



**Rayat Shikshan Sanstha's**  
**Abasaheb Marathe Arts and New Commerce, Science College, Rajapur,**  
**Dist-Ratnagiri, 416 702 (MH)**

*Affiliated to University of Mumbai, Mumbai*

*Reaccredited with B<sup>+</sup> grade by NAAC/ Best college Award by University of Mumbai, Mumbai*

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*Number of workshops/seminars/conferences organized during 2021-2022*

<b>Sr. No.</b>	<b>Name of the event</b>	<b>Department</b>	<b>Date</b>	<b>Funding agency</b>
1	Intellectual Property Rights and Indian Patent Filing	Research cell & Science Association	22/09/2021	Self
2	National Conference on "Lecture Series for UG and PG (Chemistry) Students"	Chemistry	23/03/2022 and 24/03/2022	Royal Society of Chemistry, West India.
3	Financial Education on Indian Capital Market and Wealth Management	Commerce	11/05/2022	Self



Rayat Shikshan Sanstha's  
**Abasaheb Marathe Arts and New Commerce, Science  
College, Rajapur, Dist-Ratnagiri**

**Research Cell and Science Association**

Jointly Organize One Day Workshop on

**“Intellectual Property Rights and Indian Patent Filing”**

Wednesday, 22<sup>nd</sup> September 2021

**REPORT**

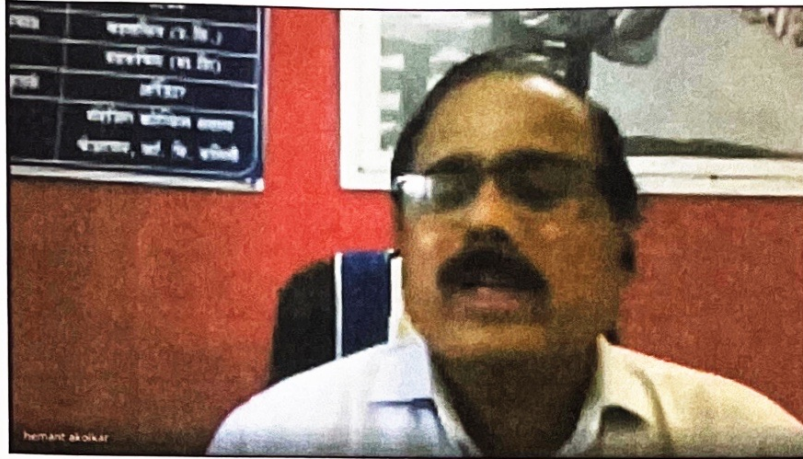
- Resource Person:** Mr. S. B. Kumbhar,  
Assistant Professor, Department of Chemistry  
Dahiwadi College, Dahiwadi
- Date and time:** Wednesday, 22<sup>nd</sup> September 2021 at 3.00 pm
- Program link:** [meet.google.com/equ-sogx-wvy](https://meet.google.com/equ-sogx-wvy)

Research Cell and Science Association of Abasaheb Marathe Arts and New Commerce, Science College, Rajapur was jointly organized a national webinar on “*Intellectual Property Rights and Indian Patent Filing*” on Wednesday, 22<sup>nd</sup> September 2021 at 3.00 pm. on Google meet platform for students and teachers. The Google meet link was circulated among students and faculties who were registered for this event. About 193 registrations of students, teachers and other were recorded for this webinar.

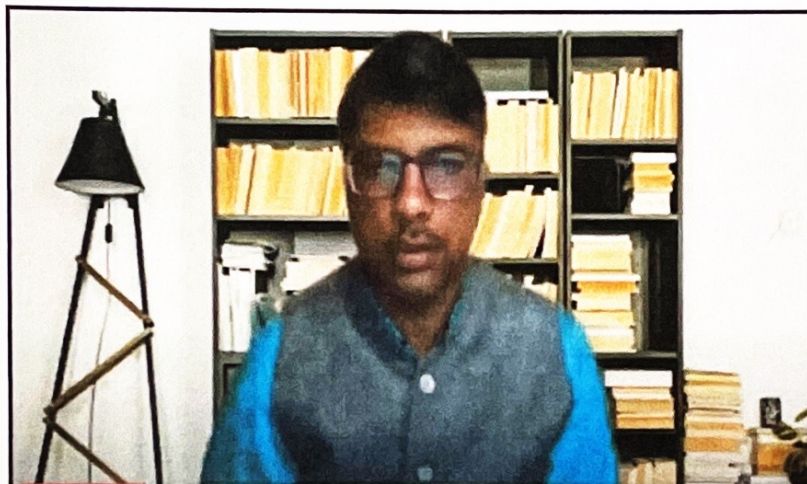
The inaugural function started in presence of Hon. Principal Dr. P. G. Pawar and all dignitaries. Welcome address and introductory speech for the session was given by Hon. Principal Dr. P. G. Pawar. Dr. H. N. Akolkar has introduced to the guest speaker Mr. S. B. Kumbhar. During this webinar, Mr. S. B. Kumbhar has shared his views regarding importance of Intellectual Property Rights and patent filing. He has also explained about strategies and governmental back up for Intellectual Property Rights. He has also given detail information about the criteria for application of patent and details about the dos and don'ts regarding patent filing. He also covered the methodology adopted by the patent office and the fee structure required for application of patent.

