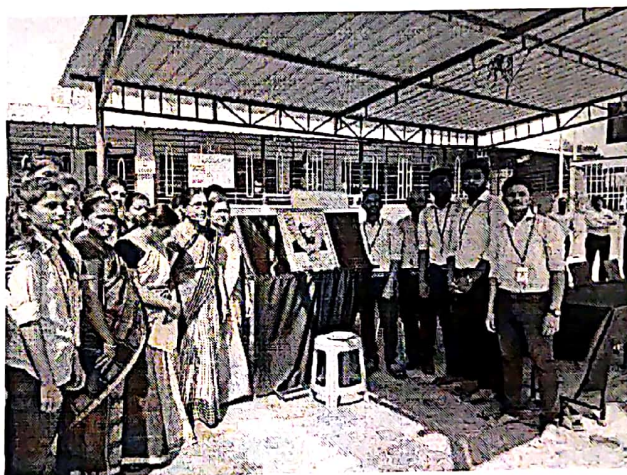


Rayat Shikshan Sanstha's  
Yashavantrao Chavan Institute of Science, Satara.  
Department of Chemistry

National Science Day celebration 2020

Social Awareness Programme

The students of B.Sc.III celebrated National Science Day in Appasaheb Kalyani School on 28<sup>th</sup> February 2020 .The students performed magic in chemistry experiments which are generally done to spread superstitions among the people. The students are explained actual science behind that and they aware the students on superstitions. For this programme all staff members and all students from 5<sup>th</sup> class to 9<sup>th</sup> class was present.





*Mooky*  
Head

Dept. of Chemistry

**Innovative Teaching Learning Method.**

(Student Centred Learning Activity)

Process Oriented Guided Inquiry Learning (POGIL)

**B.Sc.III – Chemistry**

**Activity Conducted By : Prof. Yadav A.N.**

**REPORT**

Student Centered Learning Activity named Process Oriented Guided Inquiry Learning (POGIL) was conducted on 20<sup>th</sup> January 2020 for B.Sc.III Chemistry Division – B and on 21<sup>st</sup> January 2020 for Division – A.

**The objective of this activity was :**

- i) To create interactive learning environment.
- ii) To empower students to construct their own understanding.
- iii) To develop creativity for learning process and problem solving.
- iv) To develop and enhance analytical reasoning skill.

**The activity was conducted in 3 Models :**

Model – 1- Standard enthalpy change and entropy change for different reactions.

Model – 2- Equilibrium Constant

Model – 3- Gibb's free energy

Students actively participated in the activity and solved the assignment with large enthusiasm. In these models Critical Thinking Questions were given to the students.

After completion of this activity a oral Feedback of the students was taken. It is found that students have developed interest in subject matter. The creative thinking ability was enhanced and analytical skill was also enhanced.

Student liked the activity and it helped to understand the theoretical part of the thermodynamics.

In both the divisions almost two hundred students were participated in this activity.



Department of Chemistry

Celebrating Centenary Year of Rayat Shikshan Sanstha



Rayat Shikshan Sanstha's

**Yashvantrao Chavan Institute of Science, Satara**

(Autonomous College)

**Satara - 415001, Maharashtra (India)**

Founder : Padmabhushan Dr. Karmaveer Bhaurao Patil, D.Litt.

NAAC Reaccredited at the 'A+' Grade with CGPA-3.57

UGC-CPE Status, DBT-STAR, DST-FIST ISO-9001-2015 Certified

Estd.: 1965

Uni No. UKF 565/U/5

Phone/Fax : 02162-234392

Principal :- DR. K. G. KANADE  
M.Sc., M.Phil., Ph.D.

Email : [ycis.satara65@gmail.com](mailto:ycis.satara65@gmail.com)

Website : [www.ycis.ac.in](http://www.ycis.ac.in)

Ref. No. 2114

Date : 14/8/2019

To,  
Dr. Girish Shambhaji Gund  
Korean Research Post Doctoral Fellow  
ESEM Lab, Department of Chemical  
Engineering, SKKU, Suwan, South Korea


Subject : Letter of Appreciation

Sir,

We are very much thankful for visiting our institute and delivering a very nice lecture to M.Sc. Chemistry Students on Career and Research, opportunities for Post – Graduate Students held on 14<sup>th</sup> August 2019.

The lecture was very informative and Students get inspired with your talk.

