3. Laboratories:

a) Consolidated details of existing laboratories

S.No	Name of the course* with Branch	Name of the Laboratory	Equipment	Cost
1.	B.Tech- ECE	Electronic Devices and Cir0063uits lab	Function generators (15 number)	88,500/-
			Regular power supply (15 number)	70,500/-
			Decade resistance box	22,500/-
			Decade inductance box	28,500/-
			Digital millimeters	21,000/-
			Bread board trainer kits	55,500/-
			Digital LCR meter	37,500/-
			Oscilloscopes	2,94,400/-
		Analog Communication System lab	Amplitude modulation and demodulation	10,000/-
			Frequency modulation and demodulation	15,000/-
			Pre emphasis and de emphasis	7,500/-
			Characteristics of mixer	7,500/-
			PAM and De modulation	5,700/-
			PW and PPM and de modulation	7,900/-
			PCM and demodulation	35,000/-
			Probes	5,000/-
			Connecting pins	2,000/-
		Electronic Circuit Analysis Lab	Multisim V10	170,000/-
		Digital Communication Lab	PLL	10,000/-
			Clippers and clampers	10,000/-
			FSK	15,000/-
			PSK	20,000/-
			DPSK	35,000/-
			Sampling Theorem	15,000/-
			Delta modulation	30,000/-

			Patch cards	1,000/-
		IC Applications Lab	ASL Pro kits	35,870/-
			Digilent Basis-2 Kits	24,780/-
			Testers	150,000/-
		MPMC Lab	8086 kits	70,000/-
			8051	70,000/-
			8259	50,000/-
			8279	50,000/-
			8255	10,000/-
			8251	15,000/-
			ADC kits	10,000/-
			DAC kits	10,000/-
			Traffic light interface	10,000/-
			Elevator interface	10,000/-
		DSP Lab	DSP kits	250,000/-
		Embedded System and VLSI lab	MSP kits	56,000/-
			Wifi kits	20,000/-
			XILINX V14.4	1,05,000/-
		Microwave and Optical Communication lab	KLYSTRON bench setup	200,000/-
			Laser kits	2,50,000/-
			LED kits	150,000/-
			GUN bench setup	180,000/-
			Digital links	80,000/-
			MHD coupler	50,000/-
			Magic tee	18,000/-
			Circulator	30,000/-
2.	M.Tech- Embedded Systems	Micro controller and interfacing lab	Microcontroller kits	67,500/-
		RTOS and FPGA lab	XILINX V14.4	1,05,000/-
3.	M.Tech- VLSI System Design	Digital IC design Lab	FPGA and CPLD kits	2,00,000/-
		Mixed Signals Lab	Mentor Graphics	105,000/-
4.	B.Tech- Humanities & Sciences	IT Workshop	Desktops Dell Core2 Duo 1GB RAM,160GB SATA	6,55,000/-
5.	B.Tech- Humanities &	Engineering Workshop	Bench vices, Iron jackplanes, Handsaw, Try squares, Ball peen Hammer, Chisels, Woodrasp file, Fitting Benchvices, punches, Steel rules, Nylon mallet, scribes, soldering gun, noseplair, welding	145,797/-

				trades, Fase shield, handgloveshatchet stake, screw driver, testers, Arc welding Metal sheet, Electrical Wiring, Tin Smithy , Carpentry, Bench Vice, Files, Hacksaw frames, Calipers, Micro meters, V.Block, Pipe Wrinches, Anvil, Swage block, Leg Vice, etc.	
			Engineering Physics Lab	Spectrometer, Grating, Prism, Mercury vapour lamp, Sodium vapour lamp, Traveling Microscope, Wedge arrangement, Newton rings setup, Stewart	125,000/-
			Engineering Chemistry Lab	Glass ware:Pipettes, Burettes, volumetric flasks, Beakers, Standard flasks, Measuring jars, Boiling Test tubes, reagent bottles, (Borosil), Analytical balance (keroy) (15 Nos) CalOlimeter, Bomb Calorimeter Redwood viscometer 1&2 Conductometer/ Conductivity bridge,Wash bottles, test tube stands, burette stands,Gas cylinders with Bunsen burners,	216,710/-

