

**B.L.D.E.Association's
S.B.Arts and K.C.P. Science College,Vijayapur.**

PG DEPARTMENT OF CHEMISTRY

GUEST LECTURE 2022-23

Topic: IR and Raman Spectroscopy

For

PG Dept of Chemistry Students

Date: 09th April. 2023

Time: 10:00 am.

VENUE

Seminar Hall,

S.B.Arts and K.C.P.Science College,

Vijayapur

.P. G. Department of Chemistry

Guest lecture

By

Mr. Vinayak Bellad

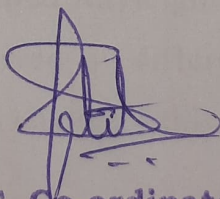
Notice

Date: 03/04/2023

All the PG Dept of Chemistry students are hereby informed to attend the guest lecture organized by PG Department of Chemistry on the Topic: **IR and Raman Spectroscopy** on 09/04/2023 in seminar hall at 10:00 am.



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P.G.Department of Chemistry
S.B.Arts & K.C.P. Science College,
Vijayapur-586101.



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Vijayapur.



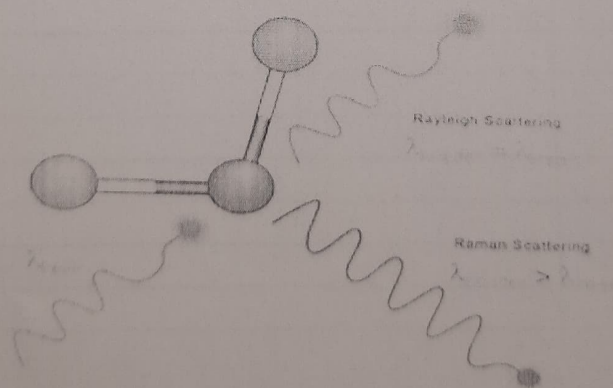
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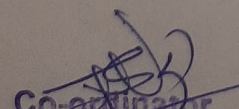
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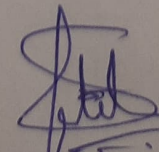
Topic: IR and Raman Spectroscopy

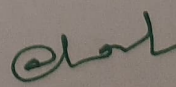
Infrared spectroscopy (IR spectroscopy or vibrational spectroscopy) is the measurement of the interaction of infrared radiation with matter by absorption, emission, or reflection. It is used to study and identify chemical substances or functional groups in solid, liquid, or gaseous forms. It can be used to characterize new materials or identify and verify known and unknown samples. The method or technique of infrared spectroscopy is conducted with an instrument called an **infrared spectrometer** (or spectrophotometer) which produces an **infrared spectrum**. An IR spectrum can be visualized in a graph of infrared light absorbance (or transmittance) on the vertical axis vs. frequency, wavenumber or wavelength on the horizontal axis. Typical units of wavenumber used in IR spectra are reciprocal centimeters, with the symbol cm^{-1} .

Raman Spectroscopy is a non-destructive chemical analysis technique which provides detailed information about chemical structure, phase and polymorphy, crystallinity and molecular interactions. It is based upon the interaction of light with the chemical bonds within a material. Raman is a light scattering technique, whereby a molecule scatters incident light from a high intensity laser light source. Most of the scattered light is at the same wavelength (or color) as the laser source and does not provide useful information – this is called Rayleigh Scatter. However a small amount of light (typically 0.0000001%) is scattered at different wavelengths (or colors), which depend on the chemical structure of the analyte – this is called Raman Scatter.




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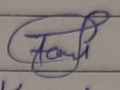
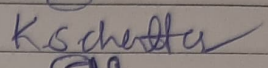
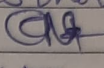
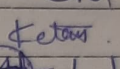
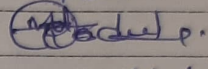
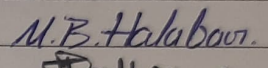
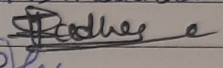
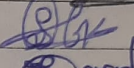
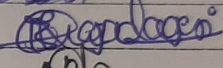
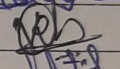
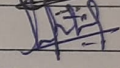
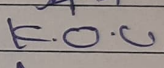
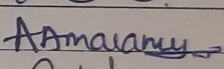
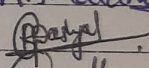
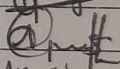
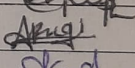
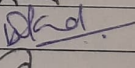
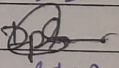
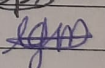

