

**Rayat Shikshan Sanstha's**  
**Yahavantrao Chavan Institute of Science Satara**  
**(Autonomous)**

**Department of Chemistry**

**Lead College Activity**

**2021-22**

**Report**

**“Career Guidance and Opportunities in Higher Education”**


**28<sup>th</sup> May 2022 at Karmveer Auditorium**

The Department of Chemistry organized Guest Lecture entitled “Career Guidance and Opportunities in Higher Education” on 28<sup>th</sup> May 2022 at Karmveer Auditorium. The resource person for this event is Dr. Vijay Koshti working as Assistant Professor, D. P. Bhosale College, Koregaon. The president of function is the Coordinator of Lead College Dr. S. D. Shaikh. The welcome address given by the Head of Department Dr. Mrs. S. T. Mahanavar. The departmental coordinator of lead college programme is Dr. S. B. Kamble. He introduces the resource person Dr. Vijay Koshti. The comparer of the programme is Miss. P. S. Kadam.

The resource person Dr. Vijay Koshti in his talk focus on the opportunities of chemistry graduates in higher education. He also explain for getting such

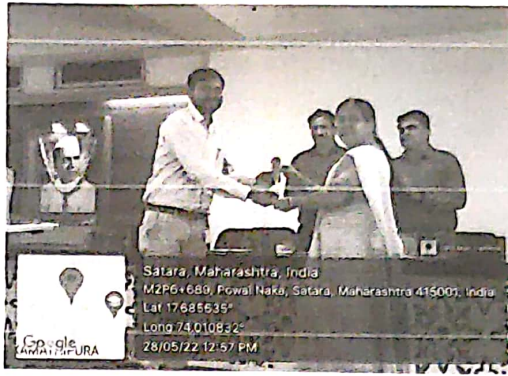
opportunities in higher education what is the plan of study, how prepare for entrance examination, the pattern of entrance examination as per different institutes or universities, central universities etc. Further he talks on integrated M.Sc., Ph.D. programme of national institutes like IISER, NIT, IIT etc. and explains the benefits of integrated programme. He discusses in details about international opportunities after graduations as well as post graduations. He ignites the budding graduates for taking higher education. He also explains the wide scope of opportunities in chemistry after graduation.

The presidential address given by Dr. S. D. Shaikh, he said the importance of lead college activity and explains such activities important for student development. The vote of thanks proposed by Dr. G.D. Kokate. The UG students from the institute and from the different colleges affiliated to Shivaji University are participated. The total participants for this activity are 230. All the faculty of the department takes good efforts to organize this lecture under lead college activity.

  
**Dr. S. B. Kamble**  
Coordinator

  
**Dr. Mrs. S. T. Mahanwar**  
Head Dept. Chemistry

# Photo Gallery



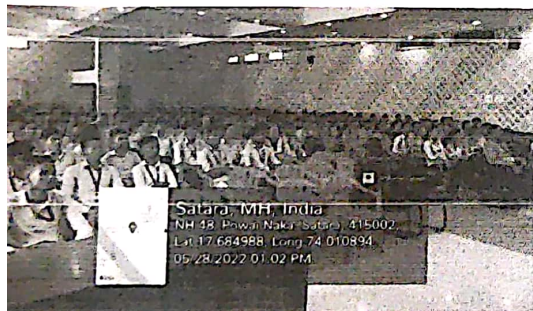
**Welcome of Dr. Vijay Koshti Resource Person**



**Dr. S. D. Shaikh Coordinator Lead College**



**Welcome of Head of the Department**



**Lecture by Dr. Vijay Koshti**



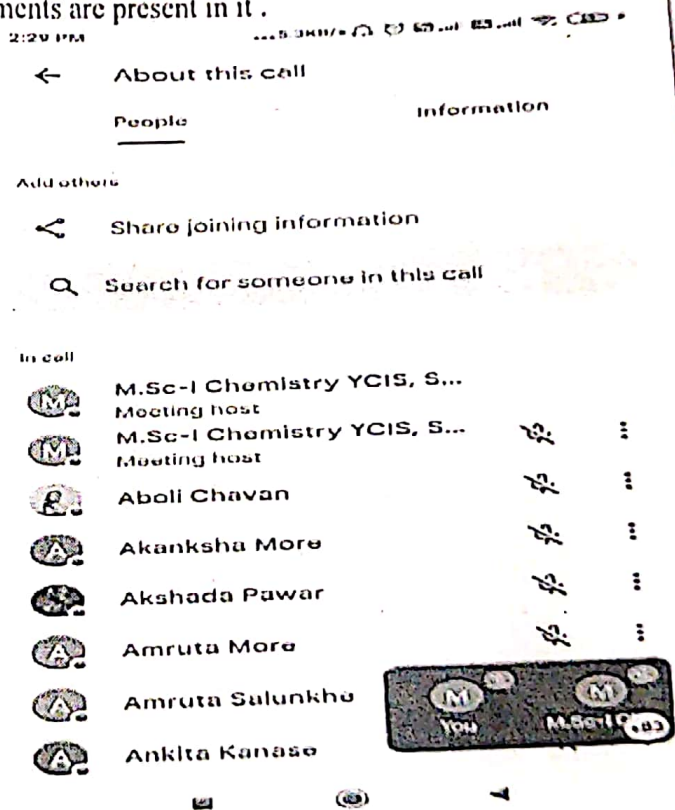
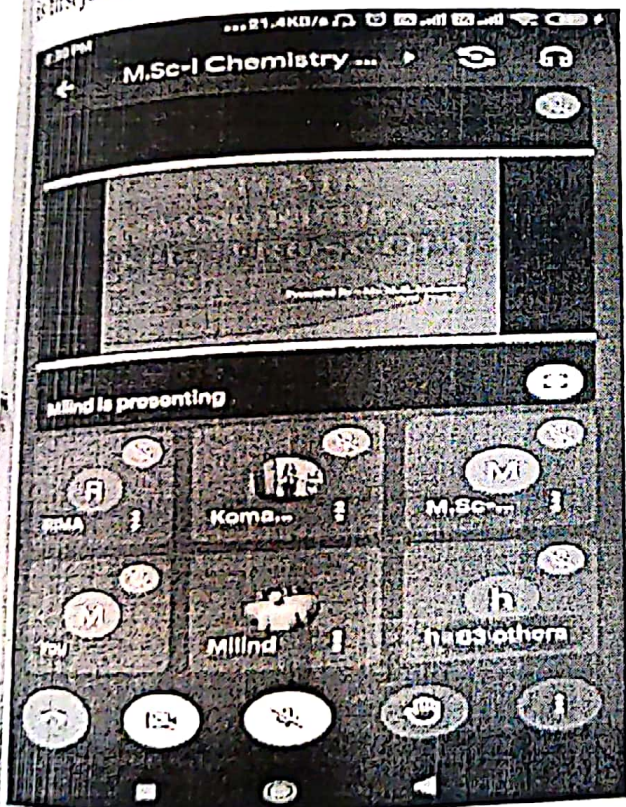
**B.Sc.-III Year Students for Lecture**