At the end, session was concluded with vote of thanks by Mr. G. B. Pawar. Teachers and students from B.Sc., B. A., B.Com. from our college and other colleges were benefited from this webinar. Feedback given by the participants showed that, the workshop was useful and path finding. All participants were satisfied with the information given in the webinar.

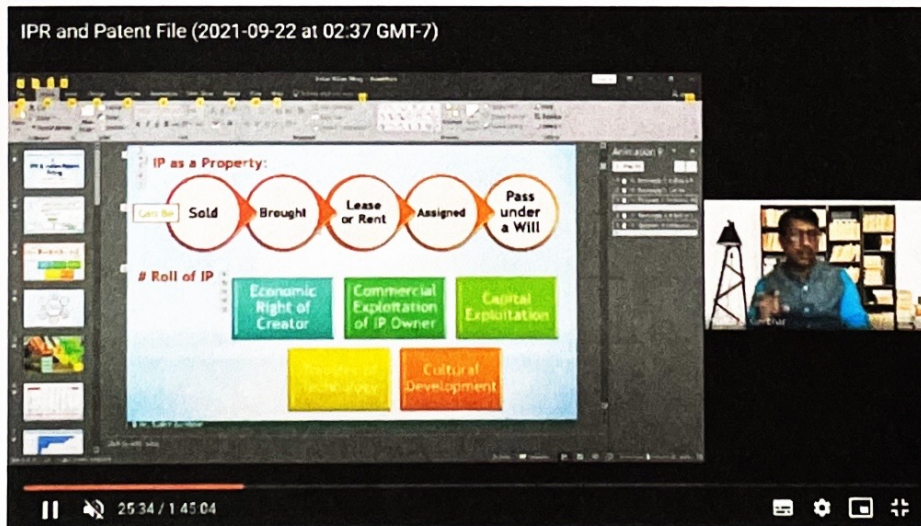
Photographs of the programme:  
“Intellectual Property Rights and Indian Patent Filing”  
Wednesday, 22<sup>nd</sup> September 2021



Welcome Address: Hon. Principal Dr. P. G. Pawar



Resource Person: Mr. S. B. Kumbhar



Presentation by Mr. S. B. Kumbhar



*Jeeva*  
I/c Principal  
A.M.A. & N.C.S. College  
Rajapur, (V. Gothane) Dist. Ratnagiri.



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Rajapur, Dist: Ratnagiri, Maharashtra, India, PIN- 416702  
NAAC Re-accredited 'B+' grade



On the Occasion of 134<sup>th</sup> Birth Anniversary of  
Padmabhushan Dr. Karmaveer Bhaurao Patil

**Research Cell and Science Association**

Jointly Organize

One day workshop on

**"Intellectual Property Rights and Indian Patent Filing"**

**Wednesday, 22<sup>nd</sup> September 2021 at 3.00 pm**

**- Guest Speaker -**



**Mr. S. B. Kumbhar,**  
Assistant Professor,  
Department of Chemistry  
Dahiwadi College, Dahiwadi



Join us with



Google Meet



Registration link: <https://forms.gle/gNSWe1K8DLkQis5Gn8>

Meeting Link: [meet.google.com/equ-sogx-wvy](https://meet.google.com/equ-sogx-wvy)

**Coordinator**  
**Dr. Hemant Akolkar**  
Head,  
Department of Chemistry

**Organizing Secretary**  
**Mr. G. B. Pawar**  
Head,  
Department of Botany

**Convener**  
**Dr. P. G. Pawar**  
Principal,  
A. M. A. N. C. S. College, Rajapur





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On the Occasion of 134<sup>th</sup> Birth Anniversary of  
Padmabhushan Dr. Karmaveer Bhaurao Patil

## Research Cell and Science Association

Jointly Organize One day workshop on

# "Intellectual Property Rights and Indian Patent Filing"

Wednesday, 22<sup>nd</sup> September 2021 at 3.00 pm

### Programme Schedule

Programme	Programme coordinator	Time
Introduction and Welcome Address	Dr. P. G. Pawar, Principal, Abasaheb Marathe Arts and New Commerce, Science College Rajapur	3.00 to 3.10 pm
Resource person introduction	Dr. H. N. Akolkar, Head, Department of Chemistry	3.10 to 3.15 pm
Speaker	Mr. Sudhir Kumbhar, Dahiwadi College, Dahiwadi	3.15 to 3.55 pm
Discussion with participants	Mr. Sudhir Kumbhar, Dahiwadi College, Dahiwadi	3.55 to 4.10 pm
Vote of thanks	Mr. G. B. Pawar, Head, Department of Botany	4.10 to 4.15 pm



*Heer*  
I/C Principal  
A. M. A. & N. C. S. College  
Rajapur, Dist. Ratnagiri.