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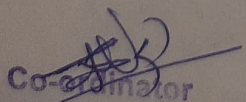
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P. G. Department of Chemistry
Guest Lecturer-2022-23

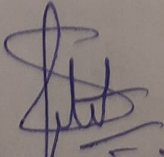
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Topic : IR and Raman Spectroscopy

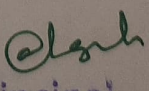
Date: 09/04/2023
Session:01

Attendance

Sl. No	Name of the student	Signature
1	Sahabagoud. Kumalagi	
2	Keshav. S. Chatter	
3	Chandrashekar. N. Konnarmath	
4	Ketan. Chinchakhandi.	
5	Mohammed Zuber Terdal	
6	Mahesh. Halabur	
7	Shyamaray. Valasang.	
8	Shree Padaraj. G. Kulakarni	
9	Goudappagouda. B. Angadageri	
10	Vidyashri R Chavan	
11	Lakshmi. M. Patil	
12	Kaveri. Utagi	
13	Akshata. A. Mahanur	
14	Rashmi. G. Dashyal.	
15	Apeksha. P. Shirshiyad	
16	Aishwarya. P. Asangi	
17	Laxmi. S. Kadadevar	
18	Danamma. P. Shiragoor	
19	Saraswati. G. Mathapati	
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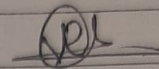

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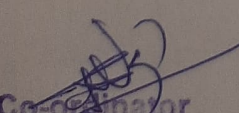
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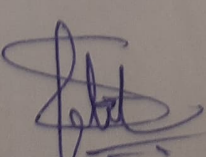
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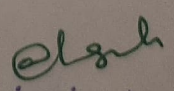
Date: 09/04/2023
Session:02

Attendance

Sl. No	Name of the student	Signature
1	Vidyashri R Charan	
2	Kaveri. utagi	K.O.L
3	Akshata. A. Maranur	Amaranur
4	Rashmi. G. Dashyal.	Rashmi
5	Apeksha. p. Shirshyad	Apeksha
6	Aishwarya. P. Asangi	Aishwarya
7	Laxmi S. Kadadevar	Laxmi
8	Danamma. P. Shiragoor	Danamma
9	Saraswati G. Mathapati	Saraswati
10	Lakshmi. M. Tati	Lakshmi
11	Goudappagouda. B. Angadageri	Goudappagouda
12	Shreepadadasai. G. Kulkarni	Shreepadadasai
13	Kiran. Chinchalkhandi	Kiran
14	Shyamaray. Valasang.	Shyamaray
15	Chandrashekhar. N. Pannermath	Chandrashekhar
16	Sahabagoud. Kumalagi	Sahabagoud
17	Keshav. S. Chatter	K.S.Chatter
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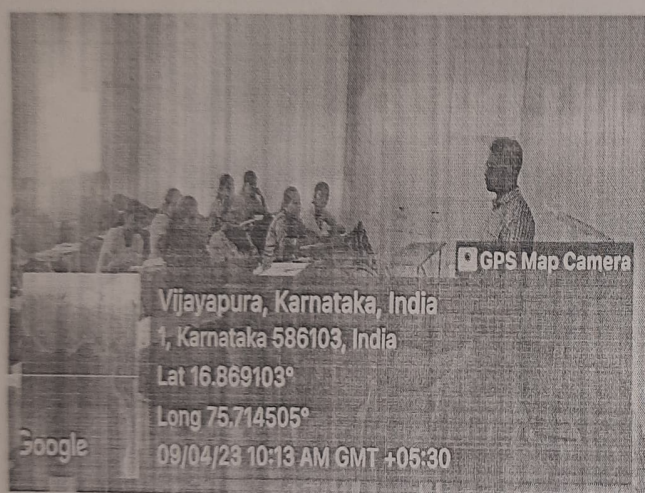

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PG DEPARTMENT OF CHEMISTRY

GUEST LECTURE 2022-23

Date: 09th April, 2023

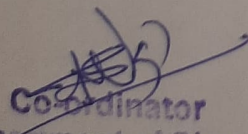
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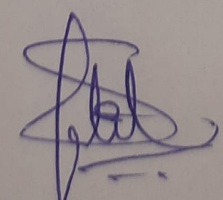
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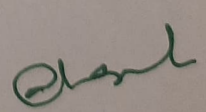
By

Mr. Vinayak Bellad


Coordinator

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