RayatShikshan Sanstha's  
**Yashwantrao Chavan Institute of Science, Satara (Autonomous)**  
 Department of Chemistry  
 Organized Guest Lecture on  
**Gas Chromatography and atomic absorption Spectroscopy**  
**instrument Technician**  
 For M. Sc. I Skill Course Students  
 Saturday, 29-01-2022 At 02:30 to 03:30 pm  
 Platform - Google Meet

**Report**

A Virtual Guest lecture on Gas Chromatography and atomic absorption Spectroscopy instrument Technician for M. Sc. I Skill Course Students was conducted on Saturday, 29-01-2022 At 02:30 to 03:30 pm. Mr. P. V. Bhise, Head, Department of Chemistry, welcome Chief Guest and Miss. V. V. Pawar introduced resource person Dr. M. R. Nalawade. He is currently working as Assistant Professor at Lal bahaddur Shastri Satara.

In the Lecture he delivered a talk on "Gas Chromatography and atomic absorption Spectroscopy instrument Technician". He introduced the Basic Concepts in Analytical Chemistry. Demonstrated the actual working in laboratory, various experimental methods of Qualitative and Quantitative analysis. He also focused on the analysis of compound into its proximate or ultimate parts. He aware students about what is first job of analyst and how to determine, which elements are present in it.



He also delivered a lecture on "AAS" in detail including Analytical chemist has important role in modern industries. He also illustrated the techniques of purification of raw material because it may cause impurity in final product. She suggested students to manufactured product is subjected to quality control to ensure that essential components are present.

He also suggested that analyst must be familiar with practical details of the various techniques, sample size, and purpose for which analysis is required. 65 students were present virtually and are benefited by this guest lecture. Session was concluded by Miss. P. S. Pawar by expressing vote of thanks to speaker and participants. We are thankful to our beloved HOD, Mr. P. V. Bhisre and Hon. Principal Dr. J. Jadhav for motivating us for arranging and conducting such kinds of activities.

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Skill Course  
Dipl. Coordinator (M. Sc. I )

*Handwritten signature*  
Head,  
Department of Chemistry  
Department of Chemistry,  
Salara (Autonomous)

Rayat Shikshan Sanstha's  
Yashwantrao Chavan Institute of Science, Satara (Autonomous)  
Department of Chemistry  
Organized Guest Lecture on  
Pickle making Technician and Pickle packaging Technician  
Under RUSA

For B. Sc. III Skill Course Students  
Friday, 27-01-2022 @ 3 to 4 pm  
Platform - Google Meet

### Report

A guest lecture on Pickle Making Technician and Pickle Packaging Technician for B. Sc. III Skill Course students was conducted on 27-01-2022 at 3 pm using google meet link. Dr. S.P. Waghmare welcomed and introduced resource person Mr. Lokhande i/r Asst. Professor, Management and science, Training and consultancy Department, Dr. Babasaheb Ambedkar Marathwada University



They guided our students regarding future in this Pickle making technician and also Pickle Packaging Technician. They explained students about the pickle making process and also packaging process. Near about 100 students benefited by this guest lecture. Finally Ms Dhane D.N. express vote of thanks.

*S.P. Waghmare*

Dr. S. P. Waghmare  
Skill Course Coordinator (B. Sc. III)



Rayat Shikshan Sanstha's  
Yashwantrao Chavan Institute of Science, Satara  
(Autonomous)

Department of Chemistry and Career Guidance Training and Placement  
cell

Jointly Organized  
Campus Placement Drive

For

**Datwyler Pharma Packaging India Pvt. Ltd**

For B.Sc-III and M.Sc Chemistry Students

Friday, 06-05-2022 @ 10.30am

### Report

Campus Drive For Datwyler Pharma Packaging India Pvt. Ltd. was conducted on 06<sup>th</sup> May 2022 at 10.30 am in Yashwantrao Chavan A1-8 hall. The Committee members for this drive were Mr. Shivam Ghadage (HR. Datwyler sealing solution), Mr. Nilesh Kawale (Asst. Manager Moulding), Sunny Katrat (Head, Washing and omniflex dept). Welcome address for the program was given by Ms P. S. Kadam.(Dept of Chemistry). Mr. S. S. Patil (Training and Placement Officer YCIS Satara) introduced the interview committee members. Hon. Principal Dr. B. T. Jadhav sir felicitate guest.

Mr. Shivam Ghadage (HR. Datwyler sealing solution), given the representation about company.

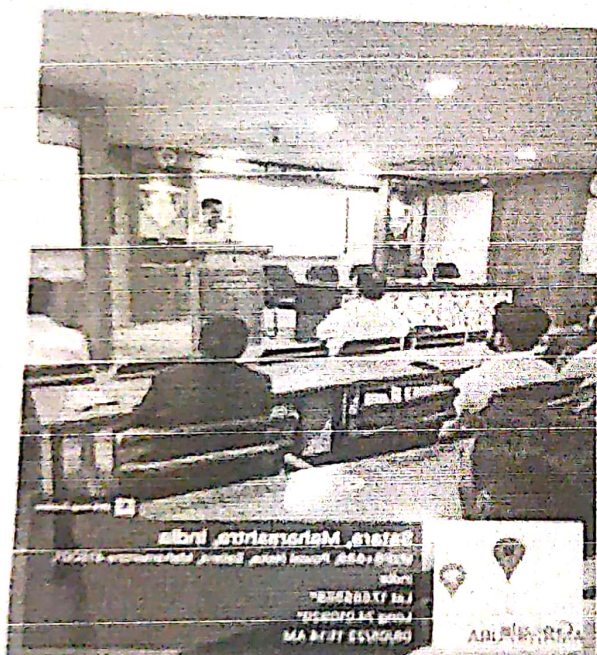
He told about the departments of company and what type of work is their. Datwyler is focusing on high-quality, system-critical elastomer components and has leading positions in attractive global markets such as healthcare, mobility, food & beverage and general industry. Datwyler concentrates on markets that offer opportunities to create more value and sustain profitable growth. With more than 20 operating companies, sales in over 100 countries and some 7'000 employces Datwyler, headquartered in Switzerland, generates annual sales of more than CHF 1'000 million. Looking back on more than 100 years of successful corporate history, the company has

