



Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Chemistry

Organized online Workshop on

"RECENT ADVANCES IN MASS SPECTROSCOPY"

Under Lead College Activity

Date-9/2/2022

Report

The Department of chemistry organised one day online workshop on "Recent Advances in Mass Spectroscopy" on 9th February 2022. In the first session Dr. N. D. Nikam introduced purpose of this workshop and the activities conducted under Lead College Scheme. Mr. N. M. Gosavi introduced the resource person Dr. P. V. Chavan (Y. C. College, Satara.) Dr. P. V. Chavan gave information about basic concept in mass spectroscopy he also explained recent developments in Mass spectroscopy, basic concept about the UV-Visible, IR, NMR spectroscopies. Vote of thanks proposed by Dr. P. S. Patil.

Second session was introduced by Mr. N. M. Gosavi. The resource person for this session was Dr. Sandip Mahamuni, (S. G. M. College, Karad.) He described basic concepts about Acid-Bases, solvents used in spectroscopy and coordination chemistry related to spectroscopy. Vote of thanks proposed by Dr. N. D. Nikam.

This workshop was attended by 73 participants from different colleges. Principal Dr. V. S. Sawant guided for the organization of the workshop. Dr S. D. Jadhav (Head, Dept. of Chemistry) took initiative for successful organization of this workshop.

Head

Department of Chemistry
D. P. Bhosale College, Koregaon
Dept. of Chemistry

Principal

D. P. Bhosale College,
Koregaon.
D. P. Bhosale College Koregaon



Rayat Shikshan Sanstha's
D. P. Bhosale College, Koregaon.

Dist: Satara, Maharashtra, India – 415 501.

(Affiliated to Shivaji University, Kolhapur)

NAAC Re-Accredited: 'A' (CGPA-3.12)

ISO 9001:2015 Certified

Online Workshop on

“RECENT ADVANCES IN MASS SPECTROSCOPY”

Organized by

DEPARTMENT OF CHEMISTRY

Under Lead College Activity

On

Wednesday, 9th February, 2022

Resource Person

Dr. Pramod Chavan

Department of Chemistry, Y. C. I. S.,
Satara

Dr. Sandip Mahamuni

Department of Chemistry, S. G. M. College,
Karad, Dist-Satara

Dr. N. D. Nikam

Convener

Mr. N. M. Gosavi

Organizing Secretary

Dr. V. S. Sawant

Principal

D. P. Bhosale Collage, Koregaon.

Registration Link : <https://forms.gle/oyTaK4TE9Z71U1jK6>

Whatsapp Link Group : <https://chat.whatsapp.com/CL4qNad0jEA4pWtj5HsalG>

Online Lecture Link : <https://meet.google.com/gen-dxax-znk>

If any query please contact to-

Dr. N. D. Nikam

Assistant Professor (9767600262)

Mr. N. M. Gosavi

Assistant Professor (9075075704)

