



## SVBCP InStrument FaCII ItleS




Air conditioned Instrument Lab is well equipped with latest sophisticated analytical instruments suitable for modern research.

The upgraded facilities available 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><b>High Performance Liquid Chromatography (HPLC)</b></p> 	<p><b>Manufacturer: Shimadzu</b> Model: SPD-10AVP Other info: Isocratic System, UV-Vis detector <b>Applications:</b> Identification, Quantification and Purification of sample.</p>
2	<p><b>High Performance Liquid Chromatography (HPLC)</b></p> 	<p><b>Manufacturer: Jasco</b> Model: JASCOHPLC-400 Other info: Gradient system, UV-Vis detector <b>Applications:</b> Identification, Quantification and Purification of sample.</p>

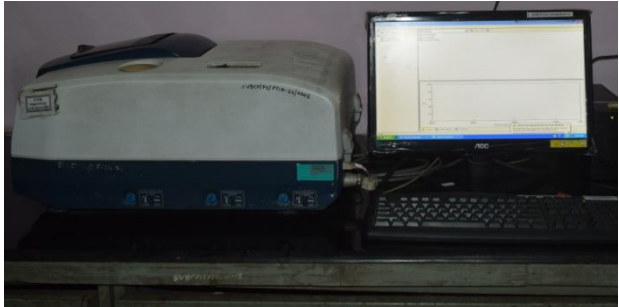



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3	<p><b>High-Performance Thin-Layer Chromatography (HPTLC)</b></p> 	<p><b>Make &amp; Model: CAMAG</b></p> <p>Sample applicator- Linomat 5</p> <p>Scanner: TLC Scanner 3</p> <p>Software: winCATS Planar Chromatography Manager</p> <p><b>Applications:</b> Qualitative and Quantitative analysis of Phytoconstituents and Pharmaceuticals.</p>
4	<p><b>Digital microscope with Image plus 2.0 software</b></p> 	<p><b>Make: Motic Scientific Ltd.</b></p> <p>Software: Image plus 2.0 software with Windows 7.</p> <p><b>Applications:</b> Digital Microscopy, Digital Imaging and is an excellent tool for Medical Life Science and in medical field.</p>
5	<p><b>UV-VIS Spectrophotometer</b></p> 	<p><b>Make: ELICO</b></p> <p>Model: SL-159</p> <p><b>Applications:</b> Qualitative and Quantitative analysis of Pharmaceuticals.</p>

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6	<p><b>Double beam UV-VIS Spectrophotometer</b></p> 	<p><b>Make: INKARP</b> Model:- SICAN-2301</p> <p><b>Applications:</b> Qualitative and Quantitative analysis of Pharmaceuticals.</p>
7	<p><b>High Speed Cooling Centrifuge</b></p> 	<p><b>Make and model: REMI</b> High Speed : 20000 RPM Precise temperature control up to <math>-8^{\circ}\text{C}</math></p> <p><b>Applications:</b> useful in Purification of biological samples, Preparation of Phytosomes and extraction of Proteins.</p>
8	<p><b>Flash Chromatography</b></p> 	<p><b>Make and Model: Biotage</b></p> <p>Biotage isolation system with SNAP Ultra flash chromatography cartridges.</p> <p><b>Applications:</b> It is used for isolation of Phytochemical constituents of complex plant extracts.</p> <p>It is useful for quickly separating high quantities of samples.</p>

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9	<b>FTIR</b>  A white and blue FTIR spectrometer is shown on a desk next to a computer monitor displaying a software interface. The spectrometer has a control panel with several buttons and a small display.	<b>Make: JASCO</b> <b>Applications:</b> Qualitative analysis of variety of samples. Structural elucidation by determining functional groups.
10	<b>Gel Electrophoresis-Horizontal</b>  A horizontal gel electrophoresis apparatus is shown. It consists of a power supply unit with two red digital displays and a gel tank with a glass cover. The gel tank has a red label that says "Gel".	<b>Make: Genei</b> <b>Applications:</b> Used for Characterization of DNA and RNA
11	<b>Gel Electrophoresis-Vertical</b>  A vertical gel electrophoresis apparatus is shown. It consists of a yellow power supply unit with two digital displays and a gel tank with a glass cover. The gel tank has a black label that says "EQUIP-TRONIC".	<b>Make: Equiptronic</b> <b>Applications:</b> Used for characterization of Proteins.
12	<b>Deep Freezer:-20<sup>0</sup>C</b>  A white deep freezer is shown with its door open. The interior has several shelves and drawers. The door is open to the right, showing the inner door panel.	<b>Make: Celfrost</b> Temperature :upto -20 <sup>0</sup> C <b>Applications:</b> Useful for storage of bioanalytical samples, Cryopreservation and Storage of enzyme Kit. Helpful for Pre-Clinical studies.