been listed on the SIX Swiss Exchange since 1986. After that vote of thanks was expressed by Dr. R.V. Hangarge (Departmental Placement Officer, YCIS Satara).

Interviews were started at 11.30 am. at A1-8 hall, and YC-CIII hall. There were fifty five students of B.Sc III and M.Sc II ( Chemistry and Microbiology ) attended the interview. Out of these students 14 selected by the company. Selected list of MSc students is awaited.

We are thankful to our beloved HOD, Ms. S.T. Mahanwar, and Hon. Principal Dr. B. T. Jadhav, Placement officers (chemistry) Dr. R.V. Hangarge and Training and placement officer(YCIS satara) Mr. S.S. Patil to conduct such kinds of interviews to get opportunities for our students and learn many things.

### Photo Gallery



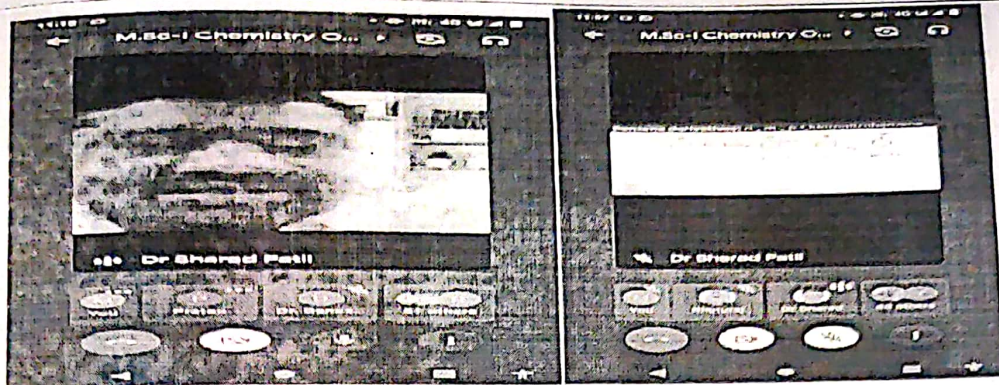
*R.V. Hangarge*  
 Dr. R. V. Hangarge  
 Placement Coordinator (Dept.  
 Of Chemistry)

Mr. S. S. Patil  
 Placement officer  
 Y.C.I.S. Satara

*S.T. Mahanwar*  
 Dr. S. T. Mahanwar  
 Head,  
 Department of Chemistry  
 Head,  
 Department of Chemistry  
 Y.C.Institute of Science,  
 Satara(Autonomous)







He also suggested to students that how to develop dyeing methods in dye chemistry. 85 students were present virtually and are benefited by this guest lecture. Session was concluded by Miss.P.S.Pawar by expressing vote of thanks to the speaker and participants. We are thankful to our beloved HOD, Mr. P. V. Bhise and Hon. Principal Dr. B. F. Jadhav for motivating us for arranging and conducting such kinds of activities.

*P. Pawar*

Miss.P.S.Pawar  
Incharge

*[Signature]*  
Head

Department of Chemistry

Rayat Shikshan Sanstha's  
Yashwantrao Chavan Institute of Science, Satara (Autonomous)

Department of Chemistry

Class: B.Sc. III (Chemistry)

## Report on Interview training

The department of Chemistry conducted interview training program for BSc III students on 04/05/2022 in the A-1-8 hall. The introduction of the program was given by Dr. R. V. Hangarge. The first session was conducted by Mr. A. D. Kadam on basic Chemistry questions and necessary subject knowledge tips. He took 45-50 min interactive session with students. Thirty-nine students were participated in the training.

