**Rheometer**

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| https://lh7-rt.googleusercontent.com/docsz/AD_4nXfGFtUF883ADSaCzY7AMEfGFiWbFbGte2yfhj4GFQ0h9J02KONCrNUM2IB0EwLHQp0RCEm3cgQUGIPG32mn-aUR8WCXn1m38qQtXwshfCgeBfAXd6ludPo9aWon2hc5iCeWlHUNBsNQG6L_-CKpn8WaaWcAAzhqeVazRNf12UUHI9KPBSnLAw?key=OJp-hHYVWzLai4BFePm5F3Ix | **Name of the equipment:** Rheometer**Make & Model:**Anton Paar & MCR 102 & MRD170/T**I-Stem Registration ID-** 3224914**Category of Instrument**Characterization and Testing Tool**Types of Analysis / Testing**Testing**Application:** Friction and Wear characteristics of Ball Samples |

**Booking Details**

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| --- | --- |
| **Book through I-STEM:** <https://www.istem.gov.in/>**Slot Booking Link**[I-STEM Slot Booking link for External User](https://www.istem.gov.in/equipment-info/24914/Rheometer-and-accessories) | **Booking available for**Internal and External Both**Requisition form for** InternalsExternals |

**Contact Details**

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| **Faculty In-charge:** Dr.Amit Kumar Singh**Email ID:**amitsingh@nitc.ac.in**Phone number:** +91-8949362395 | **Technical Staff:**Shibin (Senior Technician) shibinr@nitc.ac.inMuhammed Rasheed K (TA) muhammedrasheed@nitc.ac.in | **Department**MED**Office Email ID**medoffice@nitc.ac.in**Location**Room No. 101 MSED Department Building**Lab Phone No**0495-2286485 |

**Description and Technical Specifications**

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| --- | --- |
| **Description of Instrument:** This instrument is used to measure the way in which a viscous [fluid](https://en.wikipedia.org/wiki/Fluid) [flows](https://en.wikipedia.org/wiki/Fluid_dynamics) in response to applied forces. |  |
| **Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)**

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| --- | --- |
| Min Torque Rotation  | 5nNm |
| Max Torque | 200nNm |
| Max Speed  | 314rad/s |
| Normal Force Range  | 0.01 to 50N |

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**User Charges Rs. (GST Extra)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Internal** | **External Academic Institutes** | **National R&D Lab** | **Industry** |
| 100/- per hour per sample (i.e. If the time taken to test a sample exceeds 1 hr then the user charge will be based on per hour) | 500 + 18%GST per hour per sample (i.e. If the time taken to test a sample exceeds 1 hr then the user charge will be based on per hour) | 500 + 18%GST per hour per sample (i.e. If the time taken to test a sample exceeds 1 hr then the user charge will be based on per hour) | 1000 + 18%GST per hour per sample (i.e. If the time taken to test a sample exceeds 1 hr then the user charge will be based on per hour) |