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Rajapur, Dist: Ratnagiri, Maharashtra, India, PIN- 416702

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**Department of Chemistry**  
in association with  
**Royal Society of Chemistry- West India**

Organized

Two Days National Workshop on

***"Lecture Series for UG and PG (Chemistry) Students"***

**23<sup>rd</sup> and 24<sup>th</sup> March 2022**

### REPORT

Rayat Shikshan Sanstha's Abasaheb Marathe Arts and New Commerce, Science College situated in Rajapur Dist. Ratnagiri affiliated to University of Mumbai. Institute is well known, renowned and prestigious one and located in rural area. We focus on giving quality education to the needy, deprived and downtrodden students of rural and Konkan region.

The Department of Chemistry has organized the two day National Workshop on "Lecture Series for UG and PG (Chemistry) Students" on 23<sup>rd</sup> and 24<sup>th</sup> March 2022 in association with Royal Society of Chemistry and this lecture series was mile stone to the rural students. By listening the renowned resource person students were motivated and will try to achieve goals. For this workshop total 450 student and 29 teacher participants were registered from different institutes. This lecture series for UG and PG Chemistry Students was organized online on Zoom platform and YouTube live Streaming. The summary of the workshop is as follows:

• **Day-1: Wednesday, 23<sup>rd</sup> March 2022.**

Zoom Link of the day:	<a href="https://us02web.zoom.us/j/81955544006?pwd=S09CRVJsWmlUcWpVdGEvbGlnUjcydz09">https://us02web.zoom.us/j/81955544006?pwd=S09CRVJsWmlUcWpVdGEvbGlnUjcydz09</a>
YouTube link of the day	<a href="https://youtu.be/oJhzOtfAtf4">https://youtu.be/oJhzOtfAtf4</a>

- **Inauguration (9.45 am to 10.00 am):** The compering of the programme was done by Dr. Kirti Mahanwar. Dr. Ghansham Harale, Incharge Principal of the college gave the introduction of the institute and Head of the Department Dr. Hemant Akolkar gave the welcome address.
- **Session I (10.00 am to 11.00 am):** Dr. Kulbushan Sasane gave the introduction of the speaker of the session I **Prof. Dr. Suvarn Kulkarni**, Professor, Department of Chemistry, Indian Institute of Technology Bombay. Dr. Suvarn Kulkarni has

introduced the basic concepts of Stereochemistry and throw a light on projection formulae, CIP rule, enantiomeric and diastomeric relationship etc. He cleared all doubts of the students about concepts of stereochemistry. The question answer session followed by vote of thanks were done by Dr. Kulbhushan Sasane.

- **Session II (11.00 am to 12.00 pm):** Mr. Ganesh Pawar gave the introduction of the speaker of the session II **Dr. Rohit Singh Chauhan**, Assistant Professor, K. J. Somaiya College of Science and Commerce, Vidyavihar, Mumbai. Dr. Rohit Singh Chauhan has given the talk on electronic spectra of transition metal complexes. In his talk he explained the d-d transition, colouring transition elements, electron distribution in orbitals, L-S coupling, Term symbol and discussed the related problems. The question answer session followed by vote of thanks were done by Dr. Kirti Mahanwar.
- **Session III (12.00 pm to 01.00 pm):** Dr. Kirti Mahanwar gave the introduction of the speaker **Dr. Hemant Akolkar**, Head, Department of Chemistry, A. M. A. & N. C., S. College, Rajapur, Dist- Ratnagiri. Dr. Hemant Akolkar gave his talk on Problems in Stereochemistry. In his talk he solved the problems based on projection formulae, conformations of cyclohexane, optical activity etc. He solved the problems from CSIR, SET and Gate question papers. Vote of thanks done by Dr. Kirti Mahanwar.

● **Day-2: Thursday, 24<sup>th</sup> March 2022**

<b>Zoom Link of the day:</b>	<a href="https://us02web.zoom.us/j/85905784336?pwd=T1VZNXRBaVVIWXVKRHNTY2J1SVh4UT09">https://us02web.zoom.us/j/85905784336?pwd=T1VZNXRBaVVIWXVKRHNTY2J1SVh4UT09</a>
<b>YouTube link of the day</b>	<a href="https://youtu.be/r5-PHa23IA">https://youtu.be/r5-PHa23IA</a>

