**Booking Details**

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| https://lh7-rt.googleusercontent.com/docsz/AD_4nXd-QoaXXRGRVqcBceVJCXat5Plz11fK-9K1awrT5S9jmEmd98-gw8aq3qmAE5BeGJXHMFr3FhoRgcqhHXYfuaYU5MggjLIrxtjkPqIHBRM1TpBWx0GGe7_NonGc-jdCUEUNHrIrYqvy4rNqwuO9OyuNAqza8dFDGVKGwXTdcA?key=Q9vI_j7PDmeg2U4U1CrnFz9U | **CNC TURNING CENTER**  **Name of the equipment:**  CNC TURNING CENTER  **Make & Model:**  Ace Micromatics- Jober LM  **I-Stem Registration ID-**  **3224893**  **Category of Instrument**  Advanced Manufacturing  **Types of Analysis / Testing**  Machining  **Application:**   * Prototyping & Product Development * Precision Component Manufacturing   **Description of Instrument**   CNC machining of complex geometries using codes written explicitly or generated by using Master cam software. |

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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/24893/CNC-Turning-Centre) | **Booking available for**  Internal and External Both  **Requisition form for**  [Internals](https://randc.nitc.ac.in/pdf/instruments/med/20.%20Internal.pdf)  [Externals](https://randc.nitc.ac.in/pdf/instruments/med/20.%20External.pdf) |

**Contact Details**

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| **Faculty In-charge:**  Dr. Basil Kuriachen  **Email ID:**  [bk@nitc.ac.in](mailto:bk@nitc.ac.in)  **Phone number:**  +91-9947187133 | **Technical Staff:**  Mr. Unni Krishnan(TA )  kishan@nitc.ac.in | **Department**  MED  **Office Email ID**  [medoffice@nitc.ac.in](mailto:medoffice@nitc.ac.in)  **Location**  FIST LAB, CAD/CAM CENTRE, Department of Mechanical Engineering  **Lab Phone No**  0495 228 6476 |

**Features, Working Principle and Specifications**

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| **Features of the equipment**   * Siemens/Mitsubishi CNC Control – User-friendly interface with G-code programming. * Automatic Tool Turret – Typically 8–12 stations for quick tool changes * Hydraulic or Servo Chuck – For secure workpiece clamping | **Unique features/Measurement capabilities, if any**   * Allows complex features like cross-holes, flats, and keyways in a single setup * High-Speed Machining (HSM) Capabilities * Enhanced Chip & Coolant Management |
| **Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)**   * OD Turning Tool Size 25×25 * X-axis Stroke 165mm * Z-axis Stroke 400mm   Spindle Speed 3500rpm | **Measurement/Sample specifications:**  Metallic/composite/alloys etc |

**Type of Sample Required for Analysis / Testing (Quantity, Pre-Preparation, State etc.) Guidelines for Sample Submission – User Instructions**

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| * Quantity: * Sample Type: Metallic/composite/alloys etc * Pre-preparation: * Maximum No. of Samples Accepted at a Time- 2 * Minimum No of Days Required for Analysis – 1 |

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

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| **Internal** | **External Academic Institutes** | **National R&D Lab** | **Industry** |
| 200/hour | 200 + 18%GST  Rs. 236 | 200 + 18%GST  Rs. 236 | 200 + 18%GST  Rs. 236 |