**Booking Details**

**Compression and transverse testing machine 300 T**

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|  | **Name of the equipment:**  Compression and transverse testing machine 300 T  **Make & Model:**  UTM -100 ,VEB WERKSTOFFPROFMASCHINEN LEIPZIG,1966  **I-Stem Registration ID-**  3220831  **Category of Instrument**  Characterization and Testing  **Types of Analysis / Testing**  Compression, bending etc  **Application:**  It has to be planned based on the need  **Description of Instrument**  This machine is designed to evaluate the mechanical properties of materials mainly compression, bending tests of concrete specimen |

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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/20831/Compression-and-Bending-Testing-Machine-300-T-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, Working Principle and Specifications**

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| **Features of the equipment**   * Easy crosshead movement on dual support pillars to adjust the gap for specimen placement, enabling convenient operation as per test requirements. * Used to determine compressive, flexural, and crushing strength of cement, concrete, stone, and other construction materials. * Supports a wide range of experiments for Undergraduate, Postgraduate students, and research scholars. * Strong and durable build quality suitable for long-term laboratory and field usage. * Designed for both instructional and research-based applications. | **Unique features/Measurement capabilities, if any**   * Hydraulically operated Compression and Bending Testing Machine. * Capable of performing both compression and flexural strength tests with a single setup. * High-capacity machine with robust design, imported from Germany. * Long-standing operation since 1969, showcasing durability and consistent performance. |
| **Instrument Technical Description and Major Specifications**   * 300 Tonne capacity machine capable of testing cement, concrete, stone, and similar construction materials in both compression and bending modes. | **Measurement/Sample specifications:**   * Universal testing machine for concrete typically have a load capacity upto 1000 KN. |

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

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.

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**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 |