BITS PILANI
Pilani Campus

TWO-DAY HANDS-ON TRAINING PROGRAMME ON X-RAY PHOTOELECTRON SPECTROSCOPY (XPS)



Organized by:

CENTRAL INSTRUMENTATION FACILITY

ABOUT THE PROGRAMME

The Central Instrumentation Facility (CIF), BITS Pilani, Pilani Campus, organized a Two-Day Hands-on Training Programme on X-ray Photoelectron Spectroscopy (XPS) to provide participants with theoretical knowledge and practical exposure to the principles, operation and applications of XPS in advanced characterization.

The programme focused on understanding of:

- Fundamentals of XPS.
- Surface elemental composition analysis, chemical state identification and chemical bonding analysis.
- Participants gained practical insights into sample preparation, instrument operation, data acquisition and spectral analysis using XPS software.
- Peak fitting, background subtraction, elemental identification and interpretation of high-resolution spectra using Thermo Avantage Data Processing Software.
- Fundamental of UPS and Work function.
- Sample preparation for UPS analysis.

ABOUT CIF, BITS PILANI

The Central Instrumentation Facility (CIF) houses multiple high-end analytical instruments to facilitate research and teaching. The facility is mainly used for research and training purposes. The facility has two components: Sophisticated Instrument Facility (SIF) and Central Analytical Laboratory (CAL), which houses high-end instruments used for research purposes in the field of Science and Engineering. The SIF provides services to both internal and external users on a payment basis. Services are booked online by: https://www.bits-pilani.ac.in/pilani/central-instrumentation-facility/

SPEAKERS

Prof. Surojit Pande
Professor, Dept. of Chemistry, BITS Pilani

Dr. Karthick Balasubramanian
Senior Product Manager, Thermofisher Scientifc India Pvt.Ltd.

Mr. Vijay Kumar Gupta
Senior Field Service Engineer, Thermofisher Scientifc India Pvt.Ltd.

REGISTRATION DETAILS

Only a limited number of seats are available:
Registration will be closed after the available number is reached.

Last date of registration: 18th November, 2026
Registration Charges: Please visit @ bits-cif
Registration link: Reg-XPSWorkshop
For accommodation: BITS-accommodation

ORGANIZING COMMITTEE

Convenors:

Prof. Prabhat Nath Jha
Professor and Faculty-in-charge, CIF
&
Prof. Atish T Paul
Professor and Co-coordinator, SIF, CIF

REGISTER TODAY

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