

Chemical Engineering Department

Program me	Depart ment	Cour se	Lev el	Yearly budget – Equipm ents (Rs.)	Yearly budget – Consum ables (Rs.)	Name of the Laboratory	Lab / Major Equipment	Investment till date (Rs.)	Buildi ng name	Buildin g number
Engineeri ng & Technolo gy	Chemic al enginee ring	Chem ical engin eering	UG	200000	NIL	Chemical Engineering Design Lab	CFD Expert Lite for 15 Users	1132151.42	B	B-002
				200000	NIL	Process Instrumentation and Control Lab	Temperature control Trainer	1173746.00	B	B-003
				70000	NIL	Fluid Flow and Heat Transfer Lab	1. Plate Type Heat Exchanger 2. Heat Transfer In Agitated Vessel	774362.15	B	B-004
				200000	NIL	Mechanical Operation Lab	Leaf filter	771575.00	B	B-005
				130000	35000	Mass Transfer –I Lab	Fluidized bed dryer	553146.00	B	B-006A
				80000	35000	Mass Transfer –II Lab	Solid Liquid Extraction (Packed Bed)	798745.10	B	B-006B

				NIL	150000	Chemical Reaction Engineering Lab	1. Gas Chromatography 2. Ultraviolet spectrophotometer (Compaq monitor keyboard mouse weighing balance	1815674.86	A	A-006A
				200000	NIL	Chemical Engineering Computer Lab	Aspen One Engg V 7.2	3659186.03	A	A-008

Dean School of Chemical Engineering

Civil Engineering Department

Programme	Department	Course	Level	Yearly budget – Equipments (Rs.)	Yearly budget – Consumables (Rs.)	Name of the Laboratory	Lab / Major Equipment	Investment till date (Rs.)	Building name	Building number
Engineering & Technology	Civil Engineering	Civil Engineering	UG	90000	5000	Geotechnical Engineering	1.Direct Shear Apparatus Motorized 2.Triaxial Shear test apparatus 3.Consolidation Test Apparatus	1252380	H	HBM 02
				280000	35000	Testing of Materials	1.Compression Testing Machine	1303650	H	HBM 03
				20000	20000	Surveying	1.Total Station 2. Lynx Lmt-1 Micro-Optic Theodolite	1240848	H	HBM 04
				20000	7000	Fluid Mechanics	1.Wind Tunnel with Smoke Generator	657225.21	H	HBM 05
				195000	3000	Transportation Engineering	1.Marshall Apparatus Single Speed Digital 2Automatic Compactor	960130.17	H	HBM 06
				350000	25000	Environmental	1.Digital Spectrophotometer	669533.14	H	HBM 07

						Engineering				
Engine ering & Technol ogy	Civil Engine ering	Civil Engine ering	UG	45000	5000	Computer Lab	1.Academic Select for Campus (5 Year Offering) 500 Students Licence	3145638	H	HBM 13

Dean School of Mechanical & Civil Engineering

Computer Engineering Department

Programme	Department	Course	Level	Yearly budget – Equipments (Rs.)	Yearly budget – Consumables (Rs.)	Name of the Laboratory	Lab / Major Equipment	Investment till date (Rs.)	Building name	Building number
Engineering & Technology	Computer Engineering	Computer Engineering	PG	200000	150000	Network Research Laboratory	AIR-CAP 802.11 Algn Ctrlr Based AP Int Ant N Reg Domain	1209600	H	H-305
						Network Research Laboratory	USRP N 210 Kit (USPR N 210 2 14.50 % 51 0.25.50 SMP-Bulk Head R Cable Ethernet Cable Power) Ettus Research	407232	H	H-305
						Network Research Laboratory	Octo Clock 8 Channel Clock Distribution with integrated GPSDO (10 Mhz Ref & PPS)	166845	H	H-305

Dean, School of Computer Engineering and Technology

Design Engineering Department

Programme	Department	Course	Level	Yearly budget – Equipments (Rs.)	Yearly budget – Consumables (Rs.)	Name of the Laboratory	Lab / Major Equipment	Investment till date (Rs.)	Building name	Building number
Engineering & Technology	Design	Design	UG	1500000	150000	Design Studio	Prototyping Machine Accucraft Include 2kg ABS Material	379157.66	H	H001
						Design Studio	Smart Makers	3237908	H	H002
						Design Studio	Accucraft I 250 + single extruder Rapid Prototyping Machine Platform :300x250x200	3237908	H	H002

