



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
CATEGORY – 1 UNIVERSITY BY UGC



Centre for Nanoscience and Nanotechnology
Centre of Excellence for Energy Research
Sathyabama Centre for Advanced Studies

Invites

Students | Research Scholars | Faculty | Scientist

One Day National Workshop on
**X-ray Photoelectron Spectroscopy:
Introduction, Data Analysis &
Practical Insights**

24th October 2025

Registration Link:

<https://l1nq.com/xofe8>



Registration Fee: Rs. 600/-



International Research Centre (IRC)
Presentation Hall (First Floor)

ABOUT THE WORKSHOP

X-ray photoelectron spectroscopy (XPS) is a surface-sensitive quantitative spectroscopic method based on the photoelectric effect that can determine the elements present (elemental composition) in the top surface of the sample along with their chemical state, overall electronic structure, and binding energy. The technique can be used in line profiling of the elemental composition across the surface, or in depth profiling when paired with ion-beam etching. This workshop provides an opportunity for scientists, engineers, faculties, research scholars, and students working in materials science to gain insight into the fundamentals of X-ray Photoelectron Spectroscopy (XPS), its instrumentation and current applications.

SPEAKERS

Introduction to XPS and its Application



Dr. Parthasarathi Bera

Senior Principal Scientist
Surface Engineering Division,
CSIR–National Aerospace
Laboratories,
Bengaluru 560017,
Karnataka, India

XPS Data Analysis and Interpretation



Dr. Clinsha P.C

Scientific Officer - F
Materials Chemistry Division,
Materials Chemistry and Metal
Fuel Cycle Group,
Indira Gandhi Centre for Atomic
Research, Kalpakkam 603 102,
Tamil Nadu, India

PROGRAM SCHEDULE

09.00 am – 09.50 am	Registration
09.50 am – 10.15 am	Inauguration
10.15 am – 10.30 am	Photo Session & Refreshment
10.30 am – 11.30 am	Introduction to XPS and its application Dr. Parthasarathi Bera, Senior Principal Scientist, CSIR-NAL, Bangalore, Karnataka, India
11.45 am – 12.45 pm	XPS Data Analysis and Interpretation Dr. Clinsha, Scientific Officer - F, IGCAR, Kalpakkam, Tamil Nadu, India
01.00 pm – 02.00 pm	Lunch
02.00 pm – 04.00 pm	Instrumentation and Data Acquisition Dr. S. Anandh Jesuraj, Asst. Prof. - Research Dr. Gopika, Assistant Professor - Research Dr. Balaji, Assistant Professor - Research Sathyabama Institute of Science and Technology, Chennai, Tamil Nadu, India
04.10 pm – 04.30 pm	Valedictory and Certificate Distribution

ACCOUNT DETAILS

Account Name	Dean (Publications & Conferences), Sathyabama University
Account Number	891734627
Bank	Indian Bank (Thousand Lights)
IFSC Code	IDIB000T020
SWIFT Code	IDIBINBBTLT
Branch Code	098

ABOUT SATHYABAMA

Sathyabama Institute of Science and Technology (SIST) is a prestigious Institution that has excelled in Engineering, Science, and Technology for more than three successful decades. It is established under Sec. 3 of UGC Act, 1956, and has been accredited with 'A++' Grade by the National Accreditation and Assessment Council. The Institution has been Graded as a Category 'I' University by UGC under the UGC (Categorization of Universities (only) for Grant of Graded Autonomy) Regulations, 2018. The Institution has a team of dynamic and outstanding faculty and scientists, innovative pedagogical practices, state-of-the-art infrastructure and world-class Research Facilities. SIST has achieved good rankings and ratings at National and International level. Sathyabama Institute of Science & Technology has alliances with leading Universities and research establishments at National and International Level. It is a research-intensive University with world class laboratories and research facilities and is involved in research in the emerging areas of Science and Technology. SIST has undertaken various sponsored and collaborative R&D projects funded by National and International Organizations. SIST has emerged as a leading Institution and achieved excellence in higher education of international standards owing to its research and academic excellence.

ABOUT THE CENTRE FOR NANOSCIENCE AND NANOTECHNOLOGY

The Centre for Nanoscience and Nanotechnology was established in January 2006 at the University campus to accomplish the goal of enhancing advanced research in the areas of Nanoscience and Nanotechnology. **The Centre of Excellence for Energy Research**, a part of Centre for Nanoscience and Nanotechnology has been funded by the Ministry of Human Resource Development, Govt. of India in 2014. The leading area of research includes nanomaterials, nanotechnology, nanocomposites, nanoelectronics, solar photovoltaics, solid oxide fuel cells, thermal barrier coatings, supercapacitors etc. In addition to research, the Centre also conducts several training and awareness programmes, workshops national and international conferences on recent trends and developments on various themes of national interests. The Centre is undertaking research and development projects from various agencies and is offering consultancy services to industries and research organizations in India and abroad. The Centre has several sophisticated instruments such as HRSTEM, FESEM, XRD, XPS, Raman, AFM, Hall Effect measurement, UV-vis spectrometer, FTIR, EBPVD, RF/DC Magnetron sputtering, PLD, CVD, etc.



Website: www.centrefornanotechnology.com

CHIEF PATRONS

Dr. Mariazeena Johnson, Chancellor

Dr. Marie Johnson, President

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Mr. J. Arul Selvan, Vice President

Ms. Maria Catherine Jayapriya, Vice President

Mr. Akash, Vice President

PATRON

Dr. T. Sasipraba, Director (Innovation)

ORGANIZING SECRETARY

Dr. D. Dinesh Kumar Associate Professor & Head

CONVENERS

Dr. S. Anandh Jesuraj, Assistant Professor (Research)

Dr. G. Gopika, Assistant Professor (Research)

Dr. D. Balaji, Assistant Professor (Research)

ORGANIZING COMMITTEE

Mr. M. Thangam, Scientific Assistant

Mr. K. Dinesh, Project Associate

Contact Us

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