



Module PMRF-ISSS114/III/2025

# Raman Spectroscopy and SERS

## Name of the PMRF student

Avisekh Pal

## Required background of the students taught

Physics, Chemistry, Nanoscience,  
Material Science

## Details of the content of the module

Module 1: Light-matter interaction

Module 2: Various spectroscopy techniques

Module 3: Raman spectroscopy (Theory)

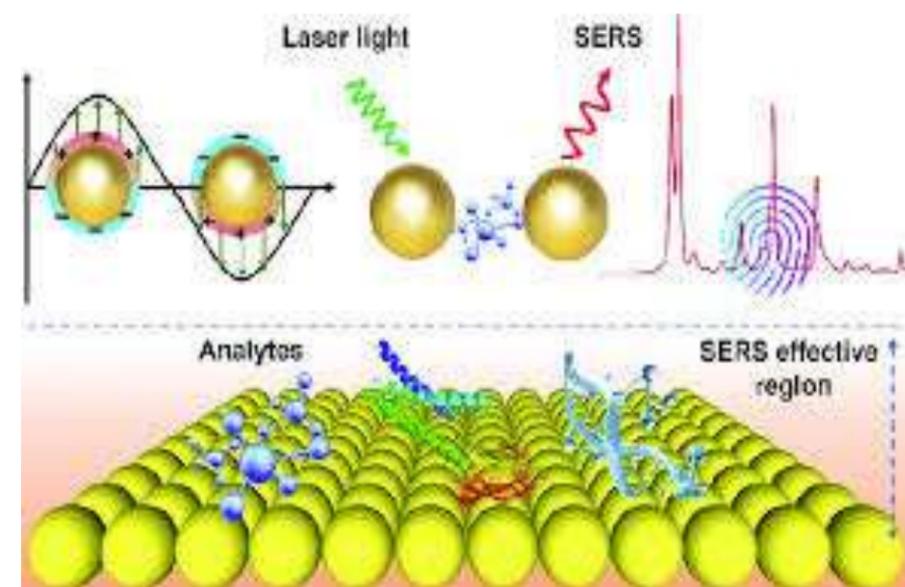
Module 4: Raman spectroscopy  
(Instrumentation)

Module 5: SERS

Module 6: SERS-based sensing applications

Module 7: Fabrication of SERS substrates

Module 8: Single-molecule SERS



## Schedule of the module

Start date: January 10, 2026

End date: April 4, 2026

Total duration: 50 hours

Class schedule: Every Saturday and Sunday

Class timings: 10 am to 12 noon

Recorded lectures will be uploaded regularly

Meeting link : Will be shared later

[Link](#)

Contact email ID: [issf.forum@gmail.com](mailto:issf.forum@gmail.com)

Registration link:

<https://forms.gle/jUvJQFmyCVJYcZEe6>