Dean, School of Design

Electronics & Telecommunication Engineering Department

Programme	Department	Course	Level	Yearly budget – Equipments (Rs.)	Yearly budget – Consumables (Rs.)	Name of the Laboratory	Lab / Major Equipment	Investment till date (Rs.)	Building name	Building number
Engineering & Technology	E&TC	E&TC	UG	350000	18750	Signal Processing	1. RACK 170 D-Link I/O with TR BOX D Link 24 port patch channel Intel 410 switch	3841794	A	A103
							2. MATLAB (25 User)			
							3. VisSim Software			
							4. IBM X3400 Server 2.33 GHz 4 GB RAM 146 GB HDD			
							5. Code Composer Studio Floating Lic. for 5 users			
Engineering & Technology	E&TC	E&TC	UG	350000	18750	Communication	1. Digital Storage Oscilloscope	4596207	A	A103
							2. Mega Zoom Oscilloscope – 20 MHz			
							3. Digital Communication Trainer Kits – Set 1			
							4. Spectrum Analyzer – 1.5 GHz			

							5. Microwave Trainer Set – 2			
							6. DSO 150MHz 250MSa/S			
							7. Antenna Trainer Kit – 800 MHz (SIGNET S45)			
							8. Advanced Communication Trainer Kits			
							9. Audio Video Trainer Kits			
							10. Mobile communication trainer kit (Set1- 6kits)			
							11. HFSS SW(25 Users)			
							12. Antenna Training System – 5 MHz -2 GHz			
							13. Wireless Communication Setup			
							14. Digital Comm. Trainer Kits (Set-5(11Kits)			
Engineering & Technology	E&TC	E&TC	UG	350000	18750	Advanced Communication	1. Optical Fiber Trainer Kit (Model 2001)	2259205	A	A110
							2. Fiber Optic Trainer for Glass & Plastic Fiber			
							3. Optical Fiber Trainer Kit –			

							Benchmark			
							4. OTDR – Benchmark			
							5. Microwave Test Bench – NV 9004 (Klystron)			
							6. Digital Oscilloscope - 50 MHz			
							7. Spectrum Analyzer - 3 GHz			
Engineering & Technology	E&TC	E&TC	UG	350000	18750	Embedded System	1. 8085 Trainer Kit with SMPS Interfacing Kits EPROM Programmer UV Eraser	3683303	A	A109
							2. Logic Analyzer – 48 Channels EG340			
							3. Lab. Tools 48: Universal EPROM Programmers Updated on 25/11/2010			
							4. KEIL PK 51: C-51 Professional Developers Kit version 7.0 (set-4)			
							5. Educational Practice board for ARM-7LPC2148 along with LCD Keyboard interfacing kit and Workbook on RTOS Basic and ARM basic			
							6. ARM7 & mCOS/II Tutorial Set			

							(27 Tutorials) with Hardware modules (EPB for LPC 2148 ARM 7 with power supply + EPB for ARM 9)			
							7. ARM 9 Educational Practice Board – AT91RM9200 along with Computing System for ARM-Linux and Tutorial Set for Embedded Linux			
							8. Keil MDK-ARM-ED10 (10 User License)			
							9. Projector – Sharp DLPXR-10S 10.1480684			
							11. Educational Practice board- ARM-7			
							12. Educational Practice board- ARM-Cortex M3LPC176			
Engineering & Technology	E&TC	E&TC	UG	350000	18750	Instrumentation & Control	1. Flow Measurement & Control System	7794531	A	A003
							2. Pneumatic & Electro-Pneumatic Trainer			
							3. Programmable Controller – Mitsubishi FX 2N Series			
							4. Digital Signal Controller			