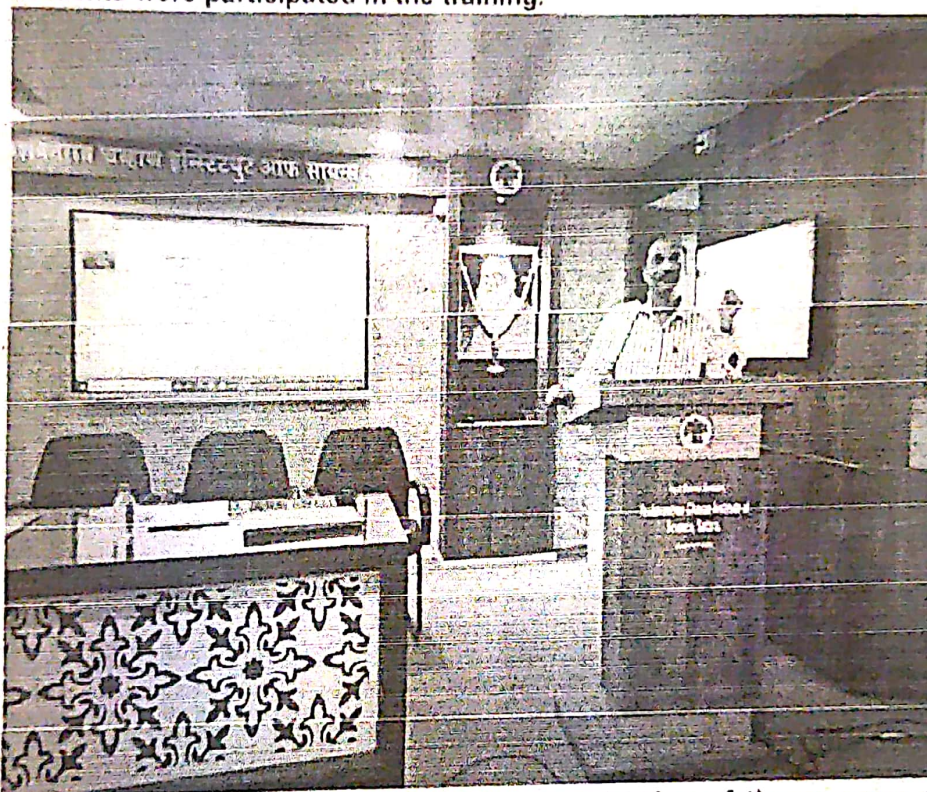
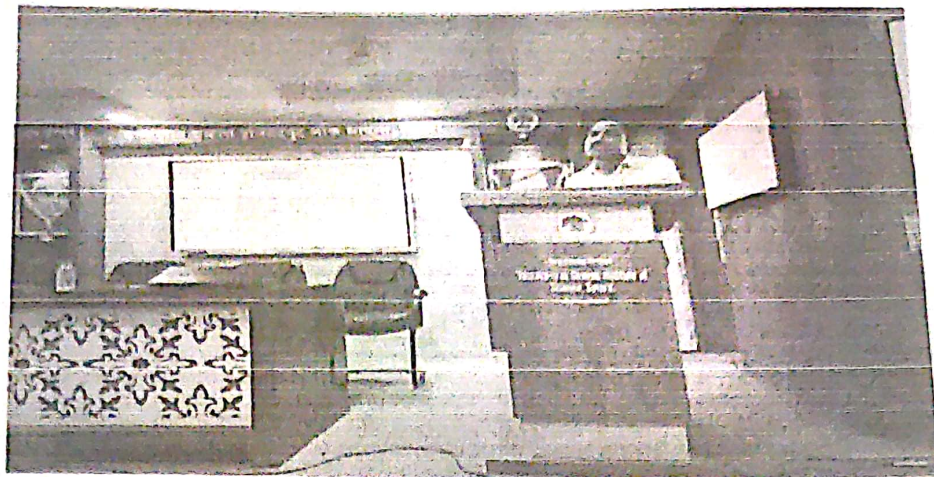
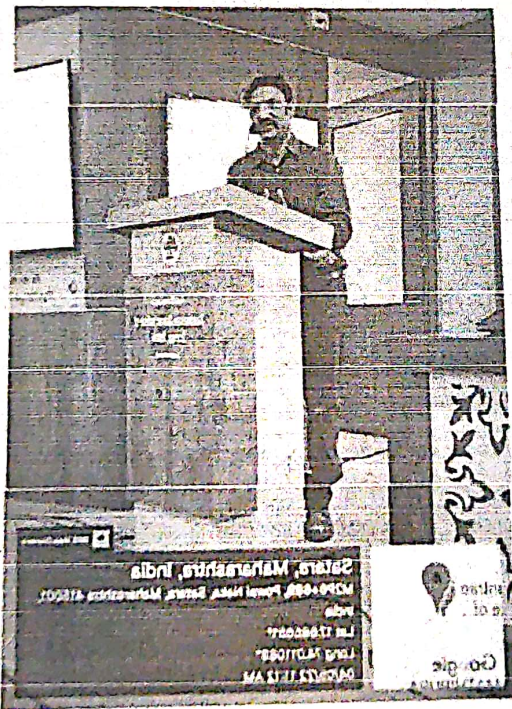


Image: Dr. R. V. Hangarge while giving introduction of the program and resource persons.



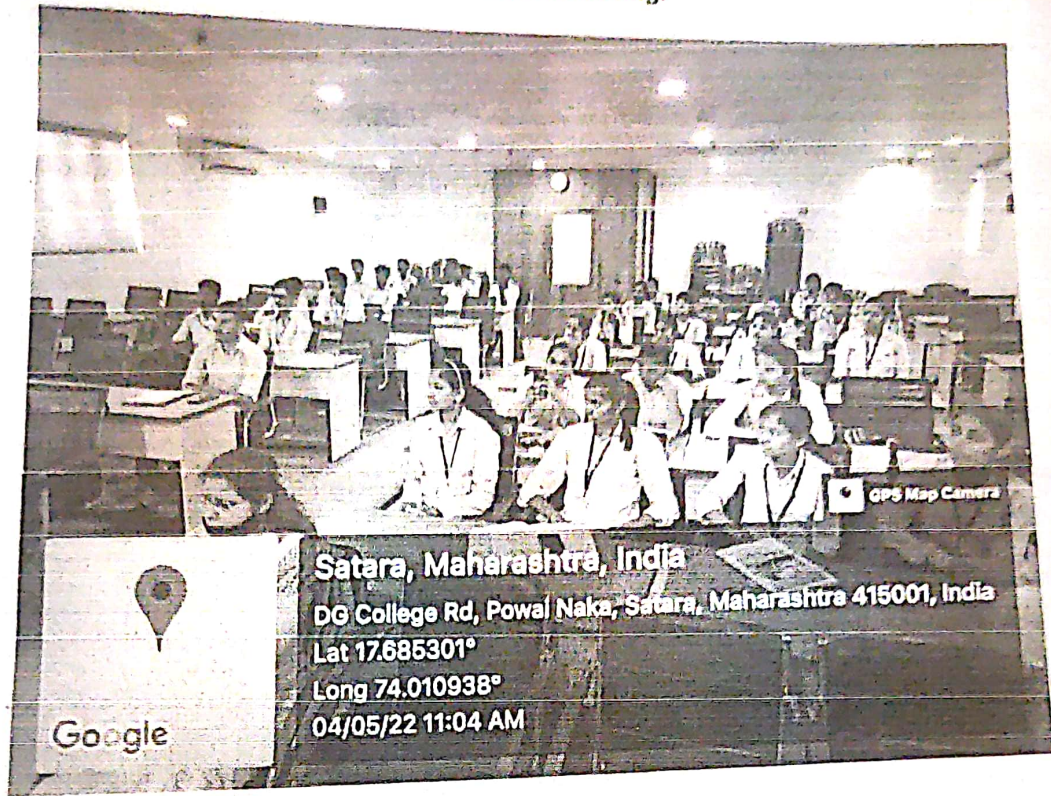
**Image: When A. D. Kadam Sir interacting with Students.**

The second session was conducted by Dr. S. B. Kamble sir on basic Chemistry questions, etiquettes, manners, gestures and postures. He took 45-50 min interactive session with students. Thirty-nine students were participated in the training.



