

**TECHNOLOGY DAY**

# Advancing Optics & Photonics: Innovations, Careers & Industry Insights

 05<sup>th</sup> April 2025  09:30 AM - 01:15 PM

 IIT Madras, Department of EE

Join us for an exciting and insightful technical workshop that brings together industry experts, researchers, and aspiring professionals to explore the latest advancements in optical design, photonics, and emerging technologies. Register now to enhance your expertise and stay ahead with the latest advancements in simulation technology.



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### Highlights

- Growth of the Optics & Photonics Industry in India
- **Ansys Optical Simulation** Solutions for Sustainable Engineering
- Hands-on Demonstration of Building Optical Systems
- Cutting-Edge Applications in AR/VR, HUDs, and Biomedical Imaging
- Exploring **Ansys Zemax** for Precision Optical Design and Optimization
- The Power of **Ansys Lumerical** for Photonic Integrated Circuits (PICs) & Quantum Technologies
- Industry Trends, Career Opportunities, and Insights on bridging Academia and Industry Gap

Agenda	Timing
Introduction & Welcome Note Dr. Venkateswaran PS, Technical Leader - Academics, CADFEM India	09:30 AM - 09:40 AM
Optics & Photonics Industry Growth -its role in Atmanirbhar Bharat Amarendra Nath, BDM (Optics & Photonics), CADFEM India	09:40 AM - 10:00 AM
Keynote Session 1 - Optical Design for Diamond based Magnetometers Prof. Praveen Bhallamudi, Professor Physics Dept. IITM	10:00 AM - 10:20 AM
TEA break with Snacks	10:20 AM - 10:40 AM
Keynote Session 2 - Designing Hybrid Optical Systems for Challenging Applications Prof.Shanti Bhattachrya, Professor EE Dept IITM	10:40 AM - 11:00 AM
Hands on Demo-Building Simple to Complex Optical Systems Adetya Khade, Application Engineer, CADFEM India	11:00 AM - 11:30 AM
Optical Systems for Emerging Technologies-AR/VR/HUD and Biomedical applications Santosh Thumma, Manager OPBU, CADFEM India	11:30 AM - 12:00 PM
Ansys Lumerical -Unlocking the power of photonics - PIC to Quantum applications Susrutha narayan, Sr. AE-Lumerical, CADFEM India	12:00 PM - 12:20 PM
Industry Trends & Career Opportunities in Optics and Photonics Amarendra Nath, BDM (Optics & Photonics), CADFEM India	12:20 PM - 12:40 PM
Closing Remarks, Q/A Session	12:40 PM - 01:00 PM

### Speakers



**Dr. Venkateswaran PS**  
Technical Leader - Academics  
CADFEM India



**Amarendra Nath**  
BDM (Optics & Photonics)  
CADFEM India



**Prof. Praveen Bhallamudi**  
Professor EE Dept  
IITM



**Prof. Shanti Bhattachrya**  
Professor EE Dept  
IITM



**Adetya Khade**  
Application Engineer  
CADFEM India



**Santosh Thumma**  
Manager OPBU  
CADFEM India



**Susrutha Narayan**  
Sr. Application Engineer-Lumerical  
CADFEM India

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