Free Registration



Rayat Shikshan Sanstha's
D. P. Bhosale College, Koregaon

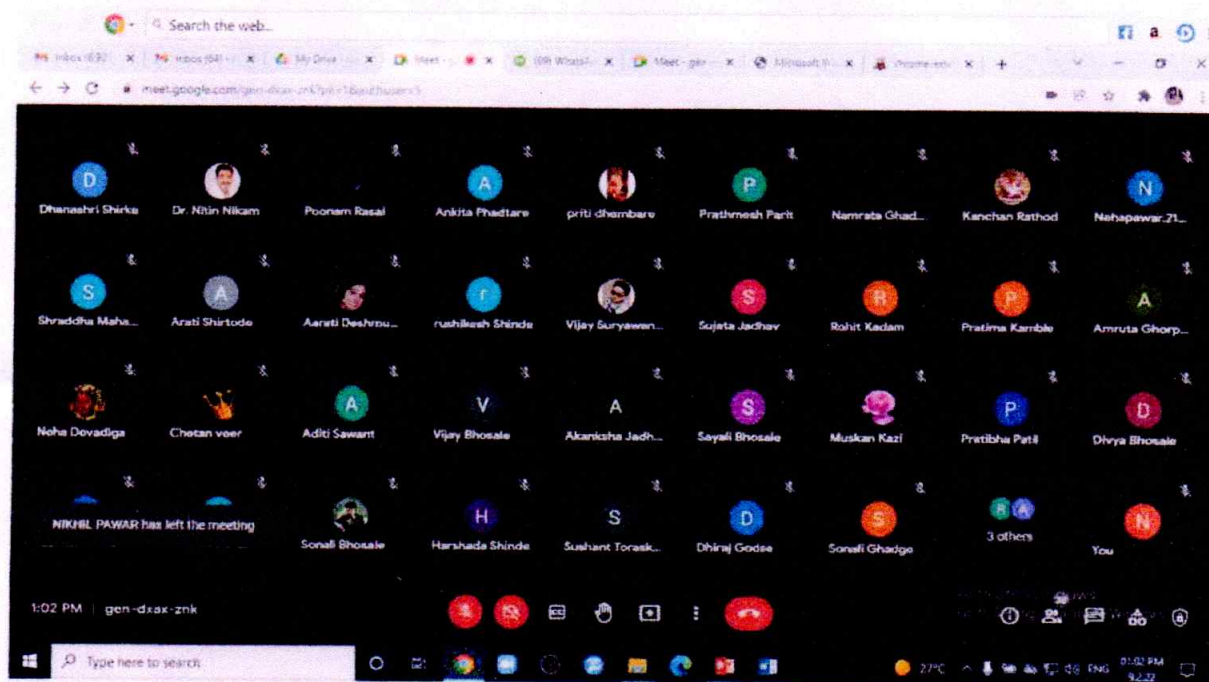
Department of Chemistry

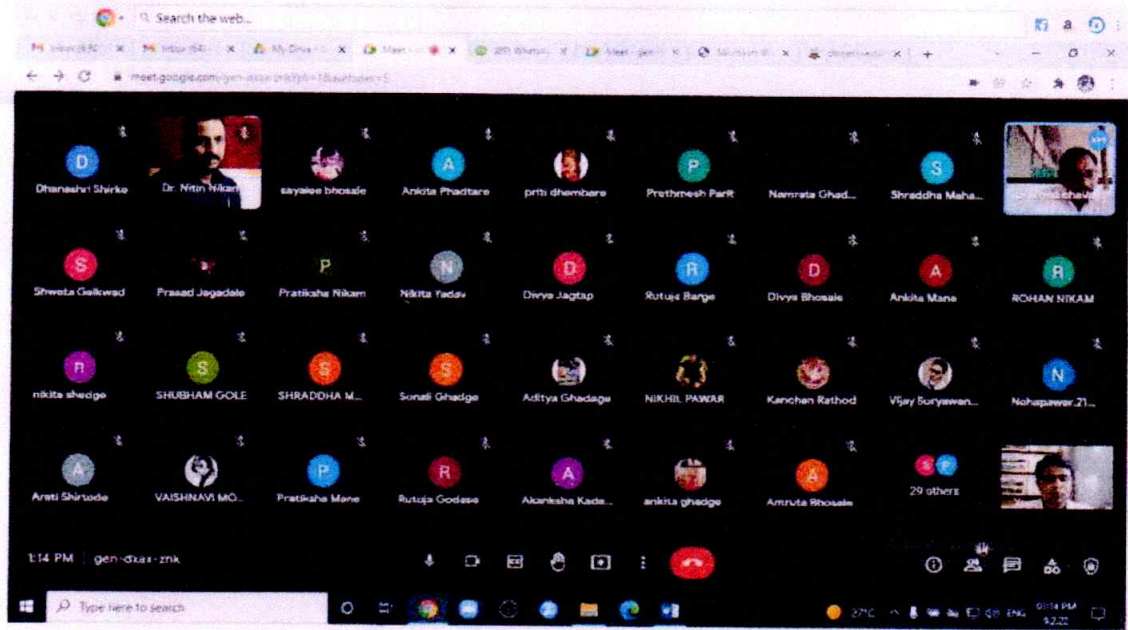
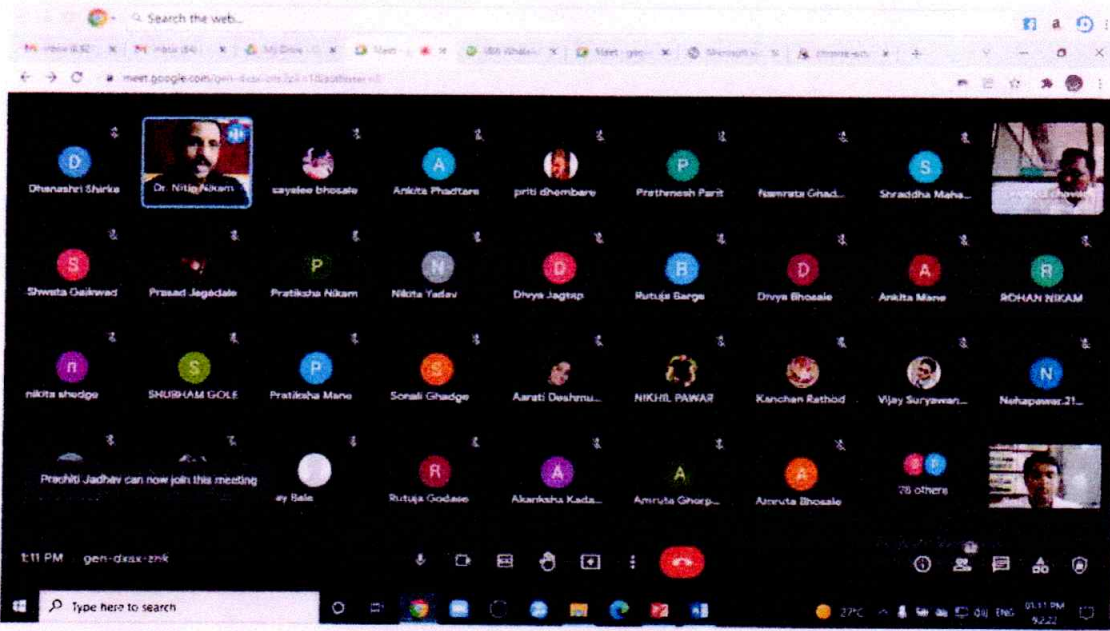
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pramod chavan is presenting

Electromagnetic spectrum and the atomic/molecular processes:

Molecules undergo processes like rotation, vibration, electronic transitions, and nuclear transitions. The energies underlying these processes correspond to different regions in the electromagnetic spectrum.

- Radiofrequency waves:** Radiofrequency region has very low energies that correspond to the energy differences in the nuclear and electron spin states. These frequencies, therefore, find applications in nuclear magnetic resonance and electron paramagnetic resonance spectroscopy.
- Microwaves:** Microwaves have energies between those of radiofrequency waves and infrared waves and find applications in rotational spectroscopy and electron paramagnetic resonance spectroscopy.
- Infrared radiation:** The energies associated with molecular vibrations fall in the infrared region of electromagnetic spectrum. Infrared spectroscopy is therefore also known as vibrational spectroscopy and is a very useful technique for functional group identification in organic compounds.
- UV/Visible region:** UV and visible regions are involved in the electronic transitions in the molecules. The spectroscopic methods using UV or visible light therefore come under Electronic spectroscopy.
- X-ray radiation:** X-rays are high energy electromagnetic radiation and cause transitions in the internal electrons of the molecules.