**Image: Dr. S. B. Kamble while interacting with students on interview training.**

Image of the present students for interview training.



Concluding remarks given by Dr. P. A.. Bharad.

*R. V. Hangarge*  
Dr. R. V. Hangarge  
Dept. placement Coordinator

*P. A. Bharad*  
Head  
Department of Chemistry  
YCIS, Satara  
**Head,**  
Department of Chemistry  
Y.C. Institute of Science,  
Satara(Autonomous)

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Rayat Shikshan Sanstha's  
Yashwantrao Chavan Institute of Science, Satara  
(Autonomous)

Department of Chemistry, YCIS, Satara

Organized

Guest Lecture on

**"The Chemistry of Cosmetics"**

Under RUSA

For Second Year Diploma Students

Saturday, 19-03-2022 @ 9:30 am

Google Meet Link- <https://meet.google.com/jyu-ownk-ehb>

### Report

A guest lecture on "The Chemistry of Cosmetics" for second year diploma students was conducted on 19-03-2022 at 9:30 am in online mode. The Resource Person for the lecture was Mr. Sagar S. Deshpande (Owner, Altron Chemicals, Satara). Welcome and introduction of program was given by the Dr. P. A. Bharad. The President for the program was Dr. S. T. Mahanwar (Head, Department of Chemistry).

Mr. Sagar S. Deshpande started his talk with explaining the branding trade now-a-days. Later he explained the chemical formulations of various compounds in his talk. He also discussed the how to check the safety of cosmetics products and how to make it temperature resistant. He ended his marvalous talk with explaining the market scenario for cosmetics. Ms. A. S. Chaudhari expressed vote of thanks.

28 participants were attended the talk and are benefited by this webinar. We are thankful to our beloved HoD, Dr. S. T. Mahanwar and Hon. Principal Dr. B. T. Jadhav, Vice-Principal Dr. V. Y. Deshpande for motivating us for arranging and conducting such kinds of activities. Also to IQAC coordinator Dr. J. J. Chavan and Dr. D. M. Karanjkar (Coordinator, RUSA) for providing financial assistance through RUSA.

MIND IT!!!  
• CLEAVERNESS IS  
NOT WISDOM

B.Sc Chemistry is presenting



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You




ABOUT THIS CALL


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Dr. S. T. Mahapatra  
Head



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Dr. C. A. Bhand  
Coordinator  
B.A. Honors Diploma

  
Dr. S. T. Mahapatra  
Head  
Department of Chemistry



**Rayat Shikshan Sanstha's  
Yashwantrao Chavan Institute of Science  
(Autonomous)  
Career Guidance, Training & Placement Cell**



**Campus Placement Drive  
2021-22**

For  
**EcoGreen BioSciences Pvt. Ltd.**



**Job Profile:**

- Quality control officer (M.Sc. Chemistry)
- Microbiologist (M.Sc. Microbiology / Biotech)
- Quality Assurance Officer (M.Sc. / B.Sc. Chemistry)
- Production Supervisor (B.Sc. Chemistry)
- Agronomist (M.Sc. Botany / AGPM)

- Students shall come in their college uniform.
- College ID card is Mandatory.
- They shall also carry their education certificates.
- Online registration is compulsory.

**Register Here:**

<https://forms.gle/rEY36LSxjcCcbMzR7>



**Day & Date : Thursday; 17/02/2022**

**Time : 10:00 am**

**Venue : YCIS, Satara**

**Mr. S. S. Patil  
Placement Officer**

**Mr. P. V. Bhise  
Head, Department of Chemistry**

**Prin. Dr. B. T. Jadhav  
Principal  
Yashwantrao Chavan Institute of Science  
Satara (Autonomous)**

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Rayat Shikshan Sanstha's  
Yashwantrao Chavan Institute of Science, Satara  
(Autonomous)

Department of Chemistry, YCIS, Satara  
Organized  
Plotting Atomic Orbitals In Computer Software Activity - 2022  
On 18<sup>th</sup>, 20<sup>th</sup> and 21<sup>th</sup> May 2022

## Report

Department of Chemistry, Yashwantrao Chavan Institute of Science (Autonomous) has been organized **Plotting Atomic Orbitals In Computer Software**. This activity was conducted in offline mode at IT/CS Lab of Jr. College (B-1-7) at Yashwantrao Chavan Institute of Science, Satara (Autonomous).

The activity was organized on 18<sup>th</sup>, 20<sup>th</sup> and 21<sup>th</sup> May 2022 For all M.Sc.I year students at 9:30 a.m. to 11:15 a.m. by **Ms. Poonam R. Kumbhar**. The main aim behind this activity was to draw polar plots of atomic orbitals like a 1s, 2p, by using angular part of hydrogen atom wave function. A polar plot was used to define a point in space within what was called the polar co-ordinate system, where rather than using the standard X and Y-coordinates, each point on a polar plane was expressed using these two values. In Microsoft Excel, a chart was often called a graph. It was a visual representation of data from a worksheet that can bring more understood the data than just looked at the numbers. Hydrogen atom contained a nucleus and an electron, quantum mechanics allowed one to predict the probability of finding the electron at any given radial distance.

### Objectives :-

- 1) Locate points in a plane by using polar co-ordinates .
- 2) Convert points between rectangular and polar co-ordinates.
- 3) Draw polar plots from given data.

### Learning Outcomes :-

- 1) Using graphing software to teach about algebraic forms .
- 2) A study of technology –supported practice in M.Sc. Physical Chemistry.
- 3) Teachers adapt their classroom practice and develop their computer software skill by adpting software practice activity.
- 4) To plot quick graph using M.S. Excel.