- **Session I (10.00 am to 11.00 am):** Dr. Hemant Akolkar gave the introduction of the speaker of the session I **Prof. Dr. Rahul Maitra**, Assistant Professor, Department of Chemistry, Indian Institute of Technology Bombay. Dr. Rahul Maitra has introduced the basic concepts of Quantum Chemistry. In his talk he explained what is mean by quantum mechanics, double slit experiment, postulates of quantum mechanics, particle in square well potential, and their examples. He cleared all doubts of the students about concepts of quantum mechanics. The question answer session followed by vote of thanks were done by Dr. Kulbhushan Sasane.
- **Session II (11.00 am to 12.00 pm):** Dr. Kulbhushan Sasane awar gave the introduction of the speaker of the session II **Dr. Shankar Thopate**, Principal, Radhabai Kale Mahila Mahavidyalaya, Ahmednagar. Dr. Shankar Thopate has delivered his talk on <sup>1</sup>H NMR spectroscopy. In his talk he explained the basic concepts of NMR spectroscopy, magnetic anisotropy, coupling constants, The question answer session followed by vote of thanks were done by Dr. Kulbhushan Sasane.



- **Session III (12.00 pm to 01.00 pm):** Dr. Suhas Kamble gave the introduction of the speaker **Mr. Jaidip Wable**, Assistant Professor, K. J. Somaiya College of Science and Commerce, Vidyavihar, Mumbai. Mr. Jaidip Wable gave his talk on Problems in combined spectroscopy. In his talk he solved the problems based on IR and  $^1\text{H}$  NMR etc. He solved the problems from CSIR, SET and Gate question papers. Vote of thanks done by Dr. Hemant Akolkar.

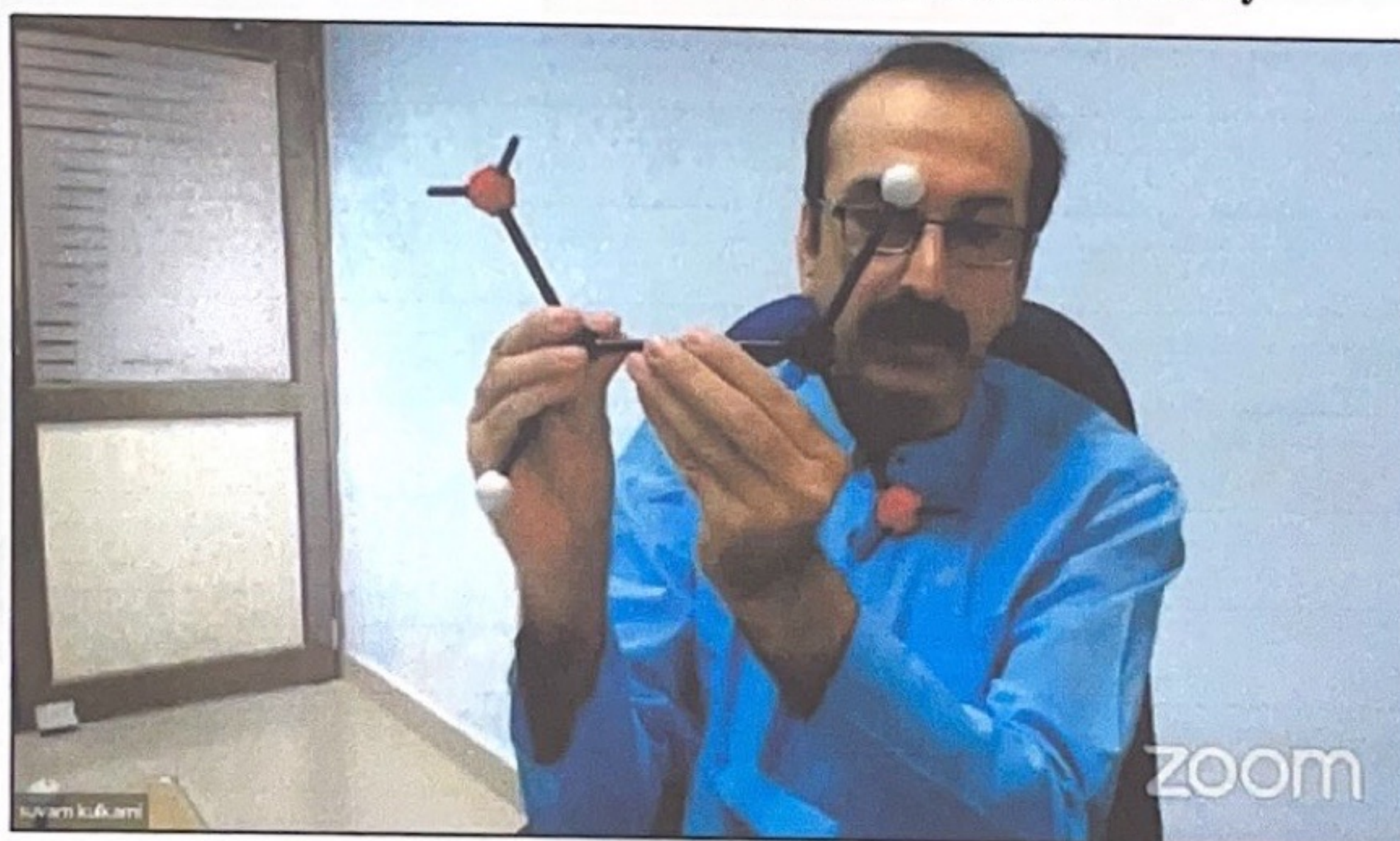
The information shared by all the speakers is inspiring for all the participants. Feedback was collected from the participants using Google form link. Once they submitted feedback participants received Certificate.

