


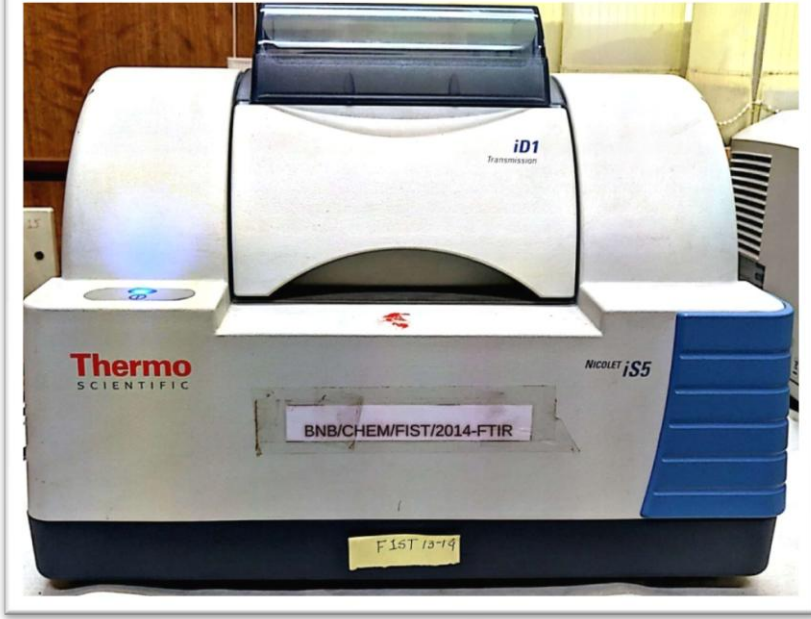



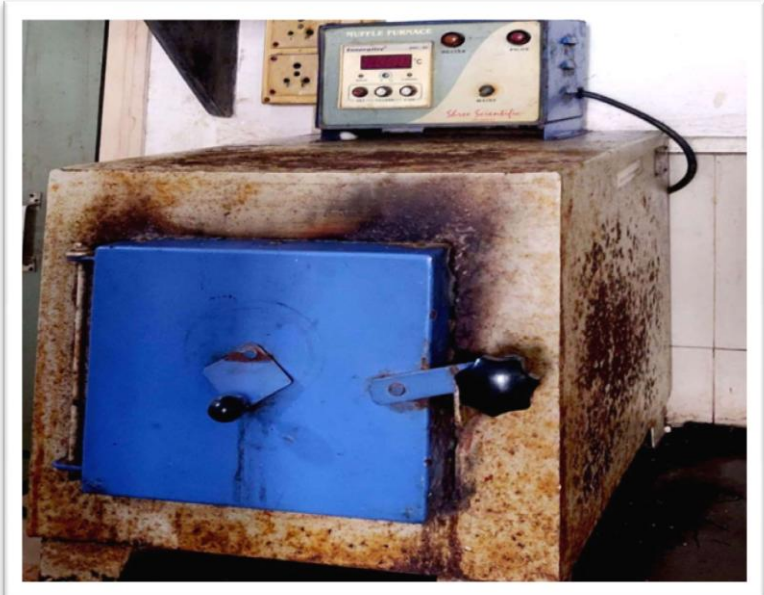


Department of Chemistry

Sr no	Name of instrument	Description of instrument	Image of instrument
1	Rudolph Research Analytical 2910 Densitometer	The Rudolph Density Meter is used for research and production work across many industries including Chemical, Petroleum, Pharmaceutical, Petro-Chemical, and Beverage.	 <p>The image shows a white, boxy Rudolph Research Analytical 2910 Densitometer. It features a large, dark rectangular display screen on the top half and a sample compartment with a viewing window on the bottom half. A blue label is visible on the front panel.</p>
2	Low Temperature viscometer bath (KI-KVB-04/SP)	The low temperature viscosity bath designed to achieve ultra-high stability in the temperature range of +20 °C to -40 °C.	 <p>The image shows a white and teal Low Temperature viscometer bath. The top panel is teal and contains several control buttons (red, green, yellow) and a digital display. The main body is white with a large viewing window on the left and a vented area on the right. Handwritten text on the front panel reads "UGC F 38-24/2009 (SR)".</p>
3	UV Spectrophotometer Shimadzu (UV-1800)	UV/Vis spectrophotometer is routinely used in analytical chemistry for the quantitative determination of different analytes.	 <p>The image shows a Shimadzu UV-1800 Spectrophotometer. It has a white base and a dark grey top. The control panel features a small LCD screen and a grid of blue and white buttons. A label on the front panel reads "UGC MP 34 204/2006".</p>

4	Infra-Red spectrometer (IR) Thermo scientific (Nicolet is5)	Infrared spectrophotometers record the relative amount of energy as a function of the wavelength/frequency of the infrared radiation when it passes through a sample.	 <p>The image shows a Thermo Scientific Nicolet iS5 FTIR spectrometer. It is a white and blue instrument with a sample compartment on top. The front panel features the Thermo Scientific logo and the model name 'NICOLET iS5'. A label on the front reads 'BNB/CHEM/FIST/2014-FTIR' and a yellow sticker below it says 'FIST 13-14'.</p>
5	Flame Photometer (Equiptronics)	Flame photometer can be used to determine the concentration of metal ions in the form of atoms.	 <p>The image shows two pieces of equipment from Equiptronics. On the left is a Flame Photometer (Model FIST-2013/14) with a digital display showing '166'. On the right is a yellow Compressor Unit (Model FIST-2013/14) with a pressure gauge and an 'AIR OUT' port. Both units have 'EQUIP-TRONICS' branding.</p>
6	Single Beam Spectrophotometer (Equiptronics)	UV/Vis spectroscopy is routinely used in analytical chemistry for the quantitative determination of different analytes.	 <p>The image shows a Single Beam Spectrophotometer (Model No. 10-10-10) from Equiptronics. It is a white instrument with a digital display and several control knobs and buttons. The front panel includes labels for 'SAMPLE OPEN', 'BLANK', 'WAVELENGTH', and 'DIGITAL SPECTROPHOTOMETER MODEL NO. 10-10-10'.</p>

7	Laboratory Oven (META-LAB)	Ovens are used in laboratory areas during various laboratory processes including drying of glassware, sample drying, melting, and chemical reactions.	
8	Muffle Furnace (Shree Scientific)	Muffle furnace is widely used in laboratories with a compact means to create a high-temperature up to 1200 degree Celsius to test the characteristics of the materials.	
9	Microwave Oven (Samsung)	To carry out the microwave assisted several organic transformations	