



# CENTRALIZED RESOURCE LABORATORY

## University of Peshawar

### ANALYTICAL FEE RATES

#### 1. MATERIAL ANALYSIS LABORATORY

Instrument	Specifications	UOP Users	Non-Funded Students	Funded Students	Private/Urgent Users
Transmission Electron Microscopy (TEM) Imaging	2 Images/ sample	3000/-	5000/-	6000/-	8000/-
EDX attached with TEM	1 EDX/ sample	1500/-	2500/-	3500/-	8000/-
Both TEM Imaging and EDX Analysis	Per sample	5000/-	6500/-	8000/-	16000/-
Scanning Electron Microscopy (SEM) imaging	2 Images/ sample	1000/-	1500/-	2500/-	4000/-
Energy Dispersive X-ray Spectroscopy (EDX) attached with SEM	1 EDX/ sample	1000/-	1500/-	2500/-	4000/-
Both SEM Imaging and EDX Analysis	Per sample	2000/-	3000/-	5000/-	8000/-
Universal Testing Machine (UTM)	Per Sample	1000/-	1500/-	2500/-	4000/-
X-ray Diffractometer (XRD)	Per hour	1000/-	1500/-	2500/-	4000/-
X-ray Fluorescence Spectrometer (ED-XRF)	Per Sample	1000/-	1500/-	2000/-	3000/-
Vibrating Sample Magnetometer (VSM)	Per Sample	1000/-	1500/-	2500/-	3000/-
Ultramicrotomy with sample preparation	Per Sample	600/-	1000/-	1500/-	3000/-
Ultramicrotomy (Sectioning only)	Per Sample	300/-	500/-	800/	2000/-
Ultrasonic cutting & dimpling for TEM	Per Sample	1000/-	1500/-	2000/-	4000/-
Ion milling	Per Sample	1000/-	1500/-	2000/-	4000/-

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#### 2. ANALYTICAL LABORATORY

Instrument	Specifications	UOP	Non-Funded Students	Funded Students	Private/Urgent Users
Atomic Absorption Spectrometer (AAS) Per sample/element	Acetylene Flame	150/-	200/-	400/-	1000/-
	Nitrous Oxide Flame	400/-	600/-	1000/-	1500/-
	Graphite Furnace	500/-	800/-	1000/-	1500/-
	Sample Processing (Per sample)	500/-	600/-	800/-	1000/-
	Gold Analysis (Sample preparation and analysis)	1500/-	2000/-	2500/-	3000/-
Flame Photometer (FPM)	Per sample/element	150/-	200/-	400	1000/-
	Sample Processing (Per sample)	500/-	600/-	800/-	1000/-
High-Performance Liquid Chromatography (HPLC) Per sample/ Substance	Simple/Complex/Acetonitrile Mobile Phase	1000/-	1500/-	2000/-	2500/-
Preparative HPLC Per sample/ Substance & Fraction collection	Simple/Complex/Acetonitrile Mobile Phase	1000/-	1500/-	2000/-	2500/-
Gas Chromatography (GC) Per sample/ Substance	Nitrogen Mobile Phase TCD/FID/FPD/ECD	1000/-	1500/-	2000/-	2500/-
Gas Chromatograph-Mass Spectrometer Per sample	Per sample	1800/-	3000/-	3500/-	5000/-
FT-IR	Per sample	400/-	600/-	1000/-	2000/-
UV-NIR Spectroscopy	Per sample	500/-	1000/-	1500/-	2000/-
UV-Visible Spectroscopy	Per sample	500/-	1000/-	1500/-	2000/-
UV- Visible Diffused Reflectance Spectroscopy	Per sample	500/-	1000/-	1500/-	2000/-
Fluorescent Spectroscopy (Fluorimetry)	Per sample	500/-	1000/-	1500/-	2000/-
Zetasizer	Zeta potential per sample	500/-	1000/-	1500/-	2000/-
	Particle size Per sample	500/-	1000/-	1500/-	2000/-

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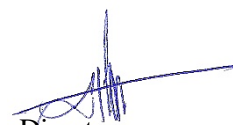
#### 3. THERMAL LABORATORY

Instrument	Specifications	UOP	Non-Funded Students	Funded Students	Private Users/Urgent
Simultaneous Thermal Analysis (STA) includes TGA, DTA & DSC	Up to 600°C	1000	1500	2000	4000
	Above 600°C, Per 100°C	100	150	200	500
Dynamic Mechanical Analyzer (DMA)	Per sample	1000	1500	2500	4000
Surface Area and Pore Size Analyzer	Per sample	1000	1500	2500	4000
Bomb Calorimeter	Per sample	1000	1500	2500	4000

#### 4. GENERAL FACILITIES

Instrument	Specifications	UOP	Non-Funded Students	Funded Students	Private Users/Urgent
Coating Gold & Silver	Per 5 samples	1000/-	1500/-	2000/-	3000/-
Coating Carbon, Aluminum	Per 5 samples	500/-	1000/-	1500/-	2500/-
Centrifugation up to 6000 RPM	Per Sample	100/-	200/-	300/-	500/-
Centrifugation above 6000 RPM	Per Sample	200/-	300/-	500/-	1000/-
Liquid Nitrogen	Per Litter	100/-	150/-	180/-	200/-
Calculation of Loss on Ignition (LOI)	Per Sample	700/-	1000/-	2000/-	2500/-
Determination of moisture	Per Sample	300/-	500/-	1100/-	1000/-
Determination of each pH/TDS/EC in aqueous solutions	Per Sample	150/-	250/-	400/-	1000/-
Viscosity	Per Sample	200/-	300/-	500/-	1000/-
Deionized Water	Per Litter	50/-	100/-	150/-	300/-
Rock Samples grinding	Per sample	200/-	250/-	350/-	500/-

Note: The new rates are applied to those applications received after the date of approval of the syndicate (date of notification July 14, 2023).

  
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