



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION
Powai, Mumbai 400076.

PR No. 1000037328

Rfx No. 6100001656

Technical Specification for Optical Microscopy Course Educational Kit

The following educational kits are required to enhance the MTech Lab coursework. The specifications as per our requirement have been mentioned against each item.

ITEMS	SPECIFICATIONS	Compliance (Yes/No)
Optical Microscopy Course Educational Kit	<ul style="list-style-type: none">• Optics: microscope components including - Plano-Convex Collector Lens, $f = 35$ mm; Achromatic Condenser Lens, $f = 50$ mm; Achromatic Objective Lens, $f = 25$ mm; Achromatic Tube Lens, $f = 150$ mm. Custom resolution target for teaching Abbe theory and Fourier optics.• Digital Imaging: a monochrome and a color camera.• Köhler illumination optics.• Imaging mode: brightfield, darkfield, phase contrast, and fluorescence microscopy	
Fourier Optics Kit Components	<ul style="list-style-type: none">• Contains all optomechanical components including optical breadboard, post holders and others.• Targets and masks for required Fourier optics setup• Light Source and Collimation package including white light LED source and its accessories.	



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	<ul style="list-style-type: none">• Optical components including Bandpass Filter, CMOS Color camera, beamsplitter and lens• Hardware and screws for adjustment of optical components on breadboard.	
Time-Resolved Absorption Spectroscopy Kit	<ul style="list-style-type: none">• Nanosecond pulsed laser (VIS/IR)• Si Detector 350-1100 nm• NI DAQ card and VIS/IR detector card• Safety glasses and hardware and screws.	
Michelson Interferometer Educational Kit	<ul style="list-style-type: none">• Source - Red light LEDs and accessories• Beamsplitter• Precision mounts and stages (linear and rotational)• All optomechanical components including, but not limited to, lenses, beamsplitter and others.	
Warranty	<ul style="list-style-type: none">• 1 year	