Thanking you,

  
Head  
Department of Chemistry

  
Principal  
Yashvantrao Chavan Institute of Science,  
Satara

O/c

**Yashavantrao Chavan Institute of Science, Satara (Autonomous)**

**Department of Chemistry**

**2019-2020**

**Guest Lecture**

**on**

**“Career and Research Opportunities for Post Graduate Students”**

**Date: 14/08/2019**

**Place: Hall No. D2-2**

**Resource Person: Dr. Girish Sambhaji Gund**

**Koraen Research Post-Doctoral Fellow**

**ESEM Lab, Department of Chemical**

**Engineering, SKKU, Suwon, South Korea.**

**President : Dr. K. G. Kanade**

**Director, YCIS, Satara.**

**Dr. S. B. Kamble**

**Coordinator**

  
**Prof. A. N. Yadav**

**Head of the Department**

Rayat Shikshan Sanstha's  
**Yashavantrao Chavan Institute of Science, Satara.**  
**(Autonomous)**  
**One Day Workshop**

**on**  
**"Opportunities for PG students after M.Sc."**

14<sup>th</sup> August 2019

**Organized by**  
**Department of Chemistry**

**REPORT**

One Day workshop on 'Opportunities for PG students after M.Sc.' was held on 14<sup>th</sup> August 2019 in our institute organized by department of chemistry under the guidance of Prin. Dr. K. G. Kanade. The resource person was Dr. Girish Gund, (South Korean research post-doctoral fellow)

**Inaugural function**

Inaugural function begins with the welcome of chief guest followed by introductory speech by the Head of the Department Prof. A. N. Yadav. He focused on importance and need of workshop for postgraduate students. Coordinator Dr. S. B. Kambale offered vote of thanks.



**Session**

Dr. Girish Gund first shared his views on autonomy of our institute and appreciated all the faculty staff for successful implementation of autonomy. Then he focused on the importance and implementation of some basic concepts in science and technology. He explained the actual applications of chemistry in various fields and advances related to renewable energy and need of this energy. He inspired post graduate students and highlighted advances of doing research in chemistry. He gave presentation on nanoscience and focused on his research area lithium ion battery.

## Some photographs of workshop



At the end of session, few representatives of the students expressed their views and congratulated the department, for successful organization of the workshop. Dr. V. B. Ghanwat proposed the vote of thanks. About 125 M.Sc. I and II students were present for the workshop.

**Co-ordinator**

*V. B. Ghanwat*  
**Head**  
**Department of Chemistry**



✓ Date - 17/01/2019

## Report on ICT Lecture

### Objectives :-

1. To support, enhance and optimise the delivery of information.
2. To improve student learning and better teaching methods.
3. To use information and communications technology in education.

### Abstract :-

Concept of EMF of a cell.

Measurement of EMF of a cell.

### Types of Electrodes-

1. Metal-Metal ion electrode
2. Amalgam electrode
3. Gas electrode P
4. Metal- insoluble salt electrode
5. Redox electrode

Conducted by Miss R. P. Kumbhar  
For B.Sc. II Div-A class  
on 17/01/2019 in the Hall 178

  
Head Of The Department

B.Sc. 2 Div-A

Total number of students-109

  
Teacher Incharge

✓ Miss P.R.Kumbhar







**Rayat Shikshan Sanstha's**  
**Yashwantrao Chavan Institute of Science (Autonomous), Satara**  
**Department of Chemistry**  
**Lead College Activity**

**Report**

**19/12/2019**


A series of lectures for the B.Sc. part III chemistry students on “*Career Guidance and opportunities after graduation*” was organized by chemistry department under lead college activity on **Thursday-19<sup>th</sup> December 2019.**

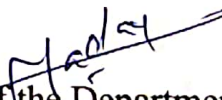
A Resource person was **Prof. K. Raj** from **Dnyansampada foundation Mumbai.**

He delivered two lectures on career guidance and opportunities after graduation. He gave valuable information of entrance examinations of NDA, Railway, Staff selection, UPSC, MPSC, sanitation, various industries.

Also he explained how to improve communication skill and personality. Also he gave information about time-management and interview techniques.

About 180 students of B.Sc.III chemistry were present for the lectures. Students get benefitted from these lectures.

