

**INSTITUTE INSTRUMENTATION CENTRE**  
**INDIAN INSTITUTE OF TECHNOLOGY ROORKEE, ROORKEE-247667**  
**LAB FEE/TESTING CHARGES FOR VARIOUS ANALYTICAL INSTRUMENTS (Sept 2026)**

**Note: For external users in addition to the charges, GST @ 18.0% will be charged extra.**

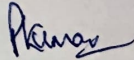
**Kindly mention email id and mobile number in the application form.**

| S. No. | Name of Equipment                                             |                  | External Users<br>[in addition to the charges, GST @ 18.0% will be charged extra] |                                                |                                                |
|--------|---------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|
|        |                                                               |                  | Educational Institutes<br>(In ₹)                                                  | Govt. R&D Labs<br>(In ₹)                       | Industry<br>(In ₹)                             |
| 1)     | FE-SEM                                                        |                  | 3,000/- per slot (1.5 hrs)<br>(Max. 4 samples)                                    | 4,500/- per slot (1.5 hrs)<br>(Max. 4 samples) | 6,000/- per slot (1.5 hrs)<br>(Max. 4 samples) |
| 2)     | Gold/Carbon coating                                           |                  | --                                                                                | --                                             | --                                             |
| 3)     | FE-SEM sample preparation using<br>Critical Point Dryer (CPD) |                  | 1,000/- per run                                                                   | 1,000/- per run                                | 2,000/- per run                                |
| 4)     | EBSD Scan in FE-SEM (Apero)                                   |                  | 3,000/- per scan<br>(Max. 8 hrs)                                                  | 6,000/- per scan<br>(Max. 8 hrs)               | 20,000/- per scan<br>(Max. 8 hrs)              |
| 5)     | TEM                                                           |                  | 3,750/- per slot (1.5 hrs)                                                        | 3,750/- per slot (1.5 hrs)                     | 6,000/- per slot (1.5 hrs)                     |
| 6)     | SPM (AFM)                                                     |                  | 1500/- per slot (1.5 hrs)                                                         | 1,500/- per slot (1.5 hrs)                     | 3,000/- per slot (1.5 hrs)                     |
| 7)     | WD-XRF                                                        |                  | 1,500/- per sample                                                                | 2,500/- per sample                             | 4,000/- per sample                             |
| 8)     | WD-XRF sample preparation using fusion bead                   |                  | --                                                                                | --                                             | --                                             |
| 9)     | Mol. Crystal Unit (MCU)                                       |                  | 2,000/- per sample                                                                | 2,000/- per sample                             | 5,000/- per sample                             |
| 10)    | MCU (ITC)                                                     |                  | 1,000/- per sample                                                                | 1,000/- per sample                             | 2,500/- per sample                             |
| 11)    | Powder XRD                                                    |                  | 800/- per sample                                                                  | 1,000/- per sample                             | 2,000/- per sample                             |
| 12)    | Thin Film XRD                                                 |                  | 1,000/- per sample                                                                | 1,500/- per sample                             | 4,000/- per sample                             |
| 13)    | Thin Film XRD ( Pole Figure)                                  |                  | --                                                                                | --                                             | --                                             |
| 14)    | DTA/TGA                                                       |                  | 1,000/- per sample                                                                | 1,500/- per sample                             | 3,000/- per sample                             |
| 15)    | FLS                                                           |                  | 200/- per sample                                                                  | 500/- per sample                               | 1000/- per sample                              |
| 16)    | MPAES                                                         |                  | 1,000/- per sample                                                                | 1,500/- per sample                             | 3,000/- per sample                             |
| 17)    | LC-ICPMS                                                      |                  | 1,500/- per sample                                                                | 2,000/- per sample                             | 4,000/- per sample                             |
| 18)    | Microwave Sample Digestion                                    |                  | 2,000/- per sample                                                                | 2,500/- per sample                             | 3,000/- per sample                             |
| 19)    | ICPMS-MS                                                      | Up to 5 elements | 1,400/- per sample                                                                | 1,400/- per sample                             | 3,000/- per sample                             |
|        |                                                               | Above 5 elements | 100/- for every additional<br>element                                             | 100/- for every additional element             | 200/- for every additional element             |

