



UGC RECOGNIZED

PDEU PANDIT
DEENDAYAL
ENERGY
UNIVERSITY

Formerly Pandit Deendayal Petroleum University (PDPU)

Research Facilities

Department of Physics

Glove box



Application: Synthesis and growth of environmental thin films under controlled environment.



Chemical Vapor Deposition (CVD)

Application: Developing the nanostructures using highly reactive gasses.

Solar Thermal Trainer

This is a small model of real time water heating system and can be used for the characterization and different heat transfer analysis. Different aspects like efficiency, overall heat loss coefficient and heat removal factor and their corresponding calculations can be demonstrated with the help of this system.





Solar PV Trainer

Application: To estimate the photovoltaic parameters of solar panel under illumination conditions



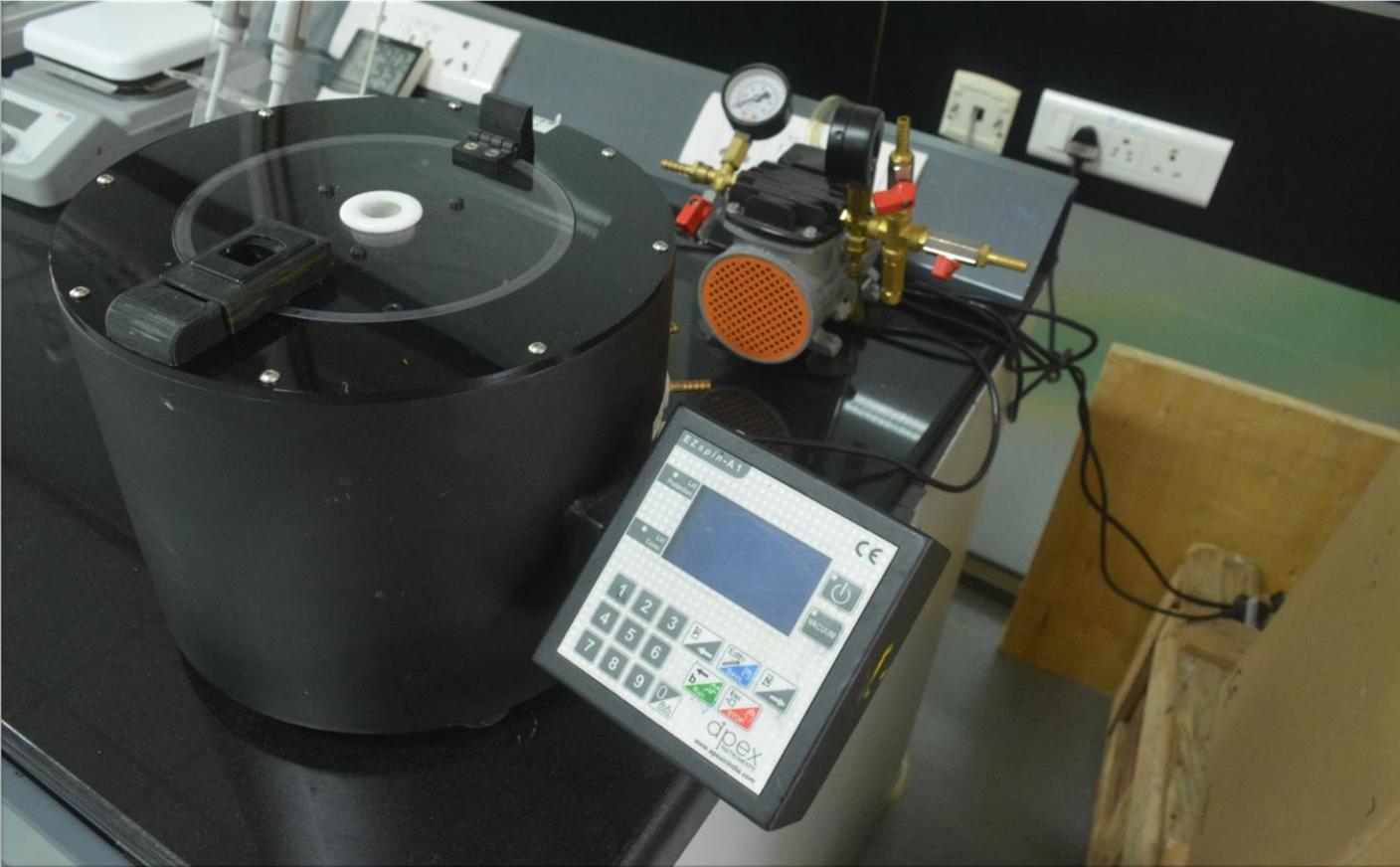
Fumehood

Application: Used for chemical synthesis under closed environment.

