

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:

1. WD-XRF
2. HR-ICP-MS
3. Ion Chromatography
4. IR-MS
5. SEM-EDS
6. LA system
7. LSS
8. DI-IRMS
9. OSL

Equipment Name: WAVELENGTH DISPERSIVE X-RAY FLUORESCENCE SPECTROMETER

Make: Malvern Panalytical

Model: Axios mAX

Application: For the determination of major oxides in geological samples. Useful in the mineral exploration and crustal evolution studies.



Equipment Name: HIGH RESOLUTION INDUCTIVELY COUPLED PLASMA MASS SPECTROMETER

Make: Nu Instruments

Model: ATTOM

Application: For the determination of trace elements including REE and PGE in geological and environmental samples. It is useful in the mineral exploration, crustal evolution and environmental studies.

Equipment Name: SCANNING ELECTRON MICROSCOPE-ENERGY DISPERSIVE SPECTROMETER

Make: HITACHI, Japan

Model: S-3400 N

Application: Widely used for the imaging and characterization in material science, geological and environmental sciences. It is used for studying the sample surface topography, chemical composition etc.



Equipment Name: ION-CHROMATOGRAPHY

Make: Metrohm

Model: 882 Compact IC Plus

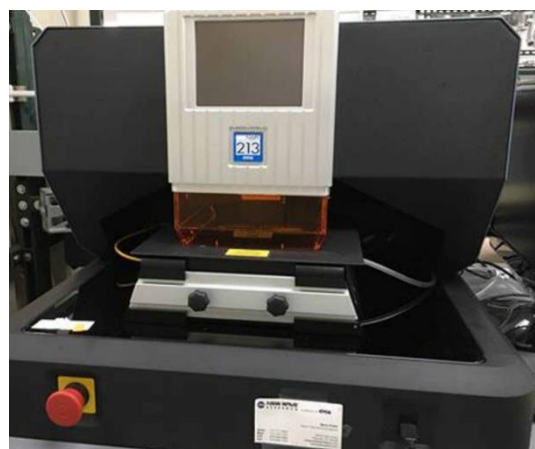
Application: It is used for the determination of anion and few cations in water samples. It is useful in the environmental sciences.

Equipment Name: LASER ABLATION SYSTEM (coupled with HR-ICP-MS)

Make: ESI

Model: NWR 193

Application: Used for the in-situ determination of trace elements and isotope ratios in minerals. It is useful in the earth sciences and materials science.





Equipment Name: DUEL-INLET ISOTOPE RATIO MASS SPECTROMETER

Make: GB instruments

Model: Isoprime JB-202

Application: It is used for analyzing stable isotopes in natural water samples. It has several applications in the hydrological and environmental sciences.

Equipment Name: LIQUID SCINTILLATION SPECTROMETER

Make: Wallac

Model: Wallac Quantulus, 1220 Ultra-low level

Application: It is used to detect ionizing radiation emitted by radioisotopes, with a specific focus on detecting alpha or beta particles; this allows for the measurement of the radioactivity of the sample for applications such as radiocarbon dating.



Equipment Name: RISØ TL/OSL READER

Make: Risø National Laboratory Roskilde Denmark

Model: TL-DA-15

Application: It is used for OSL dating of sediment grains to determine the age of Quaternary sedimentary deposits. It has applications in Radiation monitoring, archaeology and Quaternary Geology including paleo-seismic studies.