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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** InternalsExternals |

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| **Faculty In-charge:** Dr. Sudheer A P**Email ID:**apsudheer@nitc.ac.in**Phone number:** +91-9961450987 | **Contact Details****Technical Staff:** Mr. Sasi K K kksasi@nitc.ac.in 9447635438Mr. Robin M Drobinmd@nitc.ac.in 8281045855 | **Department**MED**Office Email ID**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
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**Type of Sample Required for Analysis / Testing (Quantity, Pre-Preparation, State etc.) Guidelines for Sample Submission – User Instructions**

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| * NA
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**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 |