  
Coordinator Lead College  
**Dr.S.B. Kamble**

  
Head of the Department  
**Prof. A. N. Yadav**  
**Head,**  
**Department of Chemistry**  
**Y.C.Institute of Science,**  
**Satara(Autonomous)**

Report

19/12/2019



Prof. K. Raj delivered lecture



Resourse Person Prof. K. Raj



Interaction of Prof. K. Raj with Students





Rayat Shikshan Sanstha's

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

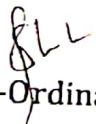
**Department of Chemistry**

**M.Sc 2019-20**

**Report on Guest Lecture**

**“ NET/SET guidance and Opportunities after M.Sc.”**

The department of chemistry, Yashwantrao Chavan Institute of Science, Satara had arranged a guest lecture of Mr. Kalpesh Khude for post-graduate students of M.Sc. Chemistry on **16th July 2019**. The lecture was arranged on “ NET/SET guidance and Opportunities after M.Sc.” He discussed the mechanism of NET/SET study. He had given some key points of NET/SET. Prin. Dr.K.G.Kanade was the president of function. He emphasised on various fellowships to post graduate students for Ph.D admissions. Prof.A.N.Yadav, Head Department of Chemistry guided students about the scope of chemistry in industry. Dr.S.B.Kamble guided about different opportunities for research in abroad countries. Dr.B.S.Shinde gave the vote of thanks

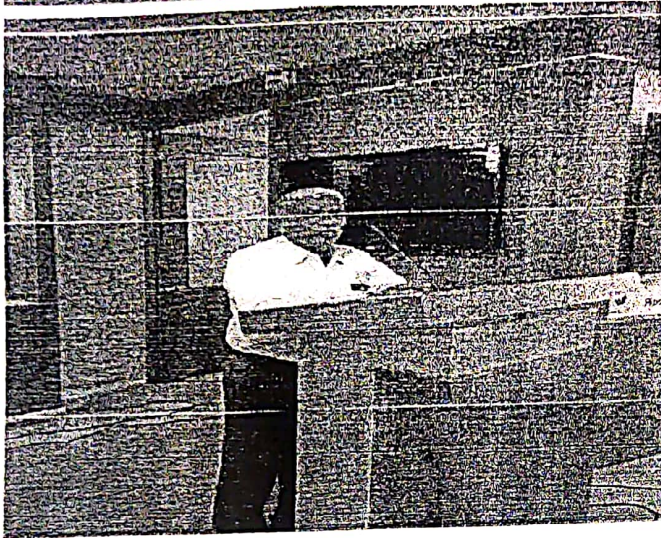
  
Co-Ordinator

M.Sc

  
Head

Department Of Chemistry

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Rayat Shikshan Sanstha's

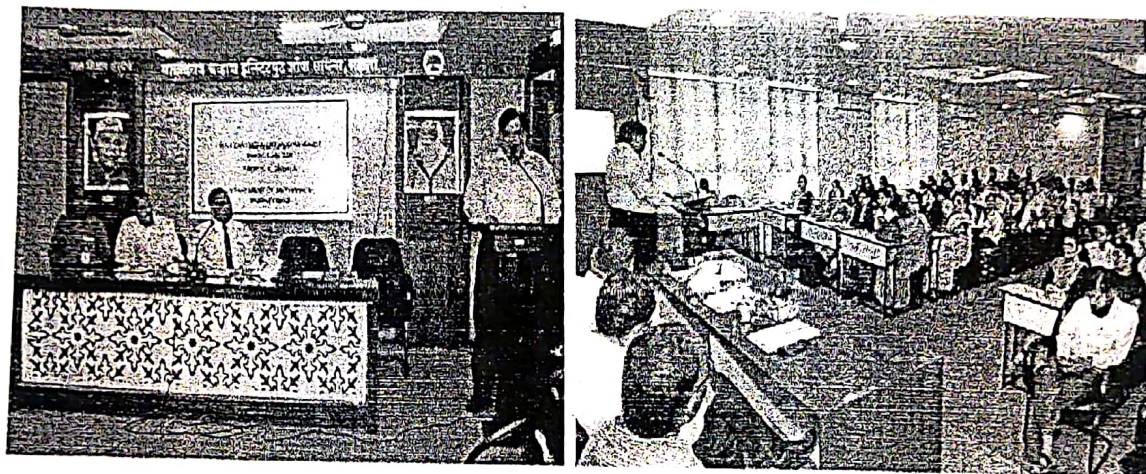
**Yashwantrao Chavan Institute of Science, Satara**

**Department of Chemistry organizes Guest lecture on**

**'Skill development in renewable energy sector'**

21/12/2018

The Department of Chemistry organized guest lecture by eminent personality Prof S.K. Shukla ,Department of Mechanical Engineering, Banaras University, Banaras delivered a lecture on Skill development in renewable energy sector, to faculty and students.