							Development. Board with Peripherals			
							5. Inverted Pendulum System with Executive USR & RT Simulink Interface			
							6. Spectrum Analyzer			
							7. Logic Analyzer			
							8. Industrial Plant Emulator			
							9. Embedded Development Platform - sbRIO			
							10. Compact DAQ System			
							11. MyRIO MyDAQ and Accessories			
							12. Multifunctional I/O boards			
							13. NI ELVIS 2+ For Network Lab			
Engineering & Technology	E&TC	E&TC	UG	350000	18750	System Simulation	1. MATLAB 6.1 (5 User)	2390327	D	D306
							2. VLSI Development Boards			
							3. Digital Trainer Kits			
							4. MultiSim – Ver. 12 (5 User)			
							5. Xilinx Vivado Software -25			

Engine ering & Techn ology	E&TC	E&TC	UG	350000	18750	Project	1. Upgradation of Multisim 2001 to Multisim 10	1682861	A	A107
							2. Upgradation of Ultiboard 2001 to 10			
							3. MultiSim – Ver. 12 (10 User)			

Dean, School of Electrical Engineering

Electronics Engineering Department

Programme	Department	Course	Level	Yearly budget Equipments (Rs.)	Yearly budget – Consumables (Rs.)	Name of the Laboratory	Lab / Major Equipment	Investment till date (Rs.)	Building name	Building number
Engineering & Technology	Electronics Engineering	Electronics Engineering	UG	800000	100000	POWER (PE)	PSIM - 7.05 Software(Network Version)	330000	A	A-013A
							Lab View myRIO kits	505095		
							ELVIS Board II	297700		
						ICA	Complete Robotino Package(2012)	923715.91	A	A-210 A)
							Complete Robotino Package(2013)	582789.19		
						ROBOTICS (RO)	WORD SKILL Mobile Robotics competition collection -2015	163799	D	D-302 A
							WORD SKILL Mobile Robotics competition collection-2016	214788		
							WORD SKILL Mobile Robotics competition collection 2017-	147013		
							Advanced Customized Electro Pneumatic Trainer Kit	114460		

Engineering & Technology	Electronics Engineering	Electronics Engineering	UG			EDC	Multisim V14(10 user)	393750	A	A-201A
						PROJECT	Spectrum Analyzer 1.5GHz Model: DC815TG	157391	A	A-108
						RESEARCH	EMERSON Make UPS 6KVA with 12V 26Ah Batteries	119250	A	D-301B
						VLSI	IBM X-Series X- 3650 Rack Mountable Server	147680	D	D-301A
							OFC Test Equipments TB/MTS 5800 Chassis single port Related equipments	373638		
							Xilinx Vivado system Edition 25	135000		

Dean, School of Electrical Engineering

Information Technology Department

Programme	Department	Course	Level	Yearly budget – Equipments (Rs.)	Yearly budget – Consumables (Rs.)	Name of the Laboratory	Lab / Major Equipment	Investment till date (Rs.)	Building name	Building number
Engineering & Technology	Information Technology	Information Technology	UG	1000000	100000	Engineering Informatics Lab	Cisco Router 1941/K9 and Cisco Switch	450000	A	207 C
						Network Communication Laboratory	QUALNET 5.0.2 SOFTWARE 1USER LICENCE	433125	A	207 D
						Central Infrastructure	IBM SERVER –SYSTEM X 3550 M3 Type 7944 Model ISA M3QC Intel Xeon Processor , 4 MB L2 800 M.Hz 8 GB RAM , Integrated Raid -5 3X300 GB HDD, DVD Writer.	236250	A	207

Dean, School of Computer Engineering and Technology

Mechanical Engineering Department

Programme	Department	Course	Level	Yearly budget – Equipments (Rs.)	Yearly budget – Consumables (Rs.)	Name of the Laboratory	Lab / Major Equipment	Investment till date (Rs.)	Building name	Building number
Engineering & Technology	Mechanical Engineering	Mechanical Engineering	UG	NIL	10000	Internal Combustion Engine	Computerized 4 Cylinder 4 Stroke Petrol Engine (MPFI Wagon - R Engine) with Hydraulic Dynamometer	578363	F	F006
							Computerized VCR Engine Set up 1 Cylinder 4 Stroke Diesel Constant Speed Power 3.5 kw@ 1500 RPM CR 12-18:1 with Eddy Current Dynamometer	536895	F	F006
							Diesel Power Plant - Single Cylinder Four Stroke Diesel Engine Test Rig with AC Alternator	143085	F	F006
							Exhaust Gas Analyzer (HG540) 4 gas Nox sensor RPM measurement kit	292500	F	F006
				400000	NIL	Hydraulics & Pneumatics	PLC Based Hydraulic Trainer with Polyhedron Make Components HYD 05	270000	H	H005

