**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) |

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| **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) |

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**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.
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| **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.
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**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 |