

Facilities Available in the Research Centres

Department of Electronics & Communication Engineering	
1	ARM Processor Boards
2	Audio peripherals
3	Computer systems DELL C2D E7200
4	Computer Systems HP 406 G1 MT
5	Image Daughter cards for 6713 DSP kit
6	Audio Daughter cards for 6713 DSP kit
7	FPGA Virtex II Pro kits
8	Handycam SONY HDR-CX190E
9	Laptop system DELL Inspiron 15R
10	Laptop system HP 15-ac026tx
11	Laptop system DELL Inspiron N3567
12	Laser printer Cannon CBP 3300
13	Laser printer Canon MF 48200
14	T-CAD Synopsis Software – 3 users University Bundle – 3 years TBL
15	T-CAD Synopsis Software – 1+1 user University Bundle – 3 years TBL
16	Matlab Software R2011b with Signal processing & Neural N/W toolbox
17	UPS Systems Cosmic – 5 KVA Offline
18	HP Z-400 workstation system
19	Lab View software – 05 users
20	ARM/FPGA Zed Board ZYNQ7000 Kit

Department of Chemical Engineering	
1	BOD Incubator
2	Laminar Air Flow Chamber
3	Inductively Coupled Plasma Mass Spectrometry [ICPMS]
4	Total Organic Carbon Analyzer [TOCA]
5	Muffle Furnace
6	PH meter
7	Conductivity meter
8	Colorimeter
9	Micro Controlled Turbidity Meter
10	Dissolved Oxygen Meter
11	High Pressure Liquid Chromatography (HPLC)
12	Ultrasonic Water Bath
13	UV – visible spectrophotometer
14	Flame Photometer
15	Photo Bioreactor
16	KBR Press
17	Zeta Sizer
18	Rotary Evaporator
19	Optical microscope
20	Centrifuge orbital shaker
21	Cyclomixer
22	Tissue homogenizer
23	Spot flurometer
24	Cell culture facility
25	Lipid mini extruder
26	Nitrogen Storage Vessel
27	COMSOL 5.3 Multi-physics for process systems with unlimited nodes
28	Fume Hood
29	Hydrothermal reactor (Stainless steel Teflon coated, 100 ml
30	Ice Flaker (Automatic)
31	- 20 ⁰ C Deep Freezer
32	Biological Safety Cabinet

33	CO ₂ Incubator
34	Deep Freezer
35	Spray Drier
36	Ultracentrifuge
37	Fume Hood
38	PH meter
39	Design Expert V9

Department of Electrical & Electronics Engineering	
1	Ultrasonicator
2	Hot Air Oven
3	Electronic Balance with Density Kit
4	Magnetic Stirrer
5	LCR meter with temperature controller
6	Vacuum Oven with UV light controller
7	Emulsifier
8	Digital micro meter

Department of Electronics & Telecommunication Engineering	
1	Computers
2	IE3D Electromagnetic Simulation Tool
3	Microwave Office: Version 20
4	Lab View 2015
5	Up gradation of Lab View 2016

Department of Science - Chemistry	
1	Fourier Transmission Infra-Red Spectrometer
2	Polari meter
3	Rota evaporator
4	FT IR spectrometer
5	XRD
6	HPLC
7	UV spectrometer
8	Photoluminescence
9	Battery testing unit
10	Electrochemical work station
11	Muffle furnace
12	Photo catalytic reactor
13	Atomic absorption spectrophotometer

Department of Science - Physics	
1	Vector Network Analyzer
2	UV-Vis Absorption spectrometer for solid/liquid/powder/thin film
3	LCR meter with accessories
4	Polymer film making Equipment
5	Probe type sonicator
6	Abbey Refractometer to measure refractive index of liquid
7	Weighing Machine
8	Reddy Shock Tube
9	High Temperature Furnace with temperature controller (1400 C)
10	High Temperature Oven with temperature controller (300 C)
11	Glove Box for manipulating battery
12	Keithley Electrochemical Workstation 2450 EC
13	Lab made Solar Simulator to study DSSC
14	Math CAD