							PLC Based Pneumatic Trainer with JELPC/SHAKTI/DATTA Make Components PNEU 05	174375	H	H005
Engineering & Technology	Mechanical Engineering	Mechanical Engineering	UG	1116683	50000	Metallurgy	Universal Testing Machine	815957	H	H009
							Vickers Hardness Tester with Stand	161980	H	H009
							Torsion Testing Machine & Shear Test Attachment	241905	H	H009
				150000	10000	Metrology & Quality Control	Profile Projector	121500	H	H103
							Tool Makers Microscope with Accessories	106875	H	H103
							Surface Roughness Tester SJ210	134520	H	H103
							Electronic Height Gauge	374060	H	H103
				50000	5000	Refrigeration & Air Conditioning	Air Conditioning Close Loop Trainer	102262.50	H	H102
							Heat Pump Trainer	123750	H	H102
				NIL	NIL	Turbo machinery	Pelton Wheel Turbine Test Rig (1 Kw Capacity With 5 HP Pump)	204831	H	H005
							Francis Turbine Test Rig 1 Kw Capacity with 5 HP Supply Pump	198495	H	H005
							Centrifugal Air Compressor (Blower) Test Rig.	153450	H	H005
Engineering & Technology	Mechanical Engineering	Mechanical Engineering	UG	NIL	NIL	Robotics / Mechatronics	Universal Table. A) Universal Table along with Provision for Position Measurement (Table to be moved in Horizontal Vertical Direction and can also be	123750	H	H103/ D302/ H108

							tilted) using Allen Bradley PLC B) Allen Bradley PLC System with control Panel (A-B PLC Module: Micrologix - 1200 762 - 124 B x B) for above module A. C) Licensed copy Ladder Programming Software RS Logix - 500 along with PC - PLC Programming cable. D) Table Travel: X-200 Y-200 Z-150 $\theta = -45^\circ$ to $+45^\circ$ Load Carrying Capacity - 10 Kg with Ball Lead Screw Minidrill - dia 10 Drill-Vice			
				50000	NIL	CAD /CAM	Plotter 500 Plus A0 size Color Post Script	169225	H	H007/ H008
							Ansys 12.1	420000	H	H007/ H008
							ADCC Infocad Methwork Product (Metlab)	296683	H	H007/ H008
							Cognifront Engineering Mechanical V3.0/ Engineering Graphics	118650	H	H007/ H008
							DELCAM (Computer Software LIC No 143155	410760	H	H007/ H008
							CATIA V6	600000	H	H007/ H008
Engineering	Mechanical	Mechanical	UG	NIL	NIL	Workshop	Lathe machines	282907	F	F001 F002
								1159510		

& Technology	Engineering	Engineering	NIL	NIL			854109		F003
							593031		
						Radial Drill M/C & Accessories	148500		
						Surface Grinding machine (manual operator)	150000		
						Power Press 10Ton	1.21.789		
			230000	49000	Design Studio (Prototyping)	Smart Makers Single Nozzle 220x220x360 Single Nozzle 220x220x370 Dual Nozzle 220x220x360	370000	H	H002
						Accucraft i250 Single Extruder Rapid Prototyping Machine Platform 300x250x200	204500	H	H002
			NIL	NIL	Research & Development Projects	CNC Angular Head Grinding Machine Model Ang 300 x60 CNC with fanuc control & accessories	2298375	F	F004
			NIL	NIL		Temperature Measurement Test Rig (Assembly) (Including Slip Arrangement 10 channel data logger trainer Magnetic stand Brushes Work piece) etc.	188410	F	F004

Dean, School of Mechanical & Civil Engineering