No. of Beneficiary for Day-1: **251**

No. of Beneficiary for Day-2: **303**

Feedback form link: <https://forms.gle/WzTESzLRDu9VqDZPA>

### Day-1: Session I: Dr. Suvarn Kulkarni, IIT Bombay



### Day-1: Session II: Dr. Rohit Singh Chauhan, K. J. S. S. C. College, Vidyavihar

**Origin of Electronic spectra**

Light source  $I_0$  Cell  $l$  Detector  $I$

$$\log \frac{I_0}{I} = A = \epsilon cl$$

$A$  = absorbance  
 $\epsilon$  = molar absorptivity ( $\text{L mol}^{-1} \text{cm}^{-1}$ ) (also known as molar extinction coefficient)  
 $l$  = path length through solution (cm)  
 $c$  = concentration of absorbing species ( $\text{mol L}^{-1}$ )

$h\nu$   $\Delta E$

absorption  $\rightarrow$  apparent colour

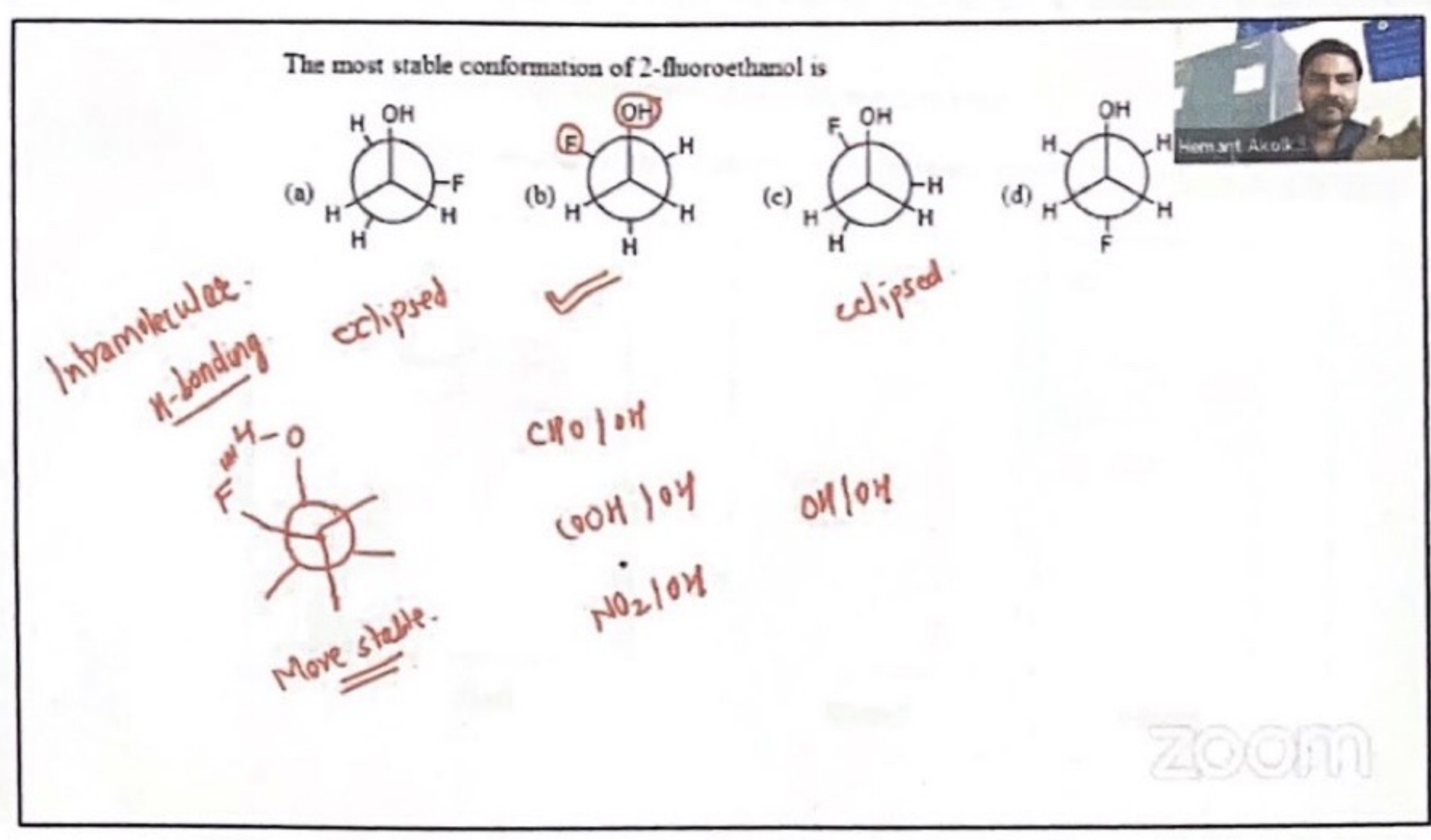
Q. Match the following compound with their color:

