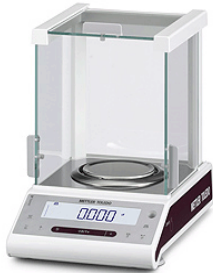


Aryabhata Centre for Nanoscience and Nanotechnology, School of engineering and Technology: Scientific Research Equipment

1. Automatic pH and Conductivity meter

(Make: Mettler Toledo AG, Switzerland)



2. Water cooled bench top grinding machine (Planetary ball mill type)

(Make: Retsch, Germany)



3. Microprocessor based High-Temperature Furnace
(Temperature range: upto 1800°C)

(Make: Nabertherm, Germany)



4. Dynamic Light Scattering Particle Size cum Zeta Potential Analyser (Make: Micromeritics Instruments Corp., USA)



5. X-Ray Diffractometer with temperature (*lq.* N₂ - 1200°C) variation facility

(Make: Bruker, Germany)



6. Scanning Electron Microscope
(Make: Carl Zeiss Microscopy Ltd., UK)



7. Digital Refractometer with temperature variation facility
(Make: Mettler Toledo AG, Switzerland)



8. UV-Vis-NIR spectrophotometer with temperature variation facility
(Make: PerkinElmer, UK)



9. FTIR spectrophotometer
(PerkinElmer, UK) (Make: PerkinElmer, UK)

10. Photoluminescence measurement system with temperature variation facility
(Make: PerkinElmer, UK)

11-13. Atomic Force Microscope cum Scanning Tunnelling Microscope
(Make: NT-MDT, Ireland)



14. High Temperature ($lq. N_2 - 1600^\circ C$) Simultaneous TG-DTA / DSC Analyser (Make: NETZSCH Technologies, **Germany**)



15. High Precision Dilatometer (NETZSCH Technologies, Germany) (Make: NETZSCH Technologies, **Germany**)



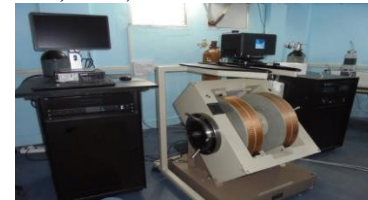
16. Impedance Analyser (40 Hz – 110 MHz) with temperature (up to $1000^\circ C$) variation facility. (Make: Keysight Technologies, USA)



17. Precision Multiferroic Test System ($P-E$, piezoelectric, pyroelectric, magneto-electric for bulk and thin-films) with temperature variation facility (Make: Radiant Technologies Inc., USA)



18. Vibrating Sample Magnetometer with temperature variation facility (Make: **Lake Shore Cryotronics, Inc., USA**)



19. Nanoparticle Tracking Analysis system (Make: Malvern Instruments, UK)

20-21. Micro Twin Screw Extruder and Micro-Injection Moulding Machine(Germany)



23. Microwave assisted Hydrothermal technique for nanomaterial synthesis (Milestone, Italy)