DC Sputtering System



Application: Solution-free thin film development technology.



Spin Coating System

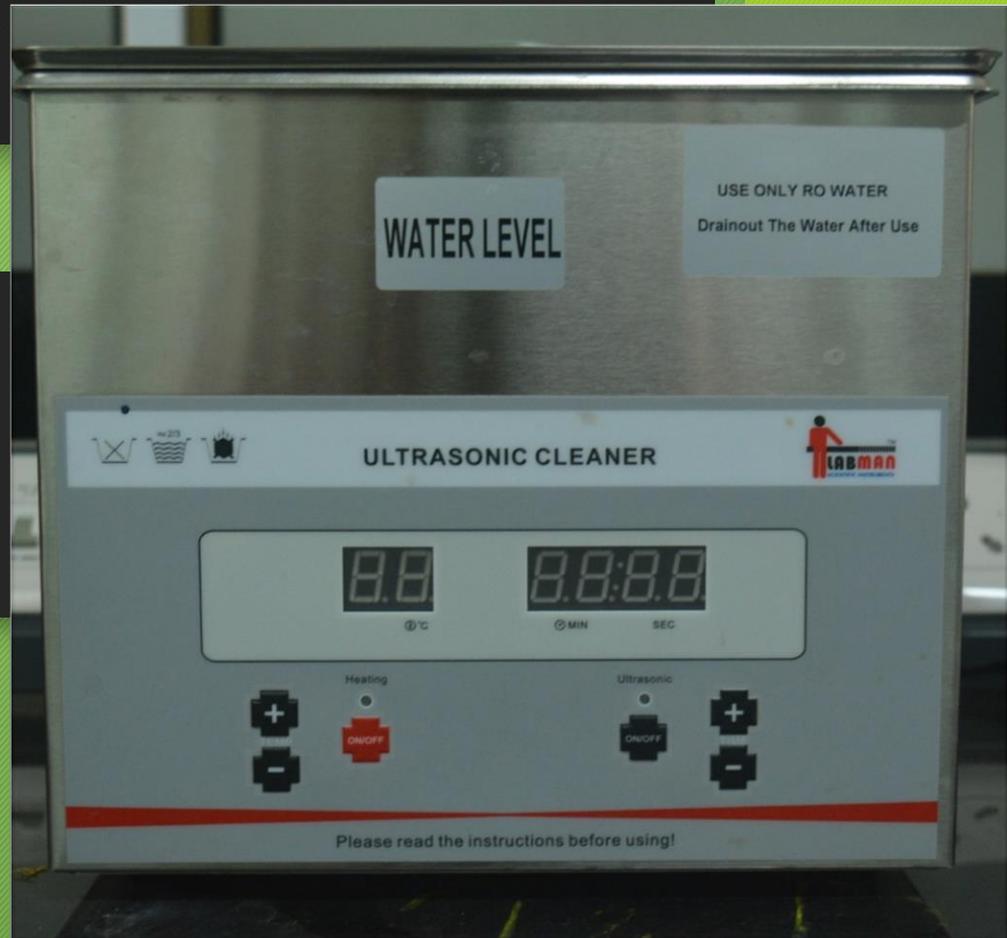
Application: Developing high quality thin films via solution process.

Weighing Balance



Application: Weighing of materials upto milligram with high precision.

Ultrasonic Cleaner



Application: Used for sample cleaning.



Keithley 2450

Application: Current-voltage source meter for electronic measurements .

