

About STUTI:

The Scheme 'Synergistic Training program Utilizing the Scientific and Technological Infrastructure' (STUTI) is intended to build human resource and its knowledge capacity through open access S&T Infrastructure across the country. As a complement to the various schemes of DST funding for expansion of R&D Infrastructure at academic institutions, STUTI scheme envisions a hands-on training program and sensitization of the state-of-the-art equipment as well as towards sharing while ensuring transparent access of S&T facilities.

Instruments covered for training:

RAMAN Spectrophotometer	HPLC-PDA	HRSTEM	Particle Size Analyzer
E-Beam deposit system	GC-FID	PCR	Animal Research Facilities
FESEM	AFM	TG-DSC/DTA	Cell Culture Facilities
FTIR	XRD	ICP-MS	Spectro-fluorometer

E-Beam depot system

Make: FRANCE

Model: MEB 600, Plassys

Applications: Optical thin film applications as laser optics and solar panels to eyeglasses and architectural glass



HRSTEM

Make: Thermofisher Scientific, USA

Model: TALOS F200S G2

Applications: To image atomic structure of molecules

FESEM

Make: GERMANY

Model: ZEISS SIGMA 300

Applications: Surface morphology, advanced coating thickness and structure uniformity determination



AFM

Make: Ireland

Model: NTEGRA PRIMA-NTMDT

Applications: Used for imaging of almost any type of surface, including polymers, ceramics, composites, glass and biological materials

Confocal RAMAN Spectrophotometer

Make: Renishaw

Model: Renishaw

Applications: To study the vibrational, rotational, and low-frequency modes of the molecules.





FTIR

Make: Japan

Model: JASCO, FTIR 6600

Applications: To quickly and definitively identify compounds such as compounded plastics, blends, fillers, paints, rubbers, coatings, resins, and adhesives

XRD

Make: Thermofisher Scientific,
USA

Model: ARL EQUINOX 3000

Applications: Identification of unknown crystalline materials (e.g. minerals, inorganic compounds)



High Performance Liquid Chromatography-PDA

Make: Waters, USA

Model: 2545 HPLC-PDA

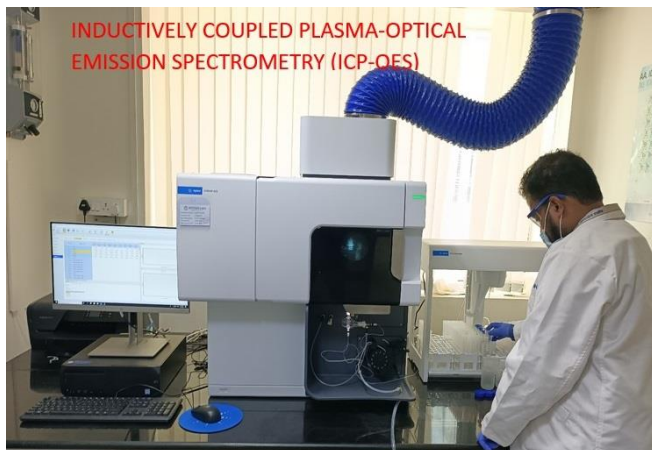
Applications: pharmaceutical, bioanalytical, food and beverage, clinical, forensic, environmental and drug development.

Thermal Cycler

Make: Agilent Technologies

Model: SureCycler 8800

Applications: Amplification of target gene using PCR for various downstream applications such as genotyping, cloning, mutation detection, sequencing, microarrays, forensics, etc.



Inductively coupled plasma mass spectrometry (ICP-MS)

Make: Agilent Technologies, USA

Model: 7700

Applications: Inductively coupled plasma mass spectrometry (ICP-MS) is an analytical technique that can be used to measure elements at trace levels in biological fluids

Particle Size Analyzer

Make: Nanopartica

Model: SZ 100V2

Applications: Particle analyzers are used to determine the size and distribution of particles making up a material. Particle size analyzers are used in numerous fields for research and development, manufacturing and for quality control and product testing.

