

Who can Apply?

- Final year Graduate and post-graduate students
- Project Staffs/Research Scholars (completed or pursuing) in the fields of Physics/ Electronics/Electrical/Instrumentation/ Quantum or related areas
- Faculty/Industry Professionals working in related areas.

Key Topics

- Green Synthesis of Quantum Dots via Laser Ablation
- Advanced Optoelectronic characterization of LEDs
- Non-invasive optoelectronic gadget for Haemoglobin estimation
- Pulsed Laser Deposition for functional optical films
- Fiber lasers: CW to Ultrafast regime
- Ultra-precise sensing using fiber optics
- Hands-on experience on Underwater Wireless Optical Communication (UWOC) testbeds
- Synthesis of halide perovskites and its application in flexible photodetectors
- Laser modulation assisted QEPAS for sensitive gas sensing applications
- Underwater object detection and tracking

Important Dates

Last date for Registration : 10th Sept 2026

Date of Intimation : 21st Spet 2026

Program Date : 7th to 9th October 2026

How to Apply

- Register online using the QR code or the link given below:
<https://forms.gle/rZN8bn5nfXNauseh7>
- Fill all the required details in the registration form.
- Shortlisted participants will be contacted via e-mail

Registration Fee

UG/PG/PhD Scholars	INR 2,360 /-
DIAT-AP Students	INR 1,180 /-
Academia/Faculty	INR 3540 /-
Industry Professional	INR 4,700 /-

- Registration fee includes Registration kit, lunch and refreshments.
- Certificates will be provided to all active participants.
- Accomodation will be provided in campus hostel on application basis, subject to availability.
- No TA/DA will be provided

Registration Deadline

10 September 2026

Limited Seats only!



How to Reach

Defence Institute of Advanced Technology, CQF5+7QF, Gorhe Bk., Maharashtra 411025



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International Workshop on Photonics and Optical Materials (PHOTOMAT - 2026)



October 7th - 9th, 2026



Dept. of Applied Physics, Defence Institute of Advanced Technology, Girinagar, Pune - 411025, MH, India

Sponsored by

OPTICA



Technology
Innovation Hub
IITG TIDF

Convenors



Dr. Shyamal Mondal, +91 6289100852
Dr. A V R Murthy, +91 9049407613

Activities

Day 1: Photonics

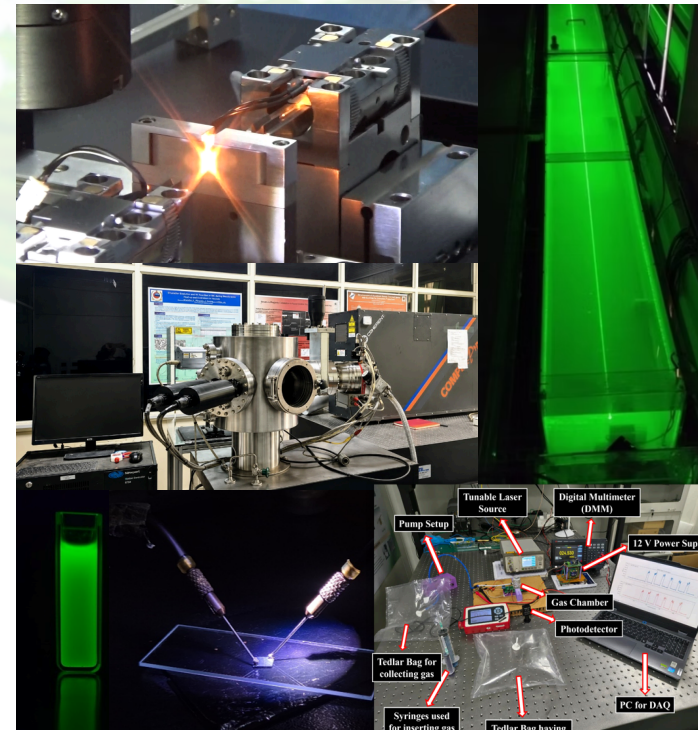
The expert talks will cover the areas of fiber lasers in CW and ultrafast regime, fiber sensors, fiber-based communication, application of fiber lasers in different sectors. This will be followed by laboratory sessions in the same fields.

Day 2: Optical Wireless Communication and Underwater Testing

The talks will have the central theme of optical and acoustic communication via free-space and underwater. The talk will feature the state-of-the-art protocols and communication systems in the field by external experts. Hands-on laboratory sessions on underwater ecosystems will be conducted after the lecture series.

Day 3: Optical Materials

The theme of third day of the workshop will be focused on the application of optical materials in photodetectors, LEDs, sensors, metamaterials, etc. The workshop will be concluded on day 3 with the valedictory session.



IITG-TIDF

TIH, IITG is the core of IIT Guwahati Technology Innovation and Development Foundation (TIDF) and an independent body and a Section 8 company with its registered office in Assam and under NM- ICPS (National Mission on Interdisciplinary Cyber Physical Systems, Department of Science & Technology, Govt. of India.

Keynote Speakers

- Prof. Pavel Peterka, Director, Institute of Photonics and Electronics, Czech Academy of Sciences
- Prof. Satishchandra B. Ogale, Director, TCG-CREST, Kolkata
- Prof. Deepa Venkatesh, Professor, IIT Madras
- Prof. Shailendra K. Varhsney, Professor, IIT Kharagpur
- Dr. P. K. Mukhopadhyay, SO-H, RRCAT , Indore
- Dr. Aditya Dharmadhikari, SO-G, TIFR, Mumbai
- Dr. Anirban Dhar, Principal Scientist, CGCRI, Kolkata
- Dr. Rakesh R. Warier, Asst. Professor, NIT Calicut

Chief Patron

Dr. B H V S Narayana Murthy, Vice Chancellor, DIAT (DU), Pune
Dr. Jagannath Nayak, Director, CHES Hyderabad

Organizing Committee

- Prof. Tejashree Bhawe, HoD & Professor, DIAT
- Prof. Sangeeta Kale, Sr. Professor, DIAT
- Prof. Suwarna Datar, Professor, DIAT
- Dr. Devnath Dhirhe, Asso. Prof., DIAT
- Dr. Shyamal Mondal, Asst. Prof., DIAT
- Dr. A V R Murthy, Asst. Prof., DIAT
- Dr. Pooja Agarwal, Asst. Prof. DIAT



DIAT (DU), Pune

Defence Institute of Advanced Technology (DIAT) is the premier engineering training institute under the Department of Defence Research & Development, Ministry of Defence, Government of India. DIAT (DU) is specialized in the training of officers of Defence Research Organizations tri-services, PSUs. and armed forces of friendly countries and other central and state government agencies and civilians for their Masters and PhD. The civilian students are placed with lucrative packages at Uniphos Envirotronic Solutions, Aeron Systems, QuBeats, CDAC, Bitmappers, Paras Defence, BEL, TE Connectivity and PhD positions at prestigious international institutes.



DIAT OPTICA Student Chapter

DIAT Optica Student Chapter is an outreach initiative founded by the students of DIAT with the goal of connecting to the global community of optics and photonics researchers. The chapter aims to inspire and engage the broader public especially students by promoting awareness and understanding of optics. Serving as a bridge between DIAT and the wider community, it fosters collaboration, knowledge exchange, and a shared passion for photonics.