



2026 4TH IEEE INTERNATIONAL CONFERENCE ON INTERDISCIPLINARY APPROACHES IN TECHNOLOGY AND MANAGEMENT FOR SOCIAL INNOVATION (IATMSI-2026)

ABV-IITM Gwalior

Topics to be covered:

- Photonics, Nonlinear Optics
- Four Wave Mixing, Two Photon Absorption
- Silicon Photonics
- Ring Resonators
- Photonic Crystals
- Photonic Integrated Circuits, Optical Sensors
- Fiber Bragg Grating
- Photonics for Healthcare, AI in Photonics
- Optical Signal Processing
- Optical Computing-FDTD
- Biomedical Case Demonstrations
- Current Research Trends
- Hands-on Session

HANDS-ON WORKSHOP

TECHNICAL REQUIREMENT FOR HANDS-ON WORKSHOP: WINDOWS 10 OR 11 (64-BIT), INTEL CORE I5 (10TH GEN OR NEWER)

FBG-BASED INTEGRATED PHOTONIC SENSORS FOR HEALTHCARE APPLICATIONS

SESSION & DISCUSSION

- INTRODUCTION TO OPTICAL SENSING IN HEALTHCARE
- INTEGRATED PHOTONIC SENSORS
- USE OF THE R-SOFT GRATING MOD TOOL
- FUNDAMENTALS OF FIBER BRAGG GRATINGS (FBGS)



12 March, 2026
9:30AM - 4:30PM

Scan for Registration

Our Speakers



Dr. Ibrar Jahan M. A
Associate Professor,
RNSIT Bengaluru

Expertise

- FBG Sensor Technology
- Optical Fiber Instrumentation
- Biomedical & Structural Sensors
- Integrated Photonics Systems

Role in Workshop

- FBG Theory Sessions
- Hands-on FBG Design
- Healthcare Sensing Insights
- Hands-on Session



Dr. Gaurav Kumar Bharti
Associate Professor, Galgotias
University, &
Visiting Faculty, TDTU Vietnam

Expertise

- Integrated Photonic Sensors
- Biomedical Optical Sensing
- Photonic Device Design
- Optical Signal Processing
- Advanced Sensing R&D

Role in Workshop

- Session on Photonic Sensors
- Biomedical Case Demonstrations
- Current Research Trends

Category	Early Bird Registration (Until 15 th Jan. 2026)				Regular Registration (Until 1 st Feb. 2026)			
	Indian Delegates		International Delegates		Indian Delegates		International Delegates	
	IEEE Member	Non-IEEE Member	IEEE Member	Non-IEEE Member	IEEE Member	Non-IEEE Member	IEEE Member	Non-IEEE Member
Tutorial/Workshop Attendee (without Conference kit)	500₹	600₹	20\$	30\$	800₹	1000₹	30\$	40\$
Tutorial/Workshop Attendee (with Conference kit)	2500₹	2600₹	50\$	80\$	2800₹	3000₹	80\$	90\$

Visit for Registration = <https://iatmsi.iitm.ac.in/registration>

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