Complex	Color
a) $[\text{Fe}(\text{NH}_3)_6]^{2+}$	Red Green
b) $[\text{Fe}(\text{H}_2\text{O})_6]^{2+}$	Blue Orange
c) $[\text{NiCl}_6]^{4-}$	Yellow Violet

Field Strength  $\text{NH}_3 > \text{H}_2\text{O} > \text{Cl}$   
Energy Order Violet  $>$  Green  $>$  Orange



Day-1: Session III: Dr. Hemant Akolkar, Abasaheb Marathe College, Rajapur



Day-2: Session I: Dr. Rahul Maitra, IIT Bombay

Indian Institute of Technology Bombay

Why Quantum Mechanics and What is it all about?

The Double slit experiment:

To study the interaction of electrons, photons and other microscopic particles, → Behavior of e<sup>-</sup>.

Intensity of sound is same. → particle property. → Distribution of probability behaves like a wave.

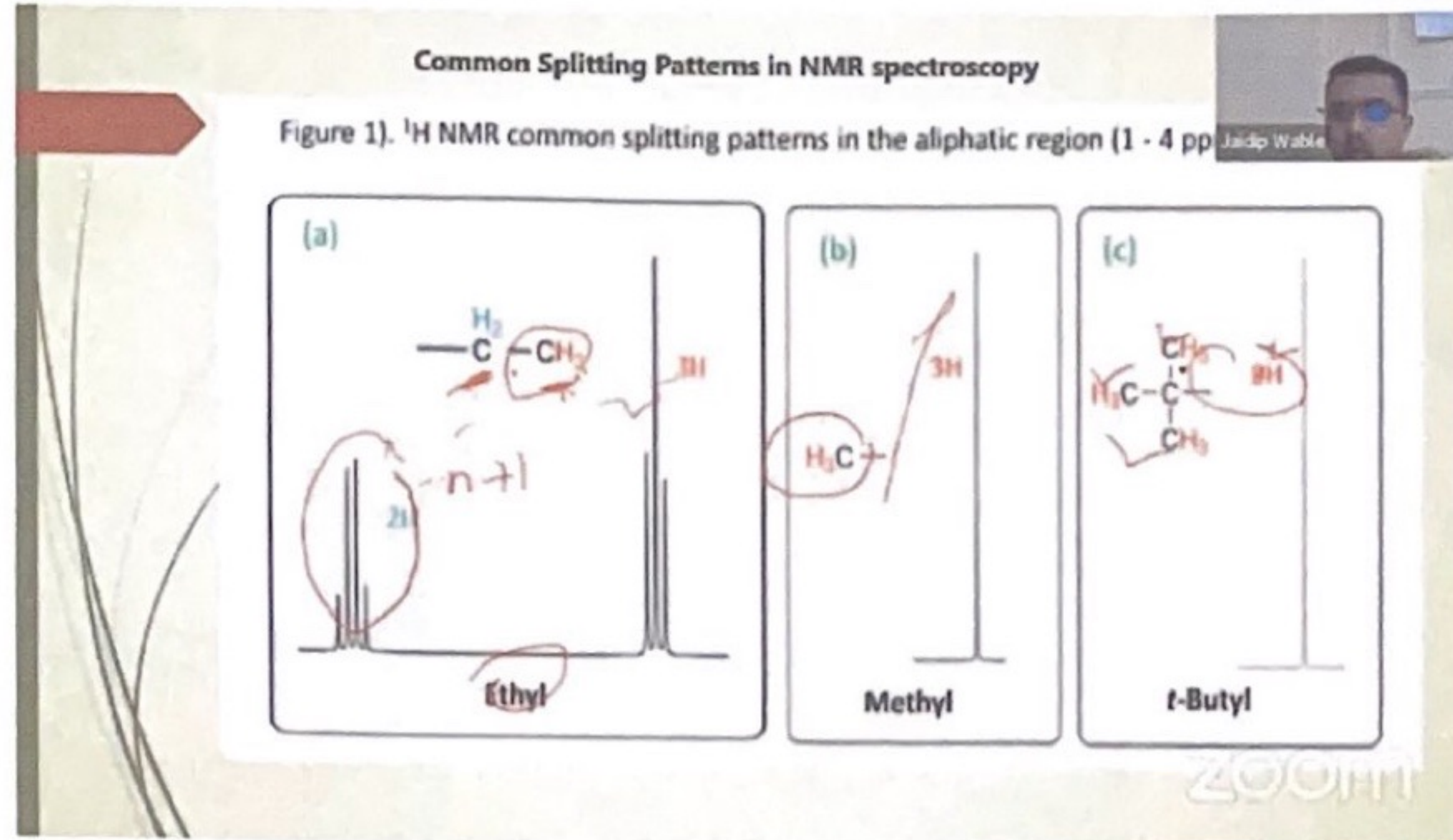
Day-2: Session II: Dr. Shankar Thopate, Radhabai Kale Mahila Mahavidyalaya, Ahmednagar