## Activity Schedule :-

18/05/2022 – Analytical Chemistry.-Total Number of Students = 42

20/05/2022 – Inorganic Chemistry - Total Number of Students = 43

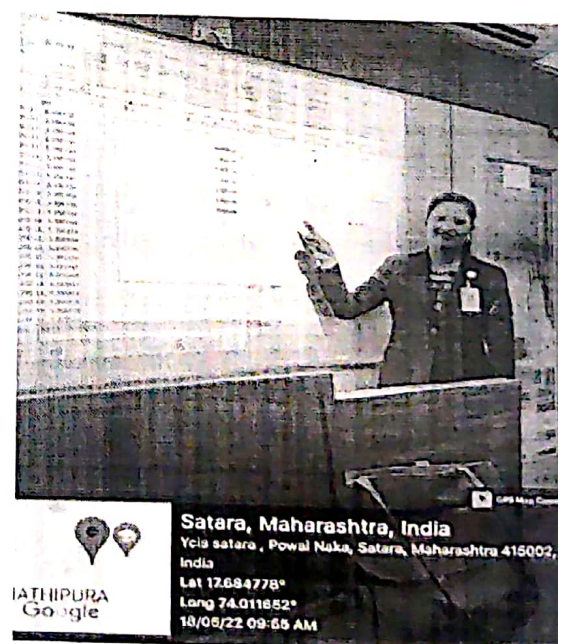
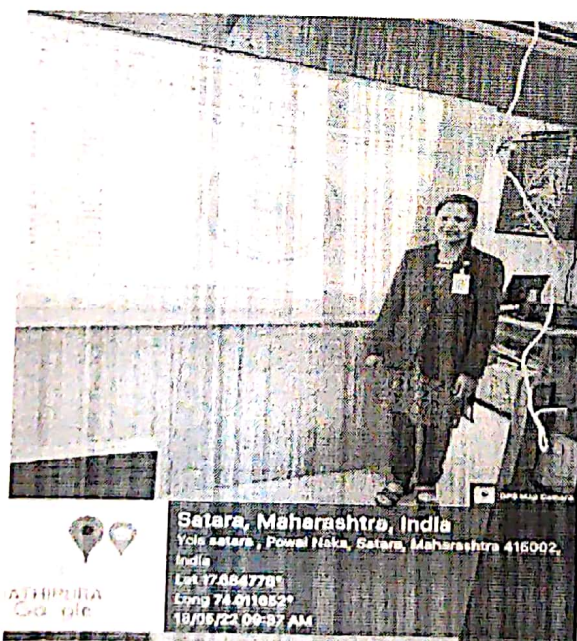
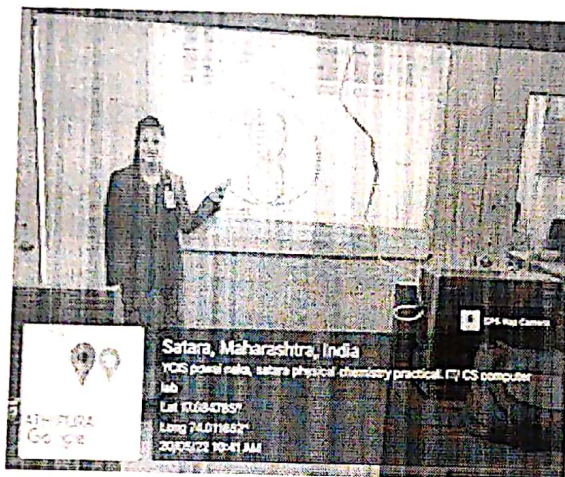
21/05/2022 – Organic chemistry + Physical Chemistry. Total Number of Students = 61

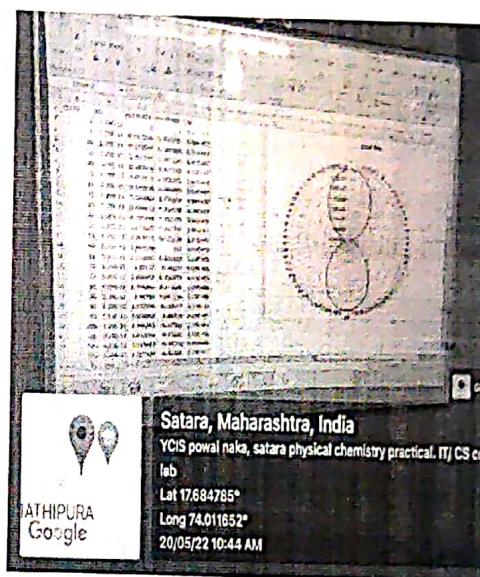
Available P.C. in IT lab = 30

Place- Hall No- IT/CS Jr.College Lab- B-1-7

## Benefits of drawing polar plots using M.S.Excel for M.Sc.I Physical Chemistry Students –

- 1) Increase knowledge of M.S.Excel.
- 2) Plotting Graph in software system.
- 3) Student centric activity.





Thanks to :-

- 1) Principal Dr. B. T. Jadhav Sir ( YCIS, Satara )
- 2) Prof.Dr.D.H.Dagade Sir – Shivaji University,Kolhapur for providing data and guidance. ..
- 3) Prof. Dr. A.P.Torane Sir – Vice Principal YCIS,Satara.
- 4) Prof.Dr. S.T.Mahanwar –Head of the Chemistry Department for permission.
- 5) Jr.College Teacher – Mr.Babar Sir – IT/CS Jr.college lab for providing computer lab.
- 6) Dr. RajashriGhavane madam for guidance.

*Kumbhar*

Activity Incharge

( Ms.Poonam R. Kumbhar )

*Prasad*

M.Sc.Co-ordinator

*Smahar*

Head

Department Of Chemistry



Rayat Shikshan Sanstha's  
Yashwantrao Chavan Institute of Science, Satara  
(Autonomous)

Department of Chemistry, YCIS, Satara

Organized

Two Day's Hands on Training

"Quality Control Aspects"

