**Universal Testing machine 1000 KN**

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|  | **Name of the equipment:**  Universal Testing machine 1000 KN  **Make & Model:**  Bluestar. & UTE 2001  **I-Stem Registration ID-**  3220833  **Category of Instrument**  Characterization and Testing  **Types of Analysis / Testing**  Shear , Flexure etc  **Application:**  It has to be planned based on the need  **Description of Instrument**  This machine is set to perform shear & flexure tests. |

**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/20833/Universal-Testing-Machine--UTM--1000-kN-Capacity) | **Booking available for**  Internal and External Both  **Requisition form for**  [Internals](https://randc.nitc.ac.in/pdf/instruments/civil/CED-REQUISITION_FORM_Internal.pdf)  [Externals](https://randc.nitc.ac.in/pdf/instruments/civil/CED-REQUISITION_FORM_Internal.pdf) | | |  |  | | --- | --- | | **Book through I-STEM:**  Internal and External Both  **Slot Booking Link**  [Internals](https://randc.nitc.ac.in/pdf/instruments/civil/CED-REQUISITION_FORM_Internal.pdf)  [Externals](https://randc.nitc.ac.in/pdf/instruments/civil/CED-REQUISITION_FORM_Internal.pdf) | **Booking available for**  Internal and External Both  **Requisition form for**  [Internals](https://randc.nitc.ac.in/pdf/instruments/civil/CED-REQUISITION_FORM_Internal.pdf)  [Externals](https://randc.nitc.ac.in/pdf/instruments/civil/CED-REQUISITION_FORM_Internal.pdf) | |

**Contact Details**

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| **Features of the equipment**   * Rigid and stable frame suitable for testing structural elements such as beams, columns, and reinforcement bars. * Provides support for both instructional laboratory experiments and research-based analysis. * Capable of applying large loads uniformly and accurately. * Simple hydraulic operation with manual controls for ease of use. * Suitable for various loading configurations depending on the structural element under test. | | **Unique features/Measurement capabilities, if any**   * Specially designed for **testing full-scale or scaled-down structural members** (beams, columns, bars). * Accurate load application and measurement up to **100 Tonne** capacity. * Useful for observing structural failure modes and validating theoretical models in classroom or research settings. | |
| **Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)**   * 100 Tonne capacity machine designed to test reinforced concrete beams, columns, and steel bars under different loading conditions. * **Make & Origin:** * Make: Bluestar.   **Type of Sample Required for Analysis / Testing (Quantity, Pre-Preparation, State etc.) Guidelines for Sample Submission – User Instructions** | | **Measurement/Sample specifications:**   * Universal testing machine for concrete typically have a load capacity upto 1000 KN. | |

**Features, Working Principle and Specifications**

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* Samples may be prepared as per standard IS codes., If you are unsure about the sample suitability or testing feasibility, you are encouraged to visit the laboratory in advance and discuss your requirements with the lab in-charge or technical staff. This will help ensure proper preparation and avoid delays in testing.

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

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| |  |  |  |  | | --- | --- | --- | --- | | **Internal** | **External Academic Institutes** | **National R&D Lab** | **Industry** | | 500/- per hour | 1500/- per hour | 2500/- per hour | 3000/- per hour | |