

Sophisticated Equipments Available In

Special Laboratory for Multifunctional Nano Materials (SLMN)

(Supported by Nano-Mission, DST, Govt of India)

P.G Department of Physics



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Multi-Wave Pro Synthesis and Digestion Instrument

Cost: ₹ 31.00 Lacs

Quantity: 1 No.

Uses:

- Green and effective synthesis method
- Fast route to synthesize nanomaterials
- Provides uniform heating to samples throughout.



Furnace for Hydrothermal Synthesis and Annealing Process

Cost: ₹ 3.00 Lacs

Quantity: 1 No.

Uses:

- Hydrothermal synthesis
- Low temperature calcinations, annealing of samples

**UV-Vis Spectrophotometer
(Advanced)**

Cost: ₹ 33.00 Lacs

Quantity: 1 No.

Uses:

- Absorbance spectra
- Reflectance spectra
- Energy kinetics
- Bandgap prediction

**Scanning Electron
Microscope (Hitachi S-
3600N)**

Cost: ₹ 85.00 Lacs

Quantity: 1 No.

Uses:

- Surface morphology of nanomaterials
- Size determination
- Elemental Composition identification



X-Ray Diffraction

Cost: ₹ 55.00 Lacs

Quantity: 1 No.

Uses:

- Structural Analysis
- Crystallite size
- Williamson hall analysis
- Crystallinity

