

Quaid-i-Azam University Islamabad

Available Research Equipment and Testing Facility

Department: **Chemistry**

Head of Department: **Prof. Dr. Amin badshah**

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Name of Equipment	Make/Year of Manufacturing	Name of Test	Method of Analysis	Min. duration required for analysis	Rate (Rs.) per sample
NMR 300 MHZ	Biospin Avance 2005	Proton	Chloroform & Benzene	Same day	Rs.2500/-
NMR 300 MHZ	Biospin Avance 2005	Proton	Other than above solvent	Same day	Rs.5000/-
NMR 300 MHZ	Biospin Avance 2005	Proton	Specific Solvent	Same day	Rs.7000/-
CHNS Analyzer	Mode-LECO 932, 2006	CHNS	<i>Oxi/Reduction Method</i>	Same day	<i>Rs.2000/-</i>
FT.IR	Thermo-2006			Same day	Rs.500/-

TGA.DTA	Mettler Tolloedo 2006			Same day	Rs.1000/-
DSC				Same day	Rs.2000/-
X-Ray Difectometer	PANAINTICAL 2006	Wax. Powder		One Week	Rs.1000/-
Tensile Testing Machine	TESTO METRIC U.K 2007		Tensile Testing	Same day	Rs.500/-
GC-MS	Agilent-2002	Flame Ionization Detector		One Week	Rs.5000/-
GC-MS	Agilent-2009	Basic Charges		Two days	Rs.15000/-
Elecgtrochemical Work Station	Ecochemie austria 2008	Basic Charges		One day	Rs.1000/-
LC-MS	Algilent-2009	Basic Charges		One day	Rs.10000/-
HPLC Analysis	Agilent-2009	DAD (Diod Array Detector)		One day	Rs.5000/-

Department: **Microbiology**

Head of Department: **Prof. Dr. Safia Ahmed**

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Name of Equipment	Make/Year of Manufacturing	Name of Test	Method of Analysis	Min. duration required for analysis	Rate (Rs.) per sample
FTIR	Tensor 2011	Infrared spectrum of absorption, emission, photoconductivity or Raman Scattering of a solid, liquid or gas.	Chloroform & Benzene	Same day	Rs.500/-
FTIR	PerkinElmer 2012	Infrared spectrum of absorption/transmittance		Same day	Rs.500/-
HPLC	Waters (breeze) 2006	Analyzing & purifying chemical compounds		Same day	Rs.4000/-
Spectroquant Pharo 100	Merck 2011	Water analysis (COD, BOD, PO ₄ , SO ₄ , NO ₂ , NO ₃ , NH ₄ , etc.		Two Days	<i>Rs.500 for each chemical</i>
Tensiometer	Kruss 2012	Measurement for surface tension		Same day	Rs.500/-

Spectrophotometer	Agilent 8453; 2005, PerkinElmer 2010	Quantitative analysis of compounds		Same day	Rs.50/-
GC	Agilent	FID and TCD		One Week	Rs.5000/-
Microbiological Equipment		Culture Sensitivity test/Antibacterial and antifungal activities of synthetic compounds		One week	Rs.1000/-
PCR, Electrophoresis, Gel DOC		Molecular Identification of Microbes, 16S/18S gene amplification, sequencing and phylogenetic analysis.		Two Weeks	Rs.10000/-
Water Testing		Chemical and Microbiological analysis		One Week	Rs.1500/-

Department: **Earth Sciences**

Head of Department: **Prof. Dr. M. Gulraiz Akhter**

Contact details: Phone: 0092-51 9064-2158 email:

Name of Equipment	Make/Year of Manufacturing	Name of Test	Method of Analysis	Min. duration required for analysis	Rate (Rs.) per sample
Gravimeter	autograde CG-5 SCINTREX, 2008	Sub-Surface Structure Investigation	Gravity Surveys	depending upon the area	Used only for Academic/Research
smart Se-24 Seismograph	Geometrics, 2006	do	Seismic Surveys	do	do
Micrologger	ROBERTSON, 2006	Hydrogeological Investigation	Hydrogeological Studies	One day per source well	do
Proton Magnetometer	Geometrics,2004	Sub-Structure Investigation	Magnetic Surveys	Depending Upon The Area	do
Syscal J-Switch-48	IRIS, 2004	do	sub-surface Lithology	do	do
Fluxgate Magnetometer	SCINTREX, 1977	do	Magnetic surveys	do	do

McSeis-1500	OYO, 1987	do	Seismic Surveys	do	do
Geo-Rader	OYO, 1987	do	Geological/Engg. Studies	do	do
Hydrologger	OYO, 1987	Hydrogeological Investigation	Hydrogeological studies at shallow depth	do	do
X-Ray Diffractometer	JEOL, 1987	Diffractogram of mineral structure	X-Ray diffraction of powder samples	2-3 Hours	do
X-Ray Spectrometer	JEOL, 1987	Qualitative & Quantitative Analysis	Standards calibration methods	3-4 Hours	do