



**UNIVERSITY SCIENCE INSTRUMENTATION CENTRE**  
**BHARATHIDASAN UNIVERSITY**  
TIRUCHIRAPALLI- 620 024

**X-RAY PHOTOELECTRON SPECTROSCOPY (XPS) - REQUISITION FORM**

<b>Date</b>	
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<b>Name</b>	
<b>Designation</b>	
<b>Address for communication</b>	
<b>Mobile Number</b>	
<b>E-Mail</b>	
<b>Nature of applicant</b>	<input type="checkbox"/> Internal (BDU) <input type="checkbox"/> BDU- Affiliated <input type="checkbox"/> External Academic <input type="checkbox"/> Industry
<b>Number of samples</b>	
<b>Nature of samples</b>	<input type="checkbox"/> Thin Film <input type="checkbox"/> Pellet <input type="checkbox"/> Powder <input type="checkbox"/> Organic <input type="checkbox"/> Inorganic
<b>Sample property</b>	<input type="checkbox"/> Conductive <input type="checkbox"/> Non-conductive <input type="checkbox"/> Polymer <input type="checkbox"/> Semiconductor    Others: _____
<b>Type of Scan/ Measurements required</b>  (Survey & narrow scans are recommended)	<input type="checkbox"/> Survey Scan & Narrow Scan <input type="checkbox"/> Depth profiling <input type="checkbox"/> Mapping
<b>Elements to be identified</b>	
<b>Chemical Composition &amp; Molecular Formula</b>	

Analysis Details, if any			
Payment Details			
Draft/URN No.	Name of the Bank	Date	Amount ₹ (Incl.-18% GST)
Declaration: <ul style="list-style-type: none"> <li>I declare that samples described above are non-hazardous nature and possess no threat to health and welfare of person handling the said samples.</li> </ul>			
Signature of the applicant			

Forwarded & Recommended

(Name & Signature of Research Supervisor)  
(With date & seal)

Head of the Department/ Institution

**Note:** Submit a fresh CD/DVD along with this application form for data collection.

**Office use only**

Serial No : \_\_\_\_\_ Date of receipt of Sample : \_\_\_\_\_

No of Samples : \_\_\_\_\_ Date of analysis (Tentative) : \_\_\_\_\_

Date of completion : \_\_\_\_\_

Measurement mode : ☐ XPS Survey& Narrow Scan ☐ XPS+ Mapping  
☐ Depth profiling

Type of User : ☐ Internal- BDU ☐ BDU- Affiliated ☐ External Academic  
☐ Industry

Amount : ₹

**Remarks:**

**XPS - Faculty In-Charge**

**Signature of the Coordinator - USIC**

### X-RAY PHOTOELECTRON SPECTROSCOPY (XPS)

- ☛ Duly filled Requisition form signed by their Research Supervisor and forwarded through the Head of the Department/ Head of the Institution. The form should be submitted to the USIC Coordinator along with the samples.
- ☛ **Sample requirements:**
  1. **Solids/ Thin films** : 8 mm<sup>2</sup> in size, with 2 mm thickness
  2. **Powders** : a) Tightly packed pellets of 6 - 8 mm diameter with 2 mm thickness.  
b) **Powders / Nanomaterials pressed in Indium metal foil/ the ball is recommended.** If sample preparation needed user may need to pay additionally for sample preparation and Indium metal foil. For sample preparation minimum 20 mg of powders needed.
- ☛ Samples should be dry and clean. Well-prepared neat, clean and vacuum compatible samples will be accepted for the measurements.
- ☛ **No Liquid samples, Moist samples, and Volatile samples** shall be entertained.
- ☛ Samples should be solid, not outgassing in nature and not degrade under high vacuum.
- ☛ Samples containing Na, K, S, P, F, Zn, Pb, Bi, I, Se, As, Te and Hg **are not suitable** for **Depth profile analysis**.
- ☛ XPS measurements **cannot be done for samples containing Iodine, Sulphur.** However, Sulphur containing sample can be done if it is stable under vacuum.
- ☛ Submit a fresh CD/DVD along with the application form for data collection.
- ☛ **No pen drive shall be entertained.**
- ☛ Provide essential details like Molecular formula, Composition, and Elements present.



Users are requested to acknowledge [USIC-BDU & RUSA 2.0, Bharathidasan University](#) for the publication of the work. Acknowledged papers should be sent to this office by e-mail ([usic@bdu.ac.in](mailto:usic@bdu.ac.in)).

#### Note:

1. Submit a fresh CD/DVD along with the application form for data collection.
2. Payment details should be furnished.