Under Skill Development Program

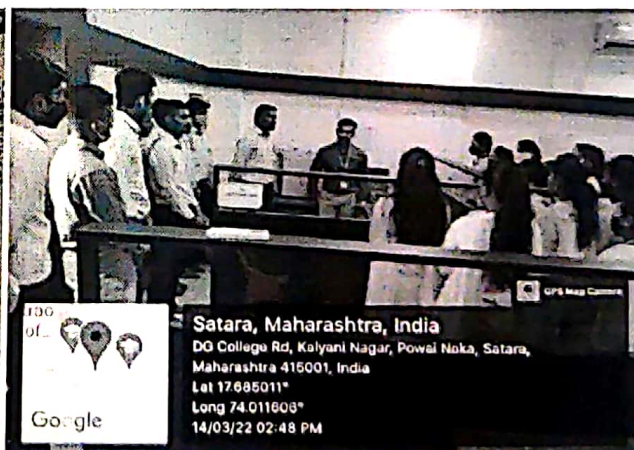
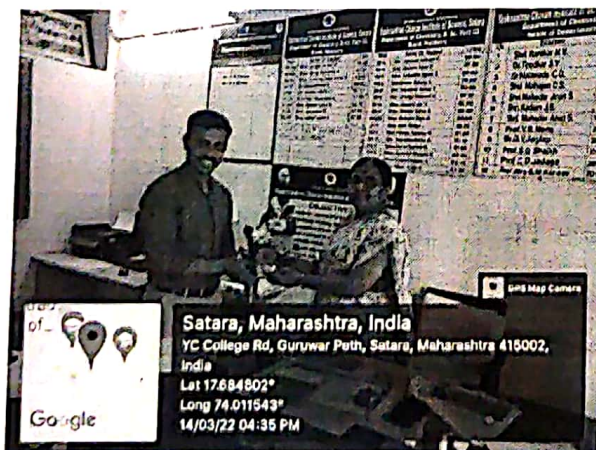
For M. Sc- I Chemistry Students

Friday 11-03-2022 @ 9.30am and Monday 14-03-2022 @ 3.00pm

### Report

A Two Days Hands on Training on Gas Chromatography And Atomic Absorption Spectroscopy Technician M.Sc. I Chemistry students was conducted on 11-03-2022/14-03-2022 at 9.30am/ 3pm in offline mode. The resource person for the talk was Mr. S. V. Tanpure (Assistant Professor, SGM College Karad), second resource person Mr. P. M. Gaikwad (Assistant Professor, YCIS Satara), third resources person Dr. V. B. Ghanwat (Assistant Professor, YCIS Satara). Welcome address for the program was given by Miss. V. V. Pawar (Coordinator of M.Sc I Skill course Chemistry). Mr. P. M. Gaikwad introduced the resource person Mr. S. V. Tanpure.

Mr. S. V. Tanpure explained the definition of quality assurance at the beginning of talk. Later he explained, Working and Handling of GC. He also explained importance of strength, industrial important for GC. Second resource person Mr. P. M Gaikwad explained HPLC instrumentation working and handling. Third resource person Dr. V. B. Ghanwat explained the UV spectroscopy instrumentation, working and handling. Vote of thanks for the session was expressed by Ms. V. V Pawar.





115 participants were benefited by this lecture. We are thankful to our beloved HOD, Dr. S. T. Mahanwar and Hon. Principal Dr. B. T. Jadhav, Vice-Principal Dr. V. Y. Deshpande for motivating us to arrange and conduct such kinds of activities. Also to IQAC coordinator Dr. J. J. Chavan and Dr. G. S. Jadhav (Coordinator, Skill Development Program) for providing financial assistance through Skill Development Program.

*V. V. Pawar*  
Incharge

Miss. V. V. Pawar

*G. D. Kokate*  
Coordinator

Dr. G. D. Kokate

*S. T. Mahanwar*  
Head,  
Department of Chemistry  
Y. Department of Science,  
Satara(Autonomous)

**,Rayat Shikshan Sanstha's  
YashvantraoChavan Institute of Science,Satara (Autonomous)**

**Department of Chemistry  
Organized Guest Lecture on**

**Bio-Chemicals and Food Analysis**

**For 1 year Advance diploma Students**

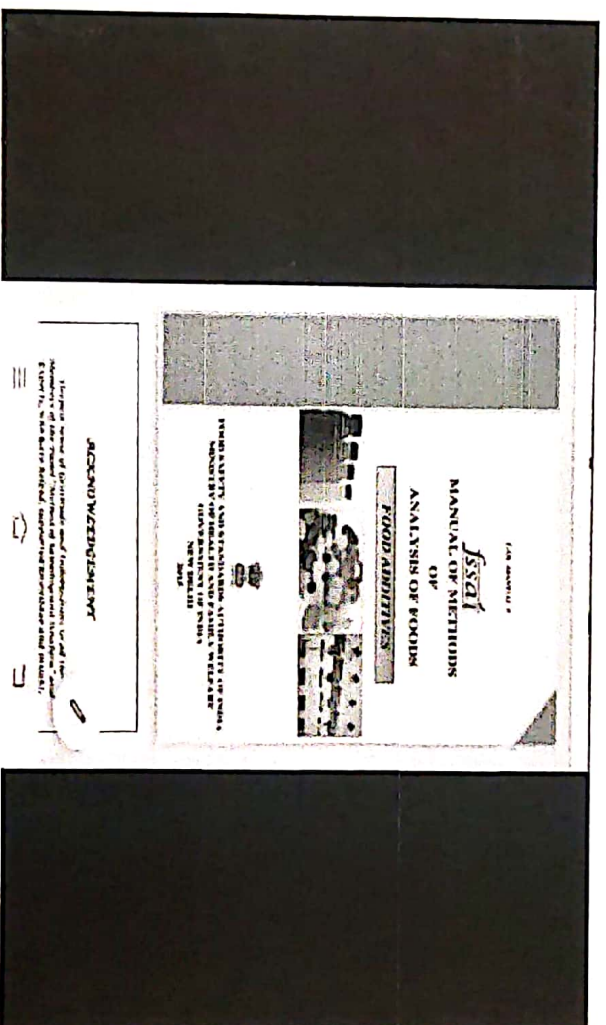
**Saturday , 10-07-2021. Time-11:00 to 12:00am**

