

# **B.L.D.E.Association's**

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

**Vijayapur**

**DEPARTMENT OF CHEMISTRY**

**DALTON SOCIETY**

**GUEST LECTURE 2018**

**Topic: IR AND RAMAN SPECTROSCOPY**

**For**

**M.Sc. Students**

**Date: 7-12-2018**

**Time:10 a.m.**

**VENUE**

**Seminar Hall,**

**S.B.Arts and K.C.P.Science college**

**BLDEA S.B.Arts and K.C.P. Science College,Vijayapur.**

**Department of Chemistry**

**Guest lecture**

**By**

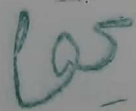
**Dr. BASAVARAJ PADMASHAILI.**


**NOTICE**

Date: **07-12-2018**

All the M.Sc students are hereby informed to attend the guest lecture organised by Department of Chemistry on the Topic: **IR AND RAMAN SPECTROSCOPY** on **07-12-2018** in seminar hall at 10.00AM.

  
**Co-ordinator,**  
P. G. Department of Chemistry,  
SB Arts & KCP Science College  
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P.  
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Dr. BASAVARAJ PADASMASHAILI came from Ranni Channamma University, Belagavi on 7<sup>th</sup> Dec; 2018. He came to our college to give a lecture on spectroscopic topics. All M.Sc and staff members were attended to this lecture. He spoke on some spectroscopic techniques which include IR, UV and NMR spectroscopy.

He discussed some important points regarding spectroscopy as follows:

#### 1) Infrared Spectroscopy:

Principle: IR spectroscopy is concerned with the study of absorption of infrared radiations, which causes vibrational transition in the molecule. Hence, IR spectroscopy also known as vibrational spectroscopy.

Types of Vibration: Two types of vibrations are observed

Stretching vibrations      2) Bending vibrations.

IR spectroscopy is mainly used in structure elucidation to determine the functional groups.

#### 2) Nuclear Magnetic Resonance Spectroscopy:

Principle: The principle behind NMR is that many nuclear have spin and all nuclei are electrically charged. If an external magnetic field is applied, an energy transfer is possible between the base energy to a higher energy level.

APPLICATION:

- 1) Detection of direct hydrogen bonding.
- 2) Drug screening and desing.
- 3) Metabolite and chemical analysis.
- 4) Material science.

#### 3) Ultra Violet - Visible Spectroscopy:

Principle: It is the measurement of the attenuation of a beam of light passes through a sample or after reflection from a sample surface.


APPLICATION:


- 1) Detection of impurities.
- 2) Structural elucidation of organic compounds.
- 3) Quantitative and Qualitative analysis.
- 4) Molecular weight determination.

HOD:

  
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


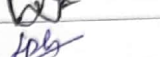









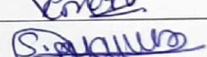





PRINCIPLE:


  
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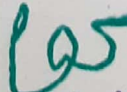
# GUEST LECTURE 2018-19

## Topic: IR AND RAMAN SPECTROSCOP


Sl.N o	RCU No.	Name of the student	Signature
1	CH182001	Aishwarya Sajjan	
2	CH182002	Akshata Marab	
3	CH182003	Amruta Kashetti	
4	CH182004	Archana Pattar	
5	CH182005	Bandavva Pattanashetti	
6	CH182006	Bibizahera Bevanur	
7	CH182007	Daneshvani Walimarada	
8	CH182008	Deepa Kamble	
9	CH182009	Leela Harijan	
10	CH182010	Manjula Godihal	
11	CH182011	Meenaxi Hosamani	
12	CH182012	Pooja Sajjan	
13	CH182013	Priya Karabhari	
14	CH182014	Soumya Muttagi	
15	CH182015	Soumya Warad	
16	CH182016	Suvarna Gidaganti	
17	CH182017	Tabasum Badeghar	
18	CH182018	Tejaswini Pawar	
19	CH182019	Umarani Sachin	
20	CH182020	Veeresh Kambi	
21	CH182021	Vijalaxmi Meti	
22	CH182022	Yallur Santosh	


  
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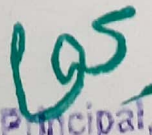
  
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23	CH172001	Akshay Wadageri	Akshay.w.
24	CH172003	Basavaraj A Patil	Basavaraj
25	CH172004	Bhavan B Kulkarni	Bhavan.B.K.
26	CH172005	Geeta Kuntoji	Geeta
27	CH172006	Geeta Tuppada	Geeta
28	CH172007	Hajimastan Mujawar	— AB
29	CH172008	Katyayani S Sirur	Katyayani
30	CH172009	Kavita Angadi	AK
31	CH172010	Malashri S Rokadi	MS
32	CH172012	Manjunath B Patil	MP
33	CH172013	Neha Taslim	Neha
34	CH172014	Pooja Kengal	Pooja
35	CH172015	Pooja Pujari	Pooja
36	CH172016	Praveenkumar Danganavar	Praveen
37	CH172017	Rakshata R Yandolli	Rakshata
38	CH172018	Sheshidhar Mamane	Sheshidhar
39	CH172019	Shweta Pande	Shweta
40	CH172020	Siddayya Pujari	Siddayya
41	CH172021	Sneha B Bagalkot	Sneha
42	CH172022	Sulegavi Jayalaxmi	Sulegavi
43	CH172023	Vinuta Khened	Vinuta

  
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