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Rayat Shikshan Sanstha's



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


**Department of Chemistry**

**Report on**

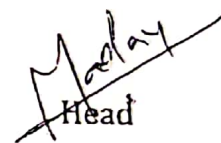
**RUSA Sponsored**

**" One day Workshop on SET/NET Guidance."**

The department of chemistry, Yashwantrao Chavan Institute of Science, Satara had arranged a " One day Workshop on SET/NET Guidance" for post-graduate students of M.Sc-I and II. on 7<sup>th</sup> Dec. 2019. The workshop is inaugurated by Chief Guest Dr.B.B. Shingate Department of Chemistry, B.A.M.U, Aurangabad. In First session, Dr.B.B.Shingate started the lecture on preparation methodology of SET/NET. He discussed stereochemistry, reaction mechanism questions. Dr. P.V. Chavan discussed the various questions of organic spectroscopy. He also asked variety questions of said subject. The third lecture was started by Mr. P.M. Gaikwad. He started with inorganic chemistry syllabus of SET/NET. He delivered lecture on Co-ordination Chemistry. Dr.B.S. Shinde delivered lecture on thermodynamics. He discussed various problem on thermodynamics. All staff and post graduate students have participated enthusiastically. All the lectures were very useful for students. Finally, Dr.B.S. shinde has given vote of thanks

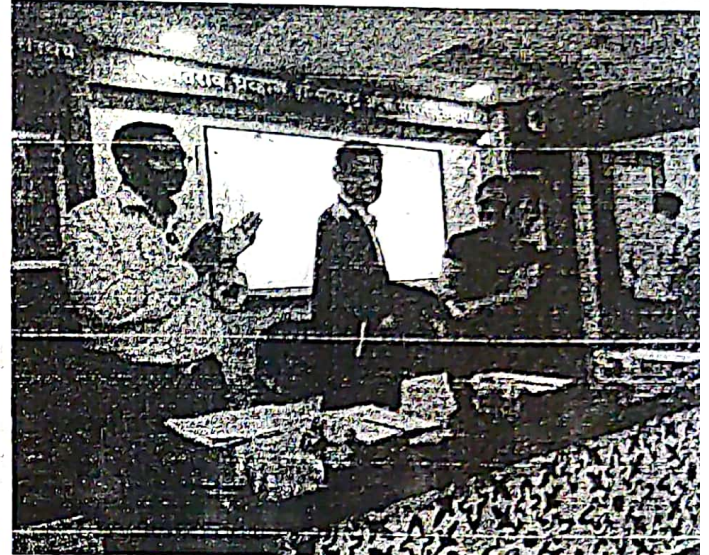
  
Co-ordinator

M.Sc

  
Head

Department Of Chemistry





**Rayat Shikshan Sansthas**  
**Yashavantrao Chavan Institute of Science, Satara**  
**Department of Chemistry**

**Concept Test In Chemistry (CONTECH-19/20)**

**Report**

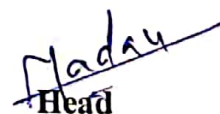
Association of Chemistry Teachers (ACT), C/o Homi Bhabha Centre for Science Education, Mumbai has been conducting a Concept Test in Chemistry (CONTECH) for undergraduate students throughout the nation to assess the conceptual understanding in chemistry since 2010. CONTECH is a competitive test at national level for UG students in chemistry (based on syllabus of 3 Year B.Sc. programme of an Indian University) Such a test is not only useful in testing conceptual understanding of students in chemistry but also will be helpful in generating students' interest in chemistry. Hence it is a need of hour to promote the test and encourage the chemistry students to take part in such a test.

This year 24 students were registered for the test. Concept Test was held on 31<sup>st</sup> January, 2020, during 011.00am to 01.00pm. Analysis of the Result is as follows:

Candidates Registered		Result		Rankers
Male	Female	30 to 50 %	Above 20%	1.Ms.Bhosale Puja Sanjay (55%) 2.Mr.Ghadage Rushikesh Rajaram (50%) 3.Ms. Shinde Samrudhi Sunil( 47.5 %) 4. Ms. Pawar Nikita Narayan (42.5%)
24	22	23	01	



College Coordinator  
CONTECH -19/20



Head  
Department of Chemistry