






INSTRUMENT FACILITIES


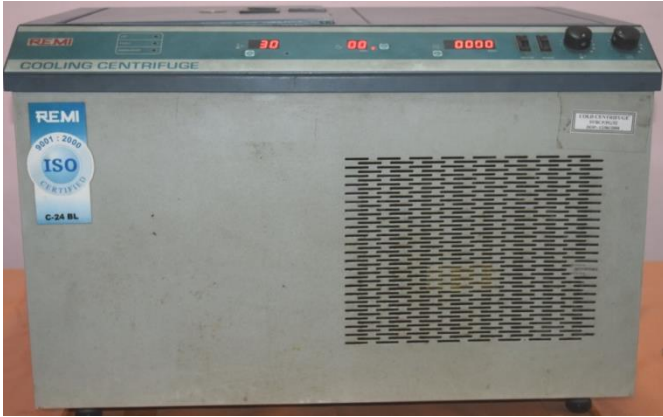

Air conditioned instrument lab is well equipped with latest modern analytical instruments suitable for modern research.




The upgraded facilities encourage the undergraduate students and research scholars to explore the application of modern analytical instruments to conduct quality research.


List of Analytical Instruments

Sr. No.	Name of Instruments	Details
1	<p>High Performance Liquid Chromatography (HPLC)</p> 	<p>Manufacturer: Schimadzu Model: SPD-10AVP Other info: Isocratic System, UV-Vis detector Application: Identification, Quantification and Purification of sample.</p>
2	<p>High Performance Liquid Chromatography (HPLC)</p> 	<p>Manufacturer: Jasco Model: JASCOHPLC-400 Other info: Gradient system, UV-Vis detector Application: Identification, Quantification and Purification of sample.</p>

<p>3</p>	<p>High-Performance Thin-Layer Chromatography (HPTLC)</p> 	<p>Make & Model: CAMAG Sample applicator- Linomat 5 Scanner: TLC Scanner 3 Software: winCATS Planar Chromatography Manager Applications: Qualitative and Quantitative analysis of Phytoconstituents and Pharmaceuticals.</p>
<p>4</p>	<p>Digital microscope with Image plus 2.0 software</p> 	<p>Make: Motic Scientific Ltd. Software: Image plus 2.0 software with Windows 7. Applications: Digital microscopy, Digital Imaging and is an excellent tool for Medical Life Science and in medical field.</p>
<p>6</p>	<p>Double beam UV-VIS Spectrophotometer</p> 	<p>Shimadzu Model: SL-1900 Applications: Qualitative and Quantitative analysis of Pharmaceuticals. Multicomponent analysis, derivative spectroscopy.</p>

7	<p>Double beam UV-VIS Spectrophotometer</p> 	<p>INKARP Model:- SICAN-2301 Applications: Qualitative and Quantitative analysis of Pharmaceuticals.</p>
8	<p>High Speed Cooling Centrifuge</p> 	<p>Make and model: REMI High Speed : 20000 RPM Precise temperature control up to - 8°C Applications: useful in Purification of biological samples, Preparation of Phytosomes and extraction of Proteins.</p>
9	<p>Flash Chromatography</p> 	<p>Make and Model: Biotage Biotage isolation system <u>with SNAP Ultra flash chromatography cartridges</u> Applications: It is used for isolation of phytochemical constituents of complex plant extracts.</p>

		It is useful technique for quickly separating increasing quantities of samples.
10	FTIR with ATR 	Make: JASCO. latest sample handling techniques ATR provides quick analysis of sample. Applications: Qualitative analysis of variety of samples. Structural elucidation by determining functional groups.
11	Gel Electrophoresis-Horizontal 	Make: Genei Used for Characterization of DNA and RNA
12	Gel Electrophoresis-Vertical 	Make: Equiptronic Used for characterization of Proteins.

13	Deep Freezer:- -20⁰C 	Make: Celfrost Useful for storage of bioanalytical samples Cryopreservation Storage of enzyme Kit. Helpful for Pre-Clinical studies.
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