CADFEM® Ansys / ELITE CHANNEL PARTNER

IEEE photonics SOCIETY
Student Branch Chapter NITK

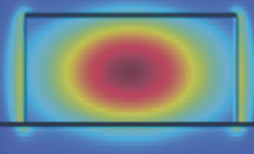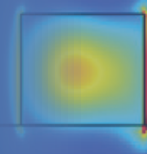## Workshop On

ANSYS LUMERICAL FOR PHOTONIC SIMULATIONS
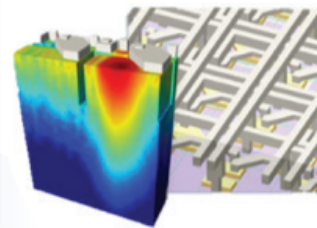
📅 05.01.2024   🕐 10:00 AM - 04:30 PM   📍 Online

The event aims to empower researchers, academicians, and students in the field of photonics by imparting valuable insights into the powerful simulation tool Ansys Lumerical. Through this workshop, participants will gain a deeper understanding of Photonics simulation techniques, laying the groundwork for groundbreaking research and innovations in the field of plasmonic devices, sensors and other photonic devices.

CLICK TO REGISTER

HIGHLIGHTS

➤ Explore the modeling of various plasmonic devices and sensor.
➤ Discover how Ansys simulation transforms the development of photonic devices.
➤ Showcase some real-world examples and how Ansys is useful in solving complex industry problems

WHO SHOULD ATTEND

➤ Students
➤ Research Scholars
➤ Professors
➤ All Photonics enthusiasts

AGENDA	TIMINGS	SPEAKERS
➤ Overview of Ansys Multiphysics Platform	10:00 AM - 10:15 AM	**Sharjad A J** Application Engineer – Academics CADFEM India
➤ Overview of Ansys solutions and its application in the design of various photonic devices ➤ Application of Ansys solution to LSPR biosensor, grating, and PIC based biosensor ➤ Design of optical filter using Ansys solution for industry based applications	10:15 AM - 12:30 PM	**Susruta Narayan Chaudhury** Application Engineer – Photonics CADFEM India
BREAK	12:30 PM - 02:00 PM	
➤ Demonstration of local field enhancement using nano-hole metallic arrays ➤ Numerical investigation of Plasmonic waveguides for harmful chemical detection. ➤ Surface conductivity modeling of graphene based plasmonic biosensor. ➤ Process flow for Lumerical Mode in waveguide designs using FDTD solver	02:00 PM - 04:30 PM	**Susruta Narayan Chaudhury** Application Engineer – Photonics CADFEM India

Coordinator: Dr. Mandeep Singh, IEEE Photonics Society Faculty Advisor @ NITK Surathkal

📞 +91-9849998435   ✉ marketing@cadfem.in   🌐 www.cadfem.net/in/en

▶ Hyderabad ▶ Bangalore ▶ Chennai ▶ Pune ▶ Gurugram ▶ Coimbatore ▶ Ahmedabad

CADFEM Group

APAC: India | Singapore | Malaysia | Thailand | Vietnam | Indonesia | Philippines | Bangladesh
EMEA: Germany | Switzerland | Austria | France | Czech Republic, Slovakia | Poland | Greece | UK | Ireland | Tunisia | Algeria | Morocco
AMERICAS: USA (CA, NE, OR, MD, NC, SC, WA DC, NV)