### External Magnetic Field

When placed in an external field, spinning protons act like bar magnets.

lower energy more stable      higher energy less stable

Day-2: Session III: Mr. Jaidip Wable, K. J. S. S. C. College, Vidyavihar



*Hemant Akolkar*

Dr. Hemant Akolkar  
Coordinator



*Ghansham Harale*

Dr. Ghansham Harale  
Incharge Principal



Rayat Shikshan Sanstha's

## Abasaheb Marathe Arts and New Commerce, Science College

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### Department of Chemistry

in association with

### Royal Society of Chemistry- West India

Organizes



Two Days National Workshop on

## "Lecture Series for UG and PG (Chemistry) Students"

23<sup>rd</sup> and 24<sup>th</sup> March 2022

### Resource Persons



Dr. Suvarn Kulkarni,  
IIT, Bombay



Dr. Rahul Maltra,  
IIT, Bombay



Prin. Dr. Shankar Thopate,  
R. K. M. M., A.Nagar



Dr. Rohit Singh Chauhan  
K. J. S. S. C, Vidyavihar



Dr. Hemant Akolkar,  
A.M.A. & N.C.S.C., Rajapur



Mr. Jaidip Wable,  
K.J.S.S.C. Vidyavihar



Register in advance for this event using the following link

<https://forms.gle/MexYRRgveppp6Zu6>

Join Telegram link: <https://t.me/+2QbiegAQhhBhNjk1>

Join us with



Dr. Kirti Mahanwar,  
Members,  
Organizing Committee

Dr. Hemant Akolkar,  
Coordinator & Head,  
Department of Chemistry

Dr. Ghansham Harale  
Incharge Principal,  
A.M.A. & N.C.S.C. Rajapur



Rayat Shikshan Sanstha's



## Abasaheb Marathe Arts and New Commerce, Science College

Rajapur, Dist: Ratnagiri, Maharashtra, India, PIN- 416702  
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## Department of Chemistry

in association with

**Royal Society of Chemistry- West India**  
organizes



## "Lecture Series for UG and PG (Chemistry) Students"

Day-2: 24<sup>th</sup> March 2022

### Resource Persons



Dr. Rahul Maitra,  
IIT, Bombay

Time: 10:00 to 11:00 am

**Topic: Basics of  
Quantum Chemistry**



Prin. Dr. Shankar Thopate,  
R. K. M. M., A.Nagar

Time: 11:00 to 12:00 noon

**Topic: 1H NMR Spectroscopy**



Mr. Jaidip Wable,  
K.J.S.S.C. Vidyavihar

Time: 12:00 to 1:00 pm

**Topic: Problems on  
spectroscopy**



<https://us02web.zoom.us/j/85905784336?pwd=T1VZNXRBaVVIWXXVKRHNtY2J1SVh4UT09>

Dr. Kirti Mahanwar,  
Members,  
Organizing Committee

Dr. Kulbhushan Sasane,

Dr. Hemant Akolkar,  
Coordinator & Head,  
Department of Chemistry



Dr. Ghansham Harale  
Incharge Principal,  
A.M.A. & N.C.S.C. Rajapur

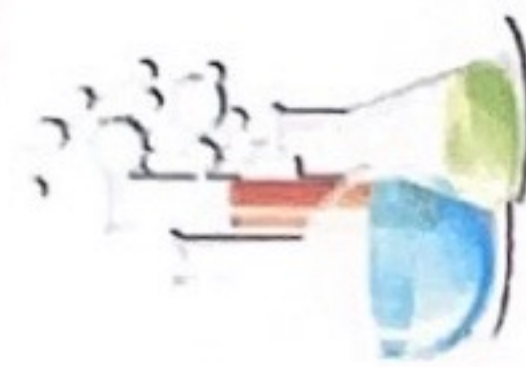


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**"Lecture Series for UG and PG (Chemistry) Students"**