Department of Civil Engineering	
1	Cyclic Triaxial test facility
2	Asphalt Rheometer
3	Uniaxial Vibrating Table
4	Universal Testing Machine 50T capacity
5	Static Triaxial test facility
6	Benkel Beem Deflectometer
7	Bump Integrator
8	Long Flume
9	Spectrophotometer
10	Model test and data acquisition system
Software	
11	SAP
12	ETABS
13	FLAC3D
14	Geostudio
15	PFC2D
16	Mx Roads
17	Ms Projects
18	Primavera

Department of Nano Technology	
1	Thermal evaporation system
2	Optical Microscope
3	Scanning Electron Microscopy (SEM)/EDX Analysis
4	Micro-hardness tester
5	Tensile strength testing
6	Thin film thickness measurement system
7	UV-Visible spectrophotometer
8	Source Measure Unit
9	High purity de-ionized water plant
10	Four-point probe measurement
11	Vacuum Ovens
12	DNA electrophoresis
13	Polypropylene chemical hoods
14	MedeA modeling software
15	COMSOL software
16	pSpice software
17	Tanner L-Edit software
18	Origin software

Department of Computer Science	
1	HPXW600 workstation
2	Fujitsu, Celsius R940 Workstation
3	HP Intel Workstation Z800
4	IBM X3100 M5 5457IYA Server
5	HP Procurve access point
6	HP 67305 laptops
7	Portable HP Mini Notebook
8	PDA's
9	HP Desktop PC
10	HP M1213NF Mono Laser Printer
Software	
1	Qualnet 5.0.2. research licensed software
2	iSense Wireless Sensor Network Starter Kit
3	Hyper Ledger Composer for Block Chain Network
4	Virtualization Framework
5	Hadoop

Department of PGDMS	
1	AMOS
2	SPSS
3	Capital Line Software
4	SAP B-1
5	Computer Lab
6	Library

Department of Biotechnology	
1	Hot Air Oven
2	Incubator
3	Schimidzu make Spectro Photometer
4	HPLC
5	Incubator shaker-Remi
6	Fermentor
7	Auto clave
8	Laminar Air flow
9	Cooling centrifuge
10	-20 ⁰ Deep Freezer
11	Computer-10 Nos Make HP PC Intel Core i5, 8GB RAM, 500GB HDD
12	Hot Air Oven
Software	
1	Accelry Discovery Studio 3.5, Biosolve IT- FlexX, Avadis NGS, Bionivid Litmus 2.0, eprime 4.0, CLC Main Workbench 4.9, CLC Genomics Workbench 4.9 e-pep

Department of Mechanical Engineering	
1	Optical Microscopes.
2	Zwick Micro Hardness Testing Machine.
3	Zwick Rockwell Hardness Testing Machine.
4	Zwick Brinell Hardness Testing Machine.
5	Four Stroke 4 Cylinder Diesel Engines with Computer Interface.
6	Corrosion Analysis Potentiometer.
7	Four Stroke Single Cylinder Petrol Engine with Computer Interface.
8	Four Stroke Three Cylinder Petrol Engine with Computer Interface.
9	Composite preparation furnace with stirrer attachment.
10	Latest Analysis Software like ANSYS, CATIA, ANSA etc.
11	Computerized UTM with furnace attachment
12	High temperature wear testing rig
13	Fatigue test rig
14	Auto Spectrometer
15	BISS make UTM with axial fatigue facilities.
16	Lathes, Milling machine, drilling and shaping machines
17	Polishing
18	CNC wire cutting
19	Ultra Sonicator
20	Metallurgical Microscope with Image Analyser
21	Induction and Resistance Furnaces

Department of Electronics & Instrumentation Engineering	
1	RF/DC Planar Magnetron Sputtering Unit
2	Spin coater model 6000F-VP
3	Programmable Function Generator
4	Electronic weighing Machine
5	Cold water circulator Unit
6	Laboratory Electric oven
7	HCL- Intel ®Core ™ 2 DUO PCs
8	6221 AC DC Current Source
9	2182 Nano Voltmeter
10	E Beam Evaporating unit
11	6 ½ digits Multi meter
12	Atomic Force Microscope