			Chemicals: Hydrochloric acid, sodium hydroxide, EDTA, EBT indicator, fast sulfur black-f, urea, benzoic acid, methanol, Mhor's salt, copper sulphate, magnesium sulphate, ammonia, ammonium sulphate, calcium sulphate etc.,	
	B.Tech- Humanities & Sciences	ELCS and AELCS Lab	Walden advancing learning software	35,000/-
6.	M.Tech- Electrical Power Systems	Power system Lab	IDMT over current	45000/-
			-ve Sequence relay	48500/-
			Over voltage relay	83,000/-
			Differential relay	133,000/-
			Fault analysis	188,000/-
			Three winding transformer	75,000/-
			Identical transformer	22500/-
			3-Phase Variac	25000/-
		Simulation Lab	MAT Lab	250000/-
7.	B.Tech-EEE	FM & HM Lab	Single stage centrifugal pump	55750/-
			Multi stage centrifugal pump	65,000/-
			Reciprocating pump	52760/-
			Venturimeter and Orifice meter	43850/-
			Friction factor	39000/-
			Turbine flow meter	48000/-
			Impact jet meter	39500/-
			Pelton whell turbine	129000/-
		Electrical Machines Lab	35Amp Step down transformer	40,000/-
			Sockets	7500/-
			35Amp Step down transformer	40,000/-
			DC power supply	25000/-
			Inductor	15000/-

				Single Phase variac	16800/-
		Electrical Measurements lab	Kelvin double bridge	10000/-
				Bridges	10000/-
				LVDT	12200/-
				Strain gauge transducer	10500/-
				DC potentiometer	18400/-
				Single phase energy meter Rheostats	10000/-
				3-Phase inductive load	45000/-
		Power electronics Lab	Semi-Conductor device	12,000/-
				1-phase AC voltage controller	8,000/-
				Jones Chopper	16000/-
				Parallel Invertor	14000/-
				Cyclo convertor	34000/-
				Bridge convertor	25000/-
				Series convertor	13000/-
		Control Systems Lab	Linear System Simulator	11000/-
				Syncro Transmitter	22000/-
				Effect of P, PD,PID controller	10000/-
				Compensation Design	22000/-
				Temperature Control System	21000/-
				Magnetic Amplifier	17000/-
				AC & DC Servo motor	35000/-
				Mirrors	40000/-
		Electrical Machines Lab	Meters	80000/-
				DC Compound Generator & Motor	82500/-
				DC Series Generator	56000/-
				Identical DC machines	81000/-
				DC Voltmeters	25000/-
				Single And Three Phase auto transformer	45000/-

			Salient pole alternator	82500/-
			Auto synchronous motor	59000/-
			Series DC machine	82000/-
			DC compound motors	50000/-
			Starters	25000/-
			1-Phase scott transformer	12000/-
			1-Phase CSCR motor	20000/-
			3-Phase induction motor	30000/-
			3-Phase Alternator	
		Power system & Simulation Lab	IDMT over current	45000/-
			-ve Sequence relay	48500/-
			Over voltage relay	83,000/-
			Differential relay	133,000/-
			Fault analysis	188,000/-
			Three winding transformer	75,000/-
			Identical transformer	22500/-
			3-Phase Variac	25000/-
8.	B.Tech-CSE	DBMS Lab	AMD, 500HDD, 4GB RAM, & Oracle 10g	1050,000/-
		JAVA Lab	AMD, 500HDD, 4GB RAM, & JDk 1.6	1300,000/-
		CNS & CDS Lab	INTEL CORE 2 DUO, 500HDD, 1GB RAM, & TC	1500,000/-
		CD & DS Lab	INTEL CORE 2 DUO, 500HDD, 1GB RAM, & TC, TC++	1500,000/-
		OS Lab	INTEL CORE 2 DUO, 500HDD, 1GB RAM, & Fedora TC	2200,000/-
		WT & DM Lab	AMD, 500HDD, 4GB RAM, & Tomcat & VECA	1500,000/-
		STM & OOAD	AMD, 500HDD, 4GB RAM, & Rational rose, QTP load runner	1500,000/-

		MAD Lab	AMD, 500HDD, 4GB RAM, & Android studio7	1500,000/-