

# Seminar

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## Institute for Plasma Research

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**Title :** Raman Spectroscopy for biological application: A promising tool for molecular discrimination of cells

**Speaker:** Dr. Sheena TS  
Bharathidasan University, Tiruchirappalli

**Date :** 25th March 2022 (Friday)

**Time :** 03.30 PM

**Venue :** Online - Join the talk:

[https://lobby.ipr.res.in/DrSheenaTS\\_PDFTalk](https://lobby.ipr.res.in/DrSheenaTS_PDFTalk)

### **Abstract :**

Raman spectroscopy is widely used as an excellent analytical tool for molecular structure determination. With the advent of lasers for excitation, Raman measurements afford the valuable information for molecular characterization of complex molecular systems. Importantly, it's very useful in measuring the dynamic response of the molecules such as biofluids, cells and tissues. This presentation will provide an overview of biomedical applications of Raman spectroscopy and imaging, highlighting the potentials as well as challenges and limitations. This will be further outlined the recent developments in disintegration of molecules in the cells after the drug exposure and the real-time, quantitative diagnostic information in vitro level will be discussed.

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