Available infrastructural facilities

Department of Civil Engineering



Structures & Dynamics Laboratory-Shake Table & Vibration of Beams (TEQIP-III)



Concrete Laboratory- Jaw Crusher (SRIC)



Concrete Laboratory-Segregator (SRIC)



Structures Laboratory- 100 Ton UTM (TEQIP-III)



Concrete Laboratory-Creep Testing Equipment (Plan Grants)



Structures & Dynamics Laboratory- Drop Weight Impact Tester (IMPRINT-2)



Concrete Mixer (DST)

Metallurgy and Materials Lab

- Glove box to maintain argon atmosphere.
- Upright Metallurgical Microscope (Quasmo make & QX4RT model) in Physical metallurgy lab to investigate the microstructure of materials.
- Chipset (SEM computer part) of Tescan brand.



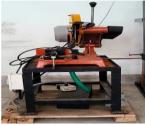
Established 'welding Lab' with the instruments of Shielded metal arc welding (SMAW), Gas metal arc welding (GMAW), Gas Tungsten arc welding (GMAW), Abrasive cutting machine, Sub merged arc welding (SAW) and Varestraint testing equipment.



Gas metal arc welding (GMAW)



Gas Tungsten arc welding (GMAW)



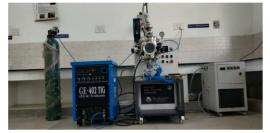
Abrasive cutting machine



Sub merged arc welding (SAW)



Varestraint testing equipment



Argon arc melting equipment

Department of Chemical Engineering

New Lab Equipments/software/Workstations Installed

- 1. Purchased & Installed High Pressure Hydrothermal Autoclave Reactor.
- 2. Purchased & Installed Photochemical Reactor
- 3. Purchased & Installed Fast Pyrolysis reactor
- 4. Purchased & Installed Emulsion Polymerization Reactor
- 5. Purchased & Installed 3D Printer with Curing and Washing Accessories
- 6. Purchased & Installed Bench Ultraviolet Light Accelerated Weathering Tester
- 7. Purchased & Installed Refrigerated centrifuge
- 8. Purchased & Installed Optical Microscope
- 9. Purchased Doctor blade
- 10. Purchased & Installed Coin cell crymper
- 11. Purchased & Installed Servers (Tyrone 2 x Intel DDR4 SDRAM with EC 64GB).
- 12. Purchased & Installed Pervaporation Membrane System.

Department of Biotechnology

- 1. Purchased & Installed UV Transilluminator for genetic engineering laboratory.
- 2. Purchased & Installed Ice flaking machine in biochemistry laboratory.
- 3. Schrodinger software purchased and installed for the Bioinformatics laboratory.
- 4. Purchased & Installed water purification system in genetic engineering laboratory.



Department of Physics

1. Linear Four Probe equipment to measure resistance of large area samples



3. Refrigerated centrifuge; 21000 rpm, REMI Instruments.

4. Ultrasonicator, M/s: Athena Technology - 29500/- Plan-General Equipment (P845)" – Department of physics 2021-2022.

5. Spin coater, M/s: Apex instruments company private limited (MSE) -1,56,188 "Plan-General Equipment (P845)" –Department of physics 2021-22.

6. UV-VISIBLE SPECTROMETER, Metler Toledo-UV5, Rs. 7,50,000/-"Plan-General Equipment (P845)" – Department of physics 2021-22.



7. Zeta potential and particle size analyser, Model Name: Litesizer 500, Rs.28,00,000.00, "Plan-General Equipment (P845)".



8. CO2 Incubator, Rs. 500000/- from DBT Project - 2021

Department of Chemistry

1. Purchased & Installed Liquid Nitrogen Plant

2. Purchased & Installed Oil-free scroll compressor for 400 MHz NMR instrument.

3. Dr. Raghu Chitta. Electrochemical workstation (CH Instruments) procured under the DST SERB Grant DST/CRG/2018/002661

4. Dr. B. Srinivas. Procured Solid-state probe for 400 MHz NMR Instrument under TEQIP-III Grants.

5. Dr. Ravinder Pawar. 3 Node Cluster procured under DST SERB Grant ECR/2018/002346.

6. Dr. Ravinder Pawar. VASP software procured under DST SERB Grant ECR/2018/002346.

7. Dr. Ravinder Pawar. 4 computing Nodes Cluster procured under DST SERB Grant EEQ/2019/000656.

8. Dr. Ravinder Pawar. AMS-SCM software procured under DST SERB Grant EEQ/2019/000656.

9. Dr. Mukul Pradhan. Electrochemical workstation (CH Instruments) procured under the DST INSPIRE Faculty Grant DST/ INSPIRE Faculty Award /2016/DST/INSPIRE/04/2015/003227.

Department of Mathematics



Computational Lab

HP Z800 workstation Dual Quad core

PowerEdge 750xs Rack Server

Software: Tecplot 360, Matlab

CENTRAL RESEARCH INSTRUMENTATION FACILITY

