

NANO INDENTER

Photo of Instrument:



Instrument Name	NANO INDENTER
Instrument Model & Serial No.	Model- TI Premier
Instrument Make	HYSITRON/BRUCKER
Category of Instrument	Characterization and Testing
Description of Instrument	This system performs indentation, scratch and wear studies capable of studying mechanical properties of thin films, soft samples, metals, etc.
Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)	Maximum force up to 10mN Minimum Contact Force <100nN Stage Travel 50mm x 150mm Z-travel -3.1mm
Application of Instrument (Limited to Major 4 or 5)	Nano Indentation, Nano Scratch Measure reduced young's modulus and hardness
Type of Sample Required for Analysis / Testing (Quantity, Pre-Preparation, State etc.) Guidelines for Sample Submission – User Instructions	Metallic/composite/alloys etc., Maximum size usually limited 100mm x 10mmx10mm
Types of Analysis / Testing	Nano-indentation

Department of Mechanical Engineering, NIT Calicut

Faculty In-Charge Name / Email / Contact	Dr Jose Mathew 0495 2286405 josmat@nitc.ac.in
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Location of Instrument	DIST- FIST Centre
Other Details	

User Charges:

S.NO.	Type of Analysis / Testing	Internal - within Department of NITC	Internal - Other Departments NITC	External Academic Educational Institutes	National R&D Labs	Industry
1	Indentation	3000/hour	3000/hour	3000/hour	3000/hour	3000/hour

Slot Booking and Payment Work Flow: