

# INDIAN INSTITUTE OF TECHNOLOGY KANPUR

**Department of Chemical Engineering**

**PG RESEARCH LAB**

Room No- 302, NL-II, CHE, IITK, Kanpur-208016

Ph No-(0512)2596538, Mob-7607490023



## Booking Form

*For Users from outside IIT Kanpur*

<b>C</b>	<b>Booking No</b>		/C/	<b>Date</b>	for Office Use
<b>User Details</b>	Name			Mobile	
	Supervisor's Name			Email	
	Institute			Dept	

Instrument <i>(Please Select)</i>	User Charges (Rs.)			Maximum No of samples can be analysed per slot	Total no of samples to be analysed	No of Slot	Net Charge (Rs)
	Industries	Academics					
FESEM / EDX	3000	1000	per slot ( 01 hr)	5			
TGA	2000	800	per sample (3 hr)	NA			
DSC	2000	800	per sample(3 hr)	NA			
XRD Powder	500	300	per sample	NA			
MVA	500	200	per sample	NA			
UTM	500	200	per sample	NA			
Autosorb iQ	5000	2500	per sample	NA			
ICPMS	10000	6000	per 15 sample	15			
MPIV	2000	1000	per slot (03 hr)	3			
Sputter Coater	1000	200	per 06 sample	6			
Polarization Microscopy	500	100	per sample	NA			
Fluorescence Microscopy	500	100	per sample	NA			
Heating Stage Microscopy	500	100	per sample	NA			
RTPCR	1000	400	per slot (02 hr)	NA			
Ultra Microtome	800	400	per sample	NA			
STEM Detector	800	400	per sample	NA			
Nano-IR	800	400	per sample	NA			
Electrospinning Unit	2000	1000	per slot( 02 hr)	NA			
Ion Chromatography	4000	3000	per sample	NA			

**\*\*Please use separate form for different Instrument**

<b>DD Details</b>	Bank Name			Branch	
Amount	DD No			Favour of	
	Date			Payable at	

For Online payments			
Bank Name		Txn Date	
Branch			
Reference/Transaction No.			
			User Name
			Signature of User

**For office use**

Experiment Specifications and Parameters	Log Book Page No
	REG-

<b>Kindly transfer Rs</b>	<b>to account no LDA/IITK /CHE /2024520 against DD No/Online transaction number</b>
<b>In favour of "The Registrar, IIT Kanpur"</b>	
<b>payable at Kanpur</b>	<b>Dated</b>

PGRL Staff Signature
----------------------

INDIAN INSTITUTE OF TECHNOLOGY KANPUR  
Department of Chemical Engineering  
PG RESEARCH LAB



Room No- 302, NL-II, CHE, IITK, Kanpur-208016

Ph No-(0512)2596538, Mob-7753058603

<b>Booking No</b>	/C/	<b>Date</b>	for Office Use
-------------------	-----	-------------	----------------

## Experiment Specifications and Sample Details

<b>FESEM</b>	Maximum Magnification Required	Minimum Magnification Required
<b>Sample Name &amp; Specification for EDX</b> Write elements name you want to detect.		

<b>TGA/DSC</b>	Sample Name	Experiment specifications	
Other Details		Purge gas	
		Maximum Temperature	
		Rate of increase(°C/min)	
		No of Cycles (DSC)	
	Cool Down Temp Between Cycles		

<b>XRD</b>	Start Angle	<b>Please Check to confirm sample requirements-</b>	
	End Angle	Sample is dry completely	<input type="checkbox"/>
	Scan Rate	Sample is in Powder form	<input type="checkbox"/>

<b>MVA</b>	Please Select Type		Please Select Part >	Multi Chann	Single Channel
	Cyclic Voltametry	CV	Voltage Range		
	Linear Sweep voltametry	LSV	Scan rate (V/s)		
	Differential Pulse Voltametry	DPV	Pulse		
	Chrono Experiments	CHR	Electrolyte for RE		
	Frequency Response Analysis	FRA	RE Type		
	Hydrodynamic (except FRA)	RDE			

<b>UTM</b>	Please Select Type of Test		Sample ID	Sample Dimension	No of Samples
	Compressive Strength				
	Tensile Strength				
	With Temperature				
	Test Speed (mm/min)		Pre-Load (N)	Total No of samples	
	Maximum Test Force (N)		Max Allowable Deformation (%)		
	Temperature		Ramp	Hold Time	

<b>ICPMS</b>	<b>Please Check to confirm sample requirements-</b>		<b>Sample ID</b>	
	Sample and Calibration standards are diluted to < 500 ppb Sample and Calibration standards are prepared in Millipore Water Sample and Calibration standards are acidified to give 2% HNO <sub>3</sub> final conc. Suprapure grade HNO <sub>3</sub> is used to acidify Sample and Calibration standards are filtered with ≤ 0.22 μm filter			
			<b>Element (s)</b>	

MPIV		Data to be filled by User	
Name of Sample		No of Sample	
Specification of sample			
Other details (if any)			

Sputter Coater		Experiment specifications	
Sample Name		Type of Sample (Powder / solid/membrane / metal plate / others)	
		Target available	Gold(Au)
Coating Parameters	Thickness based	nanometer/angstrom	Other details (if any)
	Time based	Minutes/Seconds	

Polarization Microscope	Fluorescence Microscopy	Heating Stage Microscopy	
Data to be filled by User			
Type of Sample		No of Sample	
Material of sample			
Other details (if any)			
Modes Of Experiment	Bright Field: YES/NO	For Peltier Stage (Linkam)	(Available range -40 to 120°C)
	Dark Field: YES/NO	Initial Temperature	
	Fluorescence: YES/NO	Maximum Temperature	
	Polar: YES/NO	Ramp(°C/min)	
	DIC Prism: YES / NO	Other Detail (If Any)	

Real Time PCR		Data to be filled by User	
Name of Sample		No of Sample	
Specification of sample			
Other details (if any)			
Consumable Details (if provided by PGRL)	Consumable Details	Prices	
	Optical Plate	Rs. 988	
	Adhesive cover	Rs. 302	

Ultra Microtome			
Data to be filled by User			
Type of Sample		No of Sample	
Material of sample			
Other details (if any)			
Available Knives used in an ultramicrotome to cut ultrathin slices of samples for electron and light microscope applications)	(Glass knives are →	1. Belgium Glass Knives	Grid(Copper) Details (100-300 mesh grid commonly used) ↓
Required ultrathin sections thickness (20 to 150 nm thick)	→		

STEM Detector			
Data to be filled by User			
Name of Sample		No of Sample	
Specification of sample			
Other details (if any)		Required Copper(Cu) Grid / Mesh standard for STEM (Standard TEM grid is placed into the specimen holder of the detector.)	3.05mm
	Note: Sample should be prepared as per TEM standard		

Nano IR			
Data to be filled by User			
Name of Sample		No of Sample	
Specification of sample			
Other details (if any)			

Electrospinning Unit			
Data to be filled by User			
Name of Sample		No of Sample	
Specification of sample			
Other details (if any)			

Ion Chromatography (IC)			
Data to be filled by User			
Name of Sample		No of Sample	
Specification of sample			
Other details (if any)			