



FIVE DAY HANDS-ON TRAINING WORKSHOP ON  
**Life Cycle of a Sensor: Development to Application**

**Date:** 17th Feb. - 21st Feb. 2025

**WORKSHOP SCHEDULE**

Time	Lectures	Instructor Details	Laboratory sessions
<b>DAY 1 – (Monday, 17<sup>th</sup> Feb 2025)</b>			
0830-9000	<b>Registration</b>		
0900-0930	<b>Inauguration</b>		
0930-1000	<b>Tea Break</b>		
1000-1100	Inaugural talk: Advancing Inertial Sensing: Innovations, Challenges, and Future Directions.	Dr. Jagannath Nayak Director, CHESS, Hyderabad	-
1100-1200	Overview of Quantum Sensors.	Prof. Umakant Rapol, Professor, IISER Pune	-
1200-1300	Design and development on Sensors of navigation sensors for space.	Dr. Sam Dayal, Former Director, IIST, Thiruvananthapuram	-
1300-1400	<b>Lunch Break @ Godavari Hostel</b>		
1400-1730	Introduction to Sensor Interfacing and Data Acquisition - I	Mr. Satyendra Vishwakarma Ms. Sneha Jadhav	LEOC/Sensor Lab
<b>DAY 2 – (Tuesday, 18<sup>th</sup> Feb 2025)</b>			
0900-1000	Flexible wearable Sensors for biomedical applications.	Dr. Dhiman Mallik, IIT Delhi	-
1000-1100	U-FOS probes - A versatile platform for chemical and bio sensing	Dr. V. V. R. Sai, IIT Madras	-
1100-1130	<b>Tea Break</b>		
1130-1330	Sensor interfacing and Data Acquisition - II	Mr. Satyendra Vishwakarma Ms. Sneha Jadhav Mr. Pramod Bankar Mr. Vijay Sonule Mr. Vikrant Gurmitkal	LOC/Sensor Lab
1300-1400	<b>Lunch Break @ Godavari Hostel</b>		
1400-1730	Hands-on Training Advanced Sensor Lab - I	<ul style="list-style-type: none"><li>• Prof. Sangeeta Kale</li><li>• Prof. Suwarna Datar</li><li>• Dr. Tejashree Bhawe</li><li>• Dr. Devnath Dhirhe</li><li>• Dr. Shyamal Mondal</li><li>• Dr. A.V.R. Murthy</li></ul>	Different Research Laboratories



<b>DAY 3 – (Wednesday, 19<sup>th</sup> Feb 2025)</b>			
0900-1000	Integrated Nano-photonics with Van der Waals Materials	Dr. Rishi Maiti, IIT Guwahati	-
1000-1030	<b>Tea Break</b>		
1030-1300	Demonstration of FOG and MEMS Sensors	Scientists from RCI, Hyderabad	Prithvi/Pinaka, Auditorium Building
1300-1400	<b>Lunch Break</b>		
1400-1500	Advancing Sensor Miniaturization with Two-Photon Lithography	Prof. Shobha Shukla, IIT Bombay	-
1500-1800	Hands-on Training Advanced Sensor Lab - II	<ul style="list-style-type: none"> <li>• Prof. Sangeeta Kale</li> <li>• Prof. Suwarna Datar</li> <li>• Dr. Tejashree Bhawe</li> <li>• Dr. Devnath Dhirhe</li> <li>• Dr. Shyamal Mondal</li> <li>• Dr. A.V.R. Murthy</li> </ul>	Different Research Laboratories
<b>DAY 4 – (Thursday, 20<sup>th</sup> Feb 2025)</b>			
0900-1000	Introduction to MEMS Fabrication	Dr. M Ravi, Director SITAR	-
1000-1030	<b>Tea Break</b>		
1030-1300	Hands-on training on LabVIEW for Sensor Data acquisition and processing	Industry Experts	-
1300-1400	<b>Lunch Break @ Godavari Hostel</b>		
1400-1730	Hands-on Training Advanced Sensor Lab -III	<ul style="list-style-type: none"> <li>• Prof. Sangeeta Kale</li> <li>• Prof. Suwarna Datar</li> <li>• Dr. Tejashree Bhawe</li> <li>• Dr. Devnath Dhirhe</li> <li>• Dr. Shyamal Mondal</li> <li>• Dr. A.V.R. Murthy</li> </ul>	Different Research Laboratories
<b>DAY 5 – (Friday, 21<sup>st</sup> Feb 2025)</b>			
0930-1330	Mini project		
1330-1430	<b>Lunch Break @ Godavari Hostel</b>		
1430-1530	Terahertz (THz) Spectroscopy: Development to Applications	Prof. S. S. Prabhu, TIFR Mumbai	-
1530-1630	<b>Valedictory Function</b>		