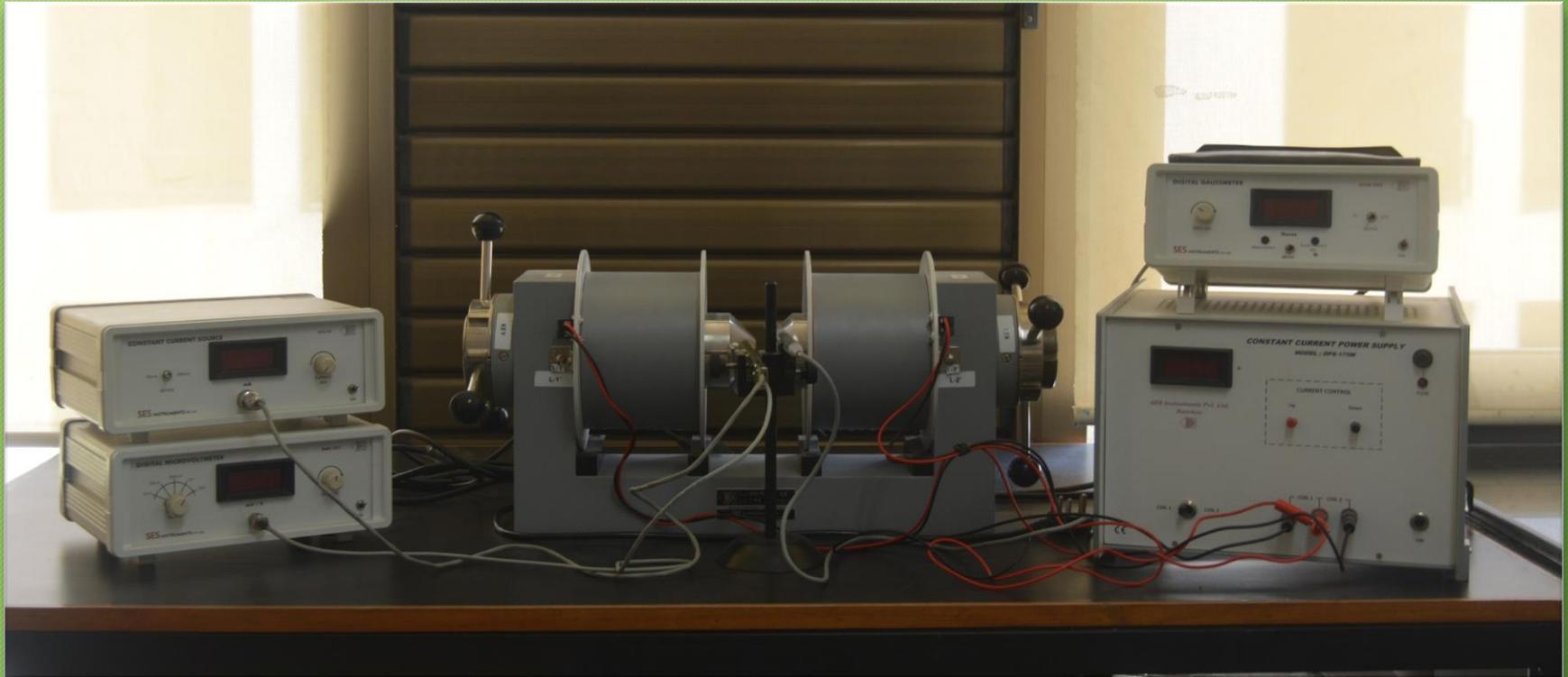
Micro positioners



Application: Electrical current-voltage measurements of micron size devices.

Magnetic Susceptibility Balance





MegResistance Meter

Application: It is used to measure the electrical resistance of insulators



Function Generator

Application: To generate the input signal waveform.

Digital Oscilloscope



Application: To capture output signal waveform in electronics experiments.

Department of Chemistry



IR Spectrophotometer

An analytical instrument used to identify materials including organic polymers.



Gas chromatography

Gas chromatography (GC) is undoubtedly one of the key techniques used for screening / identification / quantification of many groups of non-polar and/or semi-polar food toxicants (or their GC amenable derivatisation products)

Flash Chromatography



A chemical separation technique used to purify chemical mixtures.



HPLC

HPLC is an abbreviation for High Performance Liquid Chromatography. "Chromatography" is a technique for separation, "chromatogram" is the result of chromatography, and "chromatograph" is the instrument used to conduct chromatography.

Central Facilities

Scanning Electron Microscopy



Application: To capture high resolution sample images.

X-Ray Diffraction System



Application: To determine the crystal orientation in thin film and powder samples.