

**University of Engineering & Technology, Lahore, Pakistan**  
**Centre for Nanotechnology and Advanced Materials Research (CNAMR)**  
**Department of Physics**  
**X-Ray Diffractometry**

Name: \_\_\_\_\_ Registration no: (for students): \_\_\_\_\_

Designation: \_\_\_\_\_ Name of Supervisor (if any): \_\_\_\_\_

Institute/Department: \_\_\_\_\_

Project title (if any): \_\_\_\_\_

Cell number: \_\_\_\_\_ E-mail: \_\_\_\_\_

Sample Type: Select one 

<input type="checkbox"/> Solid	<input type="checkbox"/> Powder	<input type="checkbox"/> Thin Film	<input type="checkbox"/> Coating
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Sample information: 

<input type="checkbox"/> Non-toxic	<input type="checkbox"/> Toxic	<input type="checkbox"/> Irritating	<input type="checkbox"/> Flammable	<input type="checkbox"/> Hazardous	<input type="checkbox"/> Don't know
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Any precaution needed: \_\_\_\_\_ Sample Material: \_\_\_\_\_

No. of samples: \_\_\_\_\_ Sample Identity: \_\_\_\_\_ Scan Range: \_\_\_\_\_

Sample shape and dimensions: \_\_\_\_\_ (in case of powder samples mention the mass)

- Note:** (i) Powder sample should be finely ground that can be easily compressed to fit into the sample mold.  
(ii) Only samples of the following dimensions are allowed.  
(a) Square samples.....Length x Width x Thickness (max.) = 2.5 cm × 2.5 cm × 0.4 cm  
(b) Disc shaped samples.....Diameter (max.) = 3.5 cm, Thickness (max.) = 0.4 cm  
(c) Thin Films...Flat samples.... Length x Width = 1x1 cm<sup>2</sup> (min.) to 5x5 cm<sup>2</sup> (max.)

Test required through XRD: 

<input type="checkbox"/> Powder diffraction	<input type="checkbox"/> Texture Analysis	<input type="checkbox"/> GIXD
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- Note:** Kindly provide packed rewritable new CD in order to acquire the data.
- Results of powder diffraction will be given in a text/excel file containing diffraction data and conditions.
  - In case of Texture analysis, a powder diffraction data will also be provided.
  - For GIXD (grazing incidence Xray diffraction) used for thin film, mention film thickness \_\_\_\_\_

Any other information about sample: \_\_\_\_\_

**Deposit Details: Habib Bank Ltd. (Engineering University Lahore Branch)**

Title: "UET LHR Center for Nanotechnology" Account number: 01287903194101

Paid challan form No. (Attach a copy of the paid challan form) \_\_\_\_\_

**Applicant's Signature**

**Supervisor's (if any) (Signature and Stamp)**

**Chairperson/Head/Director:**

**Incharge**

**Signature and Stamp**

**XRD Laboratory**

**Director CNAMR**

**Charges per sample:**

Sr. No.	Perspective Clients	Powder XRD (Quick scan)	Powder XRD (Slow scan)	Texture Analysis	GIXD
1.	University of Engineering & Technology, Lahore and allied campuses.	Rs. 700/-	Rs. 1000/-	Rs.3000	Rs. 1500/-
2.	Educational institutions.	Rs. 2000/.	Rs. 3000/-	Rs.5000	Rs. 3500/-
3.	Commercial samples (industries etc.)	Rs. 4000/.	Rs. 6000/-	Rs.10000	Rs. 7000/-

- The rates for XRD samples analysis with other special requirements will be decided by the Committee/Director