**Platform - Google Meet**

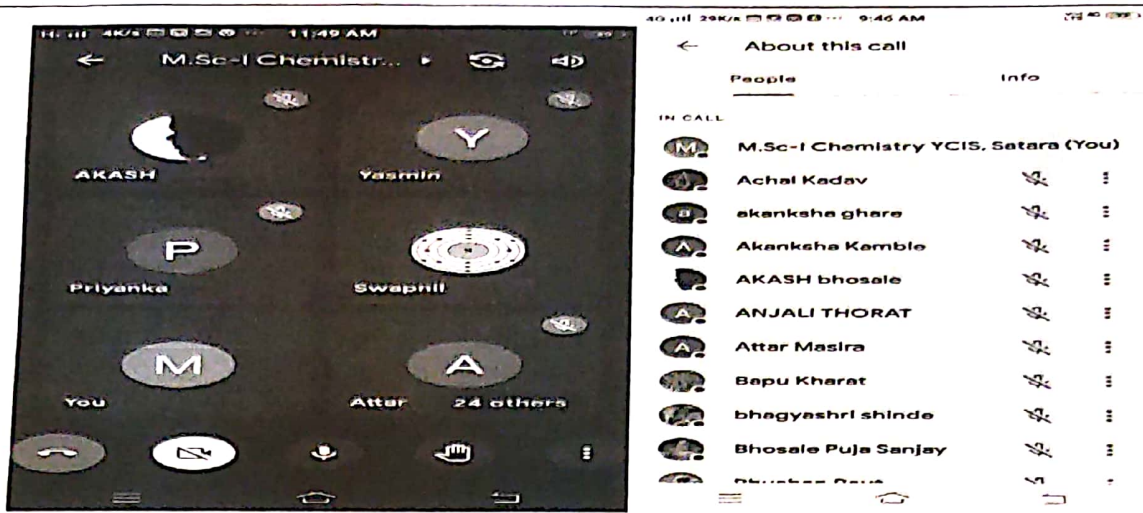
**Report**

A virtual guest lecture on Bio-Chemicals and Food analysis for 1 Advance diploma students was conducted on 10-07-2021 at 11:00am. Miss. P. S. Pawar Madam welcomed and introduced resource person Mr. P.R. Dure. He is currently working as Assistant professor at YCIS Satara, Department of Food Processing and Packaging(Entire). He delivered a lecture in two sessions.

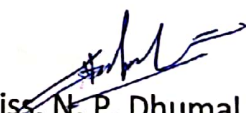
In the first part he delivered a talk on "Bio-Chemicals and Food analysis ". He introduced the basic quality In Natural food and Synthetic Food including its Physical, Chemical and Biological properties. He demonstrated the actual working in laboratory, various experimental methods and tests used to detect the Vitamins, microorganisms present in Food. He also focused on the health hazards caused by Synthetic Food. She awared students about the climate change, farming methods, excessive use of fertilizers and their effects on purity of Food.



In the second part of the session she delivered a lecture on "Analysis of Natural Food" in detail including its sources, causes, harmful effects on environment. He also illustrated the techniques of purification at various levels such as primary, secondary and tertiary treatment methods. He suggested students to identify the Natural and synthetic food,Preparation of samples, jam, jellies Preservatives Marmalades.



After the session was over many students interacted actively with resource person clearing their doubts. 24 students were present virtually and are benefited by this guest lecture. Session was concluded by Miss.N. P. Dhumal by expressing vote of thanks to the speaker and participants. We are thankful to our beloved HOD, Mr. P. V Bhise and Hon. Principal Dr. B. T. Jadhav for motivating us for arranging and conducting such kinds of activities.

  
Miss. N. P. Dhumal  
Advance diploma





Yashwantrao Chavan Institute of Science, Satara (Autonomous)  
Established: 1965

## Placement Cell and Department of Chemistry

### A Lecture Series on "Interview skills for Chemistry Students "

#### Report

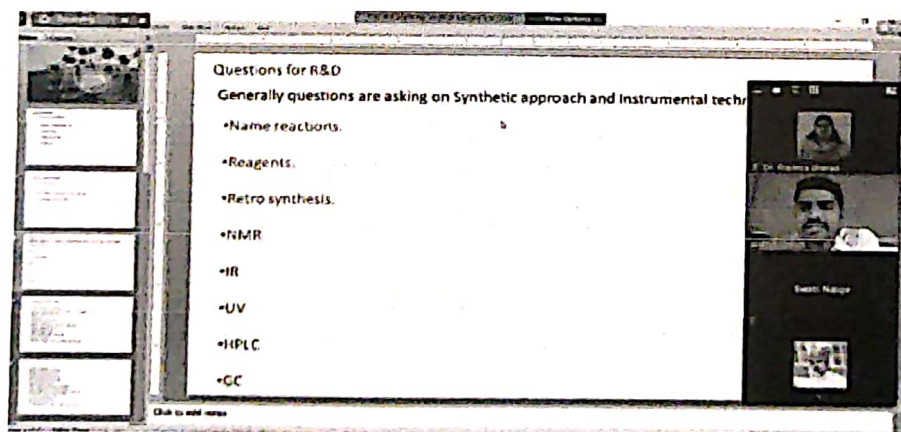
Placement Cell and Department of Chemistry organized a online lecture series on "Interview skills for Chemistry Students" for B. Sc. III and M.Sc.II students of Chemistry on 09<sup>th</sup> July, 2021. The program started with welcome and introductory speech by Mr.S.S.Patil, Chairman, Placement cell. After that Presidential speech was delivered by Mr.P.V.Bhise, Head, Chemistry Department. This activity was organized to guide the students regarding the interview skills required for Chemistry Students.



Speaker 1: Ms. Swati. S. Nalge, Assist. Professor, YCIS.

The first session started with the introduction of speaker Miss. Swati. S. Nalge, Assistant Professor, YCIS by Dr. M. S. Barge. The speaker started the session with discussing the do's and don'ts for interview skills. She also gave important suggestions while approaching to any industrial interview.

At last she discussed various types of questions related to physical and inorganic chemistry asked in interviews in an interactive session.



Speaker 2 : Mr. Avdhut. D. Kadam, Assist. Professor, YCIS.

The second session started with the introduction of second speaker- Mr.A.D.Kadam,Assistant professor,YCIS by Dr.G.D.Kokate.Mr.Kadam Sir also discussed various question based on Organic and Analytical Chemistry.Students interactively participated in both session.This lecture series was conducted under the guidance of Principal Dr. B. T. Jadhav.Session was concluded by Dr.S.P.Wagmale.Comparing was conducted by Dr.P.A.Bharad.Feedback was taken from students.At this time, around 150 students from B.Sc.III and M.Sc.II took the advantage of this training workshop by participating virtually and very enthusiastically through interactive sessions and doing various activities.Dr.S.P.Wagmale expressed the vote of thanks to everyone for their contribution to this work and making this event successful.



Departmental Co-ordinator

Placement Cell



Head

Department of Chemistry