**Day-1: 23<sup>rd</sup> March 2022**

Resource Persons



**Dr. Suvarn Kulkarni,**  
IIT, Bombay

**Time: 10:00 to 11:00 am**

**Topic: Organic  
Stereochemistry**



**Dr. Rohit Singh Chauhan**  
K. J. S. S. C, Vidyavihar

**Time: 11:00 to 12:00 noon**

**Topic: Electronic spectra of transition  
metal complexes**



**Dr. Hemant Akolkar,**  
A.M.A. & N.C.S.C., Rajapur

**Time: 12:00 to 1:00 pm**

**Topic: Problems on  
stereochemistry**



<https://us02web.zoom.us/j/81955544006?pwd=S09CRVJsWmUcWpVdGEVbGJnUjcydz09>

**Dr. Kirti Mahanwar,**    **Dr. Kulbhushan Sasane,**  
Members,  
Organizing Committee

**Dr. Hemant Akolkar,**  
Coordinator & Head,  
Department of Chemistry



**Dr. Ghansham Harale**  
Incharge Principal,  
A.M.A. & N.C.S.C. Rajapur



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## **Commerce Association**

### **Webinar Report**

Date :- 11<sup>th</sup> May 2022

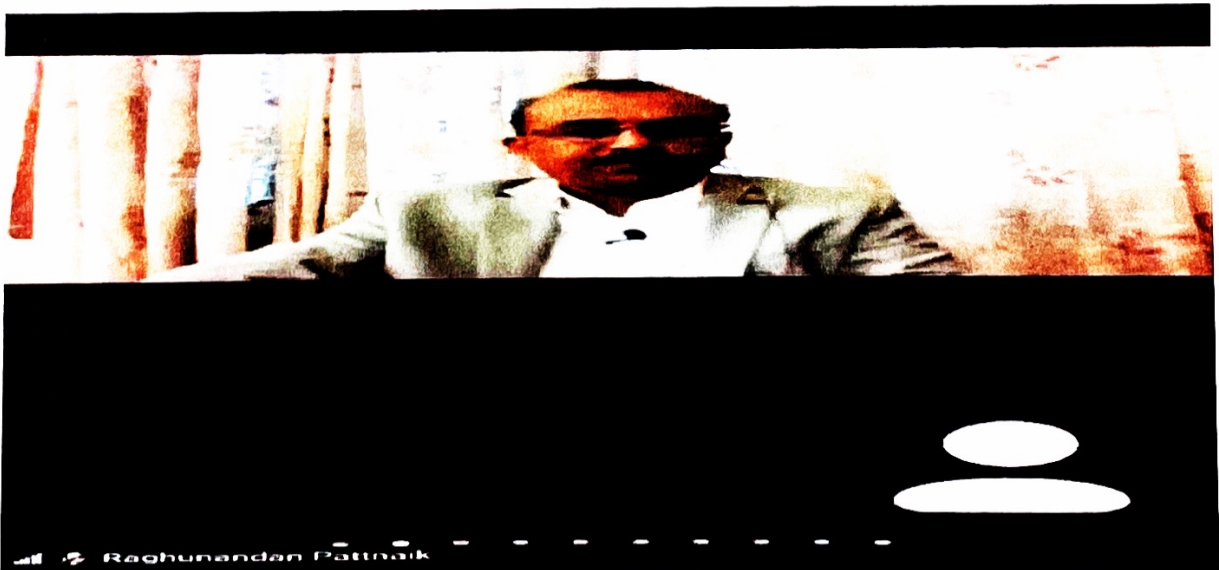
Webinar Topic – **'Financial Education on Indian Capital Market and Wealth Management'**

#### **Preamble –**

A one day webinar on 'Financial Education on Indian Capital Market and Wealth Management' has been conducted on 11<sup>th</sup> May 2022 at Abasaheb Marathe Arts and New Commerce, Science College, Rajapur. This webinar has been conducted for introducing Indian Capital Market and Wealth Management to the students.

#### **Participant Profile-**

In total, 131 students were participated in the webinar.



## **Description about the Program-**

Dr. Raghunandan Patnaik, a National Level Trainer, BSE, Mumbai delivered his presentation on the 'Financial Education for Indian Capital Market and Wealth Management'. In the session, the resource person explained the concept of Indian Capital Market, Money Market, debt, equity, bonds, debentures, risks and its management, the opportunities in the market for investment, awareness required for taking decision. He also solved queries of the students.

Dr. G.D. Harale, I/c Principal of the college as President threw light on the practical utility of organizing the webinar on such a concept of the Indian Capital Market & Wealth Management. He also briefly explained the Rayat Shikshan Sanstha, Satara.

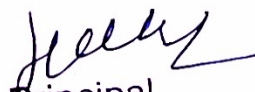
The head of Commerce Department Dr. A. V. Bhawe introduced the resource person and Mrs. M. A. Kamat expressed the vote of thanks.

The entire programme was co-ordinated with the support of Principal, staff and students of the Department of Commerce, Abasaheb Marathe Arts and New Commerce, Science College, Rajapur.

  
Chairman

**Commerce Association**



  
Principal  
A.M.A. & N.C.S. College  
Rajapur, (V. Gothne) Dist. Ratnagiri.