



Module PMRF-ISSS064/2025

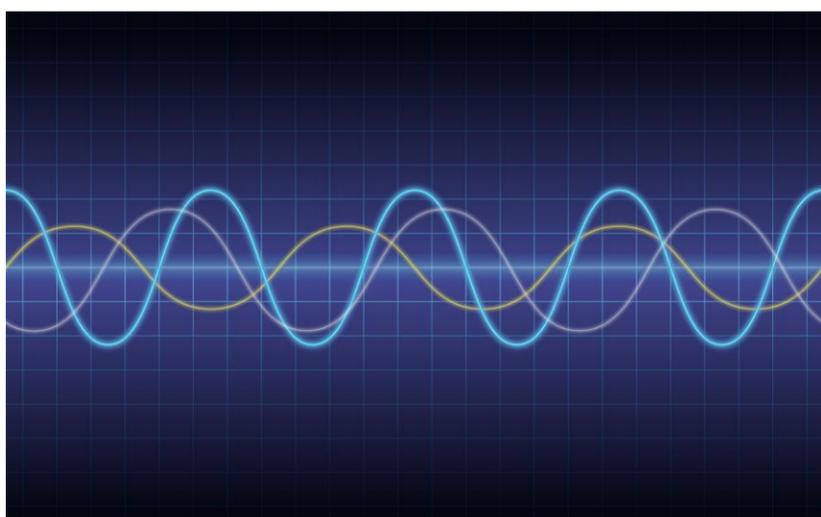
Nanophotonics

Name of the PMRF student

Subha Biswas, IISc Bangalore

Required background of the students taught

Any learner with UG level understanding of Chemistry



Details of the content of the module

In this course, we shall focus on understanding the behaviour of light and how light-matter interaction opens up new avenues in research. The lectures will contain the following key concepts:

1. History of light
2. Vibrations and waves
3. Interference and diffraction
4. Electromagnetic waves
5. Optical response of materials
6. Plasmon resonances
7. Resonant light-matter interactions
8. Quantum theory of light

Schedule of the module

Start Date: 7th November 2025

End Date: 21st February 2026

Schedule: Recorded videos of 2 hours per week

Meeting link : Will be shared later

Contact email ID: issc.forum@gmail.com

Registration link:
<https://forms.gle/D2YX7UVqrTDiWbCy5>