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| https://lh7-rt.googleusercontent.com/docsz/AD_4nXd9XNtuFgMHsCoKdHBJeA3NQgikRYuwLW9kIUdCW1_V26bo_l-9gqwzZtMDIZj0lj7HC3Es22u3SJDTWYznTMQc_FRrvaesBYuHekauBKbQfBM4I7mbzXsSzVyvQ6l1eDXRByX4wCH0dlis0jnR3vQ25_gWYiKYnltd0mLSCobEbMDMMdhXBg?key=cixtZ1z9kL56ETm_jLAJR-A1 | **KINOVA GEN3 ROBOT**  **Name of the equipment:**  KINOVA GEN3 ROBOT  **Make & Model:**  KINOVA , CANADA GEN 3 & C-45652  **I-Stem Registration ID-**  **3236734**  **Category of Instrument**  (Advanced Manufacturing facility / Characterization and Testing / Computational Facility / Bioscience and Technology / Sample preparation)  **Types of Analysis / Testing -** NA  **Application:**   1. Used for material handling. 2. Robotic welding and machine vision. 3. C NC machine tending and other FMS operation.   **Description of Instrument**  The KINOVA Gen3 is a versatile and reliable robot manipulator for industrial robotics training and education. |

**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/36734/Kinova-Gen3-6-DoF-Robotic-Arm-Kit) | **Booking available for**  Internal and External Both  **Requisition form for**  Internals  Externals |

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| **Faculty In-charge:**  Dr. Sudheer A P  **Email ID:**  [apsudheer@nitc.ac.in](mailto:apsudheer@nitc.ac.in)  **Phone number:**  +91-9961450987 | **Contact Details**  **Technical Staff:**  Mr. Sasi K K  [kksasi@nitc.ac.in](mailto:kksasi@nitc.ac.in)  9447635438  Mr. Robin M D  [robinmd@nitc.ac.in](mailto:robinmd@nitc.ac.in)  8281045855 | **Department**  MED  **Office Email ID**  [medoffice@nitc.ac.in](mailto:medoffice@nitc.ac.in)  **Location**  Mechatronics/Robotics laboratory CAD/CAM Centre Building  **Lab Phone No**  ………………………………. |

**Features, Working Principle and Specifications**

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| **Features of the equipment**   1. Mimics human arm movement for enhanced flexibility. 2. High accuracy for delicate task. 3. Torque sensors in every joint. 4. Collision Detection and instant stop. | **Unique features/Measurement capabilities, if any**   1. Research and medical-grade precision 2. Plug and play autonomy 3. Advanced gripper option 4. Real- time force and torque sensing 5. Cloud and IoT ready |
| **Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)**   1. 6 degree of freedom 2. Operating radius of 891 mm 3. Weight of instrument is 7.2 Kg and maximum Payload of 4 KG | **Measurement/Sample specifications:**   * NA |

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

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| * NA |

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

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| **Internal** | **External Academic Institutes** | **National R&D Lab** | **Industry** |
| 1000/- per hour | 1000+ 18% GST per hour | 1000+ 18% GST per hour | 1000+ 18% GST per hour |