

Technical Program Schedule – FiMTP 2025

14-15 Feb, 2025

Venue: Conference Hall , IIT Guwahati

Day 1: February 14, 2025 (Friday)

Registration : 9:00 AM – 9:30 AM

Inauguration : 9:30 AM – 10.00 AM

Technical Session - I: (10:00 AM – 10:45 AM)

Session Chair: Prof. Gagan Kumar

10:00 AM – 10:45 AM

Prof. Ranjan Singh, University of Notre Dame, USA

Title: The discovery of high- T_c metamaterial superinductors

10:45 AM – 11:15 AM

Tea

Technical Session - II: (11:15 AM – 12:45 PM)

Session Chair: Prof. Sunil Khijwania

11:15 AM – 12:00 PM

Dr. Debabrata Sikdar, IIT Guwahati

Title: Harnessing Epsilon-Near-Zero Effect in Nanophotonic Metamaterials for modulation of Optical intensity & Polarization

12:00 PM – 12:45 PM

Prof. Tapajyoti Das Gupta, IISc Bengaluru

Title: Exploring liquid metals as alternative for nanoplasmonics

12:45 PM – 02:00 PM

Lunch Break

Technical Session - III: (2:00 PM - 5:30 PM)

Session Chair: Dr. Rishi Maiti

02:00 PM – 02:45 PM

Prof. Shailendra K. Varshney, IIT Kharagpur

Title: Non-radiating states in all-dielectric metasurfaces and its applications

2:45 PM – 03:15 PM

Dr. Maidul Islam, Royal Global University, Guwahati

Title: Planar terahertz meta-waveguide based devices and applications

3:15 PM – 3:45 PM

Tea

3:45 PM – 5:30 PM

Central Instrumentation Facility (CIF) & Centre for Nanotechnology(CFN) Labs Visit

Day 2: February 15, 2025 (Saturday)

Technical Session - I: (9:30 AM -11:00 AM)

Session Chair: Dr. Arun Tej Mallajosyula

9:30 AM – 10:15 AM	Prof. Dibakar Roy Chowdhury, Anurag University, Hyderabad <i>Title: Metagratings for terahertz photonics</i>
10:15 AM – 11:00 AM	Dr. Shashank Pandey, INTEL, USA <i>Title: The future of data transfer and computing</i>
11:00 AM – 11:30 AM	Tea
Technical Session - II: (11:30 AM - 12:30 PM) Session Chair: Dr. Malleswararao Tangi	
11:30 AM – 12:15 PM	Prof. Gagan Kumar, IIT Guwahati <i>Title: Broadband Terahertz Metasurface</i>
12:15 PM – 12:30 PM	Optics and Terahertz Research @ IIT Guwahati
12:30 PM – 2:15 PM	Lunch Break
Technical Session - III: (2:15 PM – 4:00 PM) Session Chair: Prof. Shailendra K. Varshney	
02:15 PM – 03:00 PM	Prof. Junsuk Rho, POSTECH, South Korea <i>Title: Metasurfaces for imaging, sensing and display</i>
3:00 PM – 3:15 PM	Valedictory
3:15 PM – 4:00 PM	High Tea