

Research Facilities available

| Name of Department | Name of Laboratory | Research Facility | Purpose |
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| Civil Engineering Department | Strength of Material | Universal Testing Machine Hardness Testing Machine | To test various concert properties |
| | Structural Analysis | Diffused light Polarioscope | To find out stresses in acrylic material |
| | Concrete Tech. | Non Destructive Test (Ultrasonic Pulse Velocity) Compression Testing Machine Workability Measuring Apparatus | To Find out various strengths of concrete |
| | Geotechnical Engg. | Direct Shear Test Standard Proctor Test | To study the behavior of different types of soil |
| | Transportation Engg | Ductility Apparatus | To check the ductility |
| | Fluid Mechanics | Tilting Flume | To know the discharge coefficient in channel |
| | Environmental Engg | BOD Incubator Rotary Shaker with Incubation Centrifuge COD Apparatus KJELDAL Apparatus High Volume Air Sampler Stack Monitoring Kit Sound Meter Jar Test Apparatus Electronic Balance (0.1 g) Turbidimeter (0-4000 NTU) | To check the potability of water. To know the treatability of sewage and industrial waste water. To check air pollution and sound pollution. |
| Computer Science & Engineering & Information Technology Department | Network Lab | OPNET IT Guru Network Simulator Wireless Access Points Wireless LAN Cards | High end network performance analysis and simulation tool. |
| | Software Engg. lab | IBM Rational Rose Software | UML based software engineering tool to analyze software development life cycle |
| | Multimedia Lab | Infrared Thermal Camera | |
| | Embedded & Wireless Communication Lab | | Interfacing devices and embedded applications |
| Mechanical Engineering Department | Energy Conversion Lab. | Internal Combustion Engine test set up, Automotive Exhaust air pollution, Compressed Air. | For Experimentation and Development of Exhaust emission control devices |

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| | Refrigeration & Air Conditioning Lab. | Alternative refrigerants, Performances improvement of convectional and non convectional refrigeration system. | For Testing and development of Eco friendly refrigerants |
| | CAD/CAE Lab. | ANSYS Multi-physics 9.0 software for structural and Thermal analysis. Unigraphis NX4 CAD/CAM - Nastran software for 2D/3D Modeling. | For Analysis and CFD modeling of various systems and components |
| | Heat Transfer Lab. | Performance and testing of Heat exchangers. | For Performance and testing of Heat exchangers. |
| | Automation in Production lab | Six axis vertically articulated robot set up, XLTURN CNC Lathe and milling machines | To provide facilities for Experimentation and fabrication of robots |
| Electrical Engineering Department | High voltage | Impulse generator, 100 KV AC , 140 KVDC, 420 KV impulse. 2.94 kj, three stage Storage CRO Tan Delta System | PG Practical and UG PG Projects. Support for PhD scholars |
| | FACTS | Transmission line model SVC, VSC based FACTS Devices Power scope Phase shifting Transformer | PG Practical and UG PG Projects. Support for PhD scholars |
| | Advanced electrical drives | 3-ph SRM-IGBT Power Module 1 PH S R Motor SRM Module of Motor Pro Software Drives: - PLC Trainer kit, PLC, RS Logix Software & communication cable | PG Practical and UG PG Projects. Support for PhD scholars |
| | Wind Generator Lab | Wind generator panel | Support for PhD scholars |
| Electronics Engineering and Electronics & Telecommunication Engineering Department | R&D Lab | Universal Calibrator 9 in 1 Test Lab Hand Held DSO Programmable Multimeter | To create Electronics Calibration facility |
| | Embedded System lab | Stand Alone Logic Analyzer (34 channel) (make- Techtronix) , Universal Programmer, LabView, Multisim, MultiMCU, VisSim Software, NI ELVIS Hardware board, Embedded Development Tool for 8051 Microcontroller- KEIL PK 51, ARM Microcontroller- KEIL MDK-ARM, ARM Microcontroller Evolution Board for Philips -KEIL MCB2103, KEIL ULINK (USB JTAG link Adapter for ARM controller), 8051 μ C Kits | To design and testing of Microcontroller based Embedded System |

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| Electronics Workshop Lab | Double sided PCB development equipments like Proto-contact PCB Artwork Film Maker Proto-Etch Etching Machine Photo Dye/developer (2 in 1) Motorized roller Tinning Machine Proto-Shot (Compact Vertical reprographic Camera) Thru-hole-plating system (PTH) Dry film laminator Photo developer /stripper Wave Soldering machine. | Design and Fabrication of Double Sided PCB Boards. |
| Optical Communication lab | Optical Communication System Design equipment like Fiber optic power meter Fiber optic LED light source Fiber optic continuity tester Fiber optic video link Fiber optic Connectorization cum splicing Kit Fiber optic trainer system Optical Time Domain Reflectometer (OTDR) Power Quality Analyzer | Design and testing of fiber optic system |
| Telephony Lab | CDMA Kit ,GSM Kit, Mobile Trainer, Telephone Trainer system LAN trainer System, GPS Trainer system | Testing and understanding of working of wired and Wireless communication System |
| VLSI Lab | Xilinx 9.1, ModelSim , Altera MaxPlus- II, Tanner Tool for VLSI | Modeling, Design and testing of VLSI based Systems |
| DSP and Communication lab | DSP starter kits (TMS320C5416, TMS320C6713), Spectrum Analyzer (3.3 GHz) | Design and Testing of DSP based System |
| PG lab | Wireless Sensor Kits | Testing of WSN techniques. |