

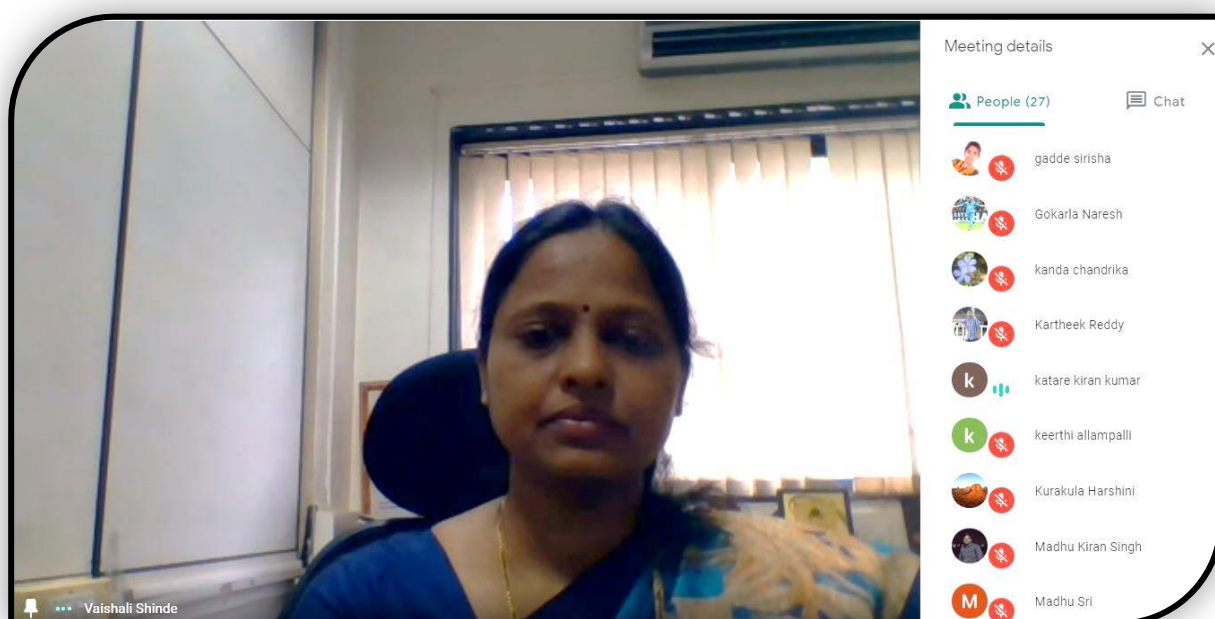
Online Guest Lecture (Webinar) on IR Spectroscopy

16th June, 2020

Organized by: Department of PG Chemistry

PG Department of Chemistry organised an online Guest Lecture By Prof. Vaishali Shinde from Dept. of Chemistry, Savitribhai Phule Pune University, Pune on IR Spectroscopy to All M.Sc Organic and Analytical Chemistry Students on 16th June, 2020 at 11.00 am. In her lecture she covered the following topics

- Introduction to IR Spectroscopy
- Principle involved in IR Spectroscopy
- Fundamental modes of Vibrations
- Finger print region
- Group frequencies
- Factors effecting IR Frequencies
- Applications of IR Spectroscopy



REC Vaishali Shinde is presenting

THE ELECTROMAGNETIC SPECTRUM

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Meeting details: People (33), Chat (3)

Participants: sailu, sasi 786, sowmya Reddy Allu, SRI RAM GUDIVADA, Suvid Shinde, Vaishali Shinde (Presentation), Vaishali Shinde, venkata srujana, Venkatasandhya Iruvuri

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Fundamental Modes of Vibrations

1- **Stretching Vibrations**

- Symmetric stretching
- Asymmetric stretching

2- **Bending vibrations**

A- **In-plane bending**

- Scissoring
- Rocking

b- **Out-of-plane bending**

- twisting
- wagging

Meeting details: People (38), 11:10 AM

Participants: k, katare kiran ku..., Vaishali Shinde, venkata srujana, Naresh Nomula, D, DURGA DEVI PO..., Neha rachakonda, Bhagyasri sarka..., sagam hemala

REC Vaishali Shinde is presenting

Sample preparation

- **Gas** - use special gas cell
- **Liquid** - neat, 0.01mm thickness between two salt plates such as NaCl, KBr, CSCI2
- **Solid** -
 - **Pellet** - grind sample with KBr powder, then press into a transparent disc.
 - **Mull** - analyte is dispersed into a mineral oil (Nujol) or a fluorinated polymer spread on salt plate

Meeting details: People (40), Chat

Add people

Participants: Dept of Chemistry KBN College..., Aishwarya Dakarla, anuradha devalla, Bhagyasri sarkavarapu, ch srinivas, Dilip Dhavale, DURGA DEVI PODILAPU, gadde sirisha

Meeting details: Turn on captions, Vaishali Shinde is presenting