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| https://lh7-rt.googleusercontent.com/docsz/AD_4nXcUa5OWAOnc3IciKeElioL-6r5qkm9jgz8Oab4Mhr_kz3x_EyY23aEVEIQtr7g7jdDkPegjCbmhwspG3LAN9szQ-rHDvD9cSrhmXNgxcV3GDwsAEZavDYknlBxj9gZW5VsbumlVtVnrsysnl6Rvgm_nZz5f2s92vREdhMLodekNn0BWypnVmF0?key=dzS704v0uzhgVyfNHQErQg | **Machinery Fault Simulator**  **Name of the equipment:**  Machinery Fault Simulator  **Make & Model:**  Spectra Quest Inc USA & MFSS2010  **I-Stem Registration ID-**  3236735  **Category of Instrument**  Controller  **Types of Analysis / Testing**  Controlling and Testing  **Application:**  Controlling, Testing and Measuring Tool |

**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/36735/Machinery-Fault-Simulator-and-Accessories) | **Booking available for**  Internal and External Both  **Requisition form for**  Internals  Externals |

**Contact Details**

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| **Faculty In-charge:**  Dr.Ashesh Saha  **Email ID:**  [ashesh@nitc.ac.in](mailto:bgnair@nitc.ac.in)  **Phone number:**  +91-9451545350 | **Technical Staff:**  Shibin (Senior Technician) [shibinr@nitc.ac.in](mailto:sandhyadevism@nitc.ac.in) | **Department**  MED  **Office Email ID**  [medoffice@nitc.ac.in](mailto:sbtoffice@nitc.ac.in)  **Location**  Room No. DB 118 Machine Dynamics Lab II  **Lab Phone No**  ………………………………. |

**Description and Technical Specifications**

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| **Description of Instrument:** Machinery Fault Simulator is used for studying signatures of common machinery faults. The system reflects a modular design that provides versatility, operational simplicity and robustness. Each component of the simulator is machined to high tolerances so it can be operated without any significant conflicting vibrations so that user can introduce various faults either individually or jointly in a totally controlled environment. |  |
| **Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)**   |  |  | | --- | --- | | RPM Range | 0 to 600 rpm | | Shaft Diameter | ¾” diameter, TPG Steel | | Rotors | Two 6” aluminium with 36 threaded holes | | Instrumentation Connectors | 16 BNC connectors | |  |

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

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| **Internal** | **External Academic Institutes** | **National R&D Lab** | **Industry** |
| 200/- 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) | 300 + 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) | 300 + 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) | 800 + 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) |