|     |                                      |                           |                                                                                                                                                                 |                                                                                                                                                                  |                                                                                                                                                                  |
|-----|--------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20) | XPS<br>(Survey and elemental scan)   | Up to 5 elements / sample | 2,500/-                                                                                                                                                         | 2,500/-                                                                                                                                                          | 4,000/-                                                                                                                                                          |
|     |                                      | Above 5 elements / sample | 300/- for every additional element                                                                                                                              | 300/- for every additional element                                                                                                                               | 500/- for every additional element                                                                                                                               |
|     | XPS (Depth profiling)                | Up to 5 elements / sample | 3,000/-                                                                                                                                                         | 3,000/-                                                                                                                                                          | 6,000/-                                                                                                                                                          |
|     |                                      | Above 5 elements / sample | 300/- for every additional element                                                                                                                              | 300/- for every additional element                                                                                                                               | 500/- for every additional element                                                                                                                               |
|     | XPS (UPS)                            | per sample                | 2,000/-                                                                                                                                                         | 2,000/-                                                                                                                                                          | 3,000/-                                                                                                                                                          |
| 21) | PPMS                                 | 0.5 day (12 hours)        | 4,300/-                                                                                                                                                         | 4,300/-                                                                                                                                                          | 6,500/-                                                                                                                                                          |
|     |                                      | 1 day (24 hours)          | 6,500/-                                                                                                                                                         | 6,500/-                                                                                                                                                          | 10,750/-                                                                                                                                                         |
|     |                                      | 2 days (48 hours)         | 10,750/-                                                                                                                                                        | 10,750/-                                                                                                                                                         | 16,000/-                                                                                                                                                         |
| 22) | SQUID                                | 0.5 day (12 hours)        | 4,300/-                                                                                                                                                         | 4,300/-                                                                                                                                                          | 6,500/-                                                                                                                                                          |
|     |                                      | 1 day (24 hours)          | 6,500/-                                                                                                                                                         | 6,500/-                                                                                                                                                          | 10,750/-                                                                                                                                                         |
|     |                                      | 2 days (48 hours)         | 10,750/-                                                                                                                                                        | 10,750/-                                                                                                                                                         | 16,000/-                                                                                                                                                         |
| 23) | VSM                                  | 4 hours                   | 2,000/-                                                                                                                                                         | 2,000/-                                                                                                                                                          | 3,000/-                                                                                                                                                          |
|     |                                      | 8 hours                   | 4,000/-                                                                                                                                                         | 4,000/-                                                                                                                                                          | 6,000/-                                                                                                                                                          |
|     |                                      | 16 hours                  | 8,000/-                                                                                                                                                         | 8,000/-                                                                                                                                                          | 12,000/-                                                                                                                                                         |
| 24) | NMR*                                 |                           | 700/- per hour per sample<br>(Proton NMR)<br>1000/- per hour per sample<br>( <sup>13</sup> C/ <sup>31</sup> P NMR)<br>1500/- per hour per sample<br>(Any Other) | 1000/- per hour per sample<br>(Proton NMR)<br>1500/- per hour per sample<br>( <sup>13</sup> C/ <sup>31</sup> P NMR)<br>2000/- per hour per sample<br>(Any Other) | 2000/- per hour per sample<br>(Proton NMR)<br>3000/- per hour per sample<br>( <sup>13</sup> C/ <sup>31</sup> P NMR)<br>4000/- per hour per sample<br>(Any Other) |
| 25) | EPR                                  | RT                        | 500/- per sample                                                                                                                                                | 1,000/- per sample                                                                                                                                               | 1,500/- per sample                                                                                                                                               |
|     |                                      | LT                        | 1,000/- per sample                                                                                                                                              | 1,500/- per sample                                                                                                                                               | 3,000/- per sample                                                                                                                                               |
|     |                                      | VT                        | 1,500/- per sample                                                                                                                                              | 2,000/- per sample                                                                                                                                               | 4,500/- per sample                                                                                                                                               |
| 26) | UV-Vis-NIR spectrophotometer         |                           | 1,000/- per slot (1 hr)                                                                                                                                         | 1,500/- per slot (1 hr)                                                                                                                                          | 3,000/- per slot (1 hr)                                                                                                                                          |
| 27) | MALDI-TOF/TOF                        |                           | 2,000/- per sample<br>(Including Matrix)                                                                                                                        | 2,000/- per sample<br>(Including Matrix)                                                                                                                         | 5,000/- per sample<br>(Including Matrix)                                                                                                                         |
| 28) | Circular Dichroism (CD) Spectroscopy |                           | 500/- per sample                                                                                                                                                | 1,000/- per sample                                                                                                                                               | 1,500/- per sample                                                                                                                                               |
| 29) | LN <sub>2</sub> Plant                |                           | 50/- per litre                                                                                                                                                  | 50/- per litre                                                                                                                                                   | 100/- per litre                                                                                                                                                  |

\*(Including Solvents CDCl<sub>3</sub>, DMSO-D<sub>6</sub>, D<sub>2</sub>O), ₹300 extra per sample for any other solvent

Note: For external users in addition to above charges, GST @ 18.0% will be charged.

