

Department of Physics, NIT Calicut

UV-VISIBLE SPECTROPHOTOMETER

Photo of Instrument:



Instrument Name	UV-Visible spectrophotometer
Instrument Model & Serial No.	UV-2600i & A125960
Instrument Make	Shimadzu
Category of Instrument	Characterization and Testing
Description of Instrument	A UV-visible spectrophotometer is used to analyse the interaction of light with matter by evaluating parameters, such as absorbance, transmittance, and reflectance.
Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)	Wavelength range: 185 – 900 nm Photometric system: Double beam Light source: 50 W halogen lamp, deuterium lamp Software: LabSolutions™ UV-Vis Measurement modes: Spectrum, quantitation, photometric, and time course
Application of Instrument (Limited to Major 4 or 5)	Analysis of optical absorbance and reflectance Bandgap measurement Transmission measurements Thickness measurement of thin films
Type of Sample Required for Analysis / Testing (Quantity, Pre-Preparation, State etc.) Guidelines for Sample Submission – User Instructions	Liquid, powder, thin film
Types of Analysis / Testing	Absorbance Reflectance

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	Transmittance
Faculty In-Charge Name / Email / Contact	Dr. Maneesh Chandran Email: maneesh@nitc.ac.in
Technical Staff Name / Email / Contact	Anjali C Email: anjalic@nitc.ac.in
Location of Instrument	Room #009, Dept. of Physics
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	Powder, liquid, thin film	50	50	150	200	300

Slot Booking and Payment Work Flow: