---	160139	160139	28000	22000