  
(Prof. Pravindra Kumar)  
Head, IIC

**Name of equipment and contact person details:**

| S. No. | Name of Equipment                             | Contact Person                             | Tel. 01332-28XXXX | Email                                                                                                                                                          |
|--------|-----------------------------------------------|--------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1)     | TEM                                           | Mr. Amit K. Sharma                         | 4922              | <a href="mailto:amit.mic2019@iitr.ac.in">amit.mic2019@iitr.ac.in</a>                                                                                           |
| 2)     | FE-SEM, Gold/carbon coating, CPD              | Dr. Shriniwas Yadav<br>Mr. Amit K. Sharma  | 4560<br>4922      | <a href="mailto:shriniwas.mic@iitr.ac.in">shriniwas.mic@iitr.ac.in</a><br><a href="mailto:amit.mic2019@iitr.ac.in">amit.mic2019@iitr.ac.in</a>                 |
| 3)     | UV-Vis NIR spectrophotometer                  | Dr. Shriniwas Yadav                        | 4560              | <a href="mailto:shriniwas.mic@iitr.ac.in">shriniwas.mic@iitr.ac.in</a>                                                                                         |
| 4)     | PPMS, SQUID, VSM                              | Prof. Vivek K. Malik<br>Dr. Vipin Chawla   | 4812<br>4580      | <a href="mailto:vivek.malik@ph.iitr.ac.in">vivek.malik@ph.iitr.ac.in</a><br><a href="mailto:vipin.mic@iitr.ac.in">vipin.mic@iitr.ac.in</a>                     |
| 5)     | XPS, SPM (AFM)                                | Dr. Vipin Chawla                           | 4580              | <a href="mailto:vipin.mic@iitr.ac.in">vipin.mic@iitr.ac.in</a>                                                                                                 |
| 6)     | Mol. Crystal Unit (MCU), ITC                  | Prof. Pravindra Kumar<br>Dr. Jay S. Meena  | 5072<br>5779      | <a href="mailto:pravindra.kumar@bt.iitr.ac.in">pravindra.kumar@bt.iitr.ac.in</a><br><a href="mailto:jsmeena.mic2018@iitr.ac.in">jsmeena.mic2018@iitr.ac.in</a> |
| 7)     | XRF, Powder XRD                               | Mr. Ravindra Saini<br>Mr. Devendra Sharma  | 6272<br>6302      | <a href="mailto:ravis.mic2014@iitr.ac.in">ravis.mic2014@iitr.ac.in</a><br><a href="mailto:deva7830@gmail.com">deva7830@gmail.com</a>                           |
| 8)     | Thin Film XRD, XRD (Pole Figure)              | Dr. Shriniwas Yadav<br>Mohd. Danish        | 6272<br>6302      | <a href="mailto:shriniwas.mic@iitr.ac.in">shriniwas.mic@iitr.ac.in</a><br><a href="mailto:danish.iic2019@iitr.ac.in">danish.iic2019@iitr.ac.in</a>             |
| 9)     | DTA/TGA                                       | Mr. Ravindra Saini<br>Mr. Kushagra         | 6272<br>6302      | <a href="mailto:ravis.mic2014@iitr.ac.in">ravis.mic2014@iitr.ac.in</a><br><a href="mailto:kushagra.mic@iitr.ac.in">kushagra.mic@iitr.ac.in</a>                 |
| 10)    | NMR, EPR, CD, FLS, MALDI-TOF/TOF              | Dr. Jay S. Meena<br>Mr. Deepak Kumar       | 5779              | <a href="mailto:jsmeena.mic2018@iitr.ac.in">jsmeena.mic2018@iitr.ac.in</a><br><a href="mailto:deepak.mic@iitr.ac.in">deepak.mic@iitr.ac.in</a>                 |
| 11)    | MPAES, ICPMS-MS, LC-ICPMS, Microwave Digester | Mr. Kamal S. Gotyan<br>Dr. Shriniwas Yadav | 5384<br>4560      | <a href="mailto:kamalsic@iitr.ac.in">kamalsic@iitr.ac.in</a><br><a href="mailto:shriniwas.mic@iitr.ac.in">shriniwas.mic@iitr.ac.in</a>                         |
| 12)    | Liq. N <sub>2</sub>                           | Mr. Kamal S. Gotyan<br>Mr. Surjeet         | 5384              | <a href="mailto:kamalsic@iitr.ac.in">kamalsic@iitr.ac.in</a><br><a href="mailto:surjeet.mic@iitr.ac.in">surjeet.mic@iitr.ac.in</a>                             |