Rohit Ingle can now join this meeting

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pramod chavan is presenting

Spectroscopy is an instrumentally aided study of the interactions between **matter** (sample being analyzed) and **energy** (any portion of the electromagnetic spectrum)

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Dr. Nitin Nikam, ROHAN NIKAM, Dhanashri Shirke, Aditya Ghadage, Dnyaneshwar Shin..., Rutuja Barge, 64 others

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pramod chavan is presenting

Principle of IR spectroscopy

- Molecules are made up of atoms linked by chemical bonds. The movement of atoms and the chemical bonds like like spring and balls (vibration)
- This characteristic vibration are called **fundamental frequency of vibration**

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Rayat Shikshan Sanstha's
D. P. Bhosale College, Koregaon
Department of Chemistry

Recent Advances in Mass Spectroscopy

Date-9.2.2022

One Day Workshop Under Lead College Koregaon

Sr. No.	Full Name	Mobile No	Designation	City/Village
1	aishwarya godse	9970727262	Student	Shiramby
2	Bhosale Sayalee Vikas	7758861148	Student	Gujarwadi
3	Chaitanya shashikant Barge	9370741418	Student	Koregaon
4	Ganesh Vijay Ambekar	9579773754	Student	Chanchali - Koregaon
5	Dr. Natha Sukhadev Kalel	7875204335	Faculty	Koregaon
6	Prathmesh Arun Parit	7219028228	Student	Koregaon
7	Mr. Shingade Dnyaneshwar Ishwar	9011862030	Faculty	Koregaon
8	Akanksha Arjun Jadhav.	7249665213	Student	Jalgaon
9	Ghadge Namrata Anil	9561825496	Faculty	Borgaon
10	Akanksha Rajendra Netke	9021478706	Student	Kanherkhed
11	Pooja dagadu pawar	9921734246	Student	Koregaon
12	Siddharth sandip kumbhar	9356501701	Student	Koregaon
13	Atpadkar Nisha Narhari	7798750419	Faculty	Koregaon
14	Mayuri Prabhakar Yewale	8275457430	Student	Shendurjane
15	Pawar Arati Ajay	9503855932	Student	Koregaon
16	Bapu Sunil Madane	8767525003	Student	Koregaon
17	Sakshi vijay jagtap	7498400536	Student	Nigadi
18	Sonali Nandkumar Ghadge	7758856091	Student	Lhasurne
19	Punam Ashok Jagtap	9307687095	Student	Koregaon
20	Bhosale Sonali Prakash	9699128008	Student	Koregaon (Eksal)
21	Tate pranali Prabhakar	7066530668	Student	Koregaon
22	Tate Ashwini Vijay	9307956598	Student	Koregaon
23	Akanksha Mahesh Kadam	9322667374	Student	Koregaon
24	Arpita Anandrao Ghadge	8010640524	Student	Borgaon
25	Ashwini Sunil Nikam	8149326282	Student	Koregaon
26	Shirke Dhanashri Rajendrakumar	9011211748	Student	Koregaon
27	Ganesh Bhimsen Shinde	8975988603	Student	Kumathe koregaon
28	Dhembare Priti Dipak	7448007034	Student	Kumthe
29	Pratibha Ramchandra Sutar	8766593708	Student	Koregav


Head

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D. P. Bhosale College, Koregaon

Estd: 1968



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* Jr. College Index No. J21.05.001

Principal, Dr. Vijaysinh S. Sawant M.Sc. Ph.D.

Ref. No. : 1036/2021-22

Date : 8/2/2022

Letter of Invitation

To

**The Principal,
Y.C.I.S., Satara**


Respected Sir,

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You are kindly requested to depute him for the afore mentioned workshop as a resource person. His expertise in this area will definitely be beneficial for our students.

Thank you..

Yours Faithfully,


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Dist. Satara.

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The Principal,

S.G.M. College, Karad

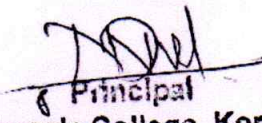
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Principal
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Dist. Satara.



To Dr. Sandip Mahamuni
+91 99214 58167

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Head
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D. P. Bhosale College, Koregaon

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Head

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D. P. Bhosale College, Koregaon

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