

Shri Shahu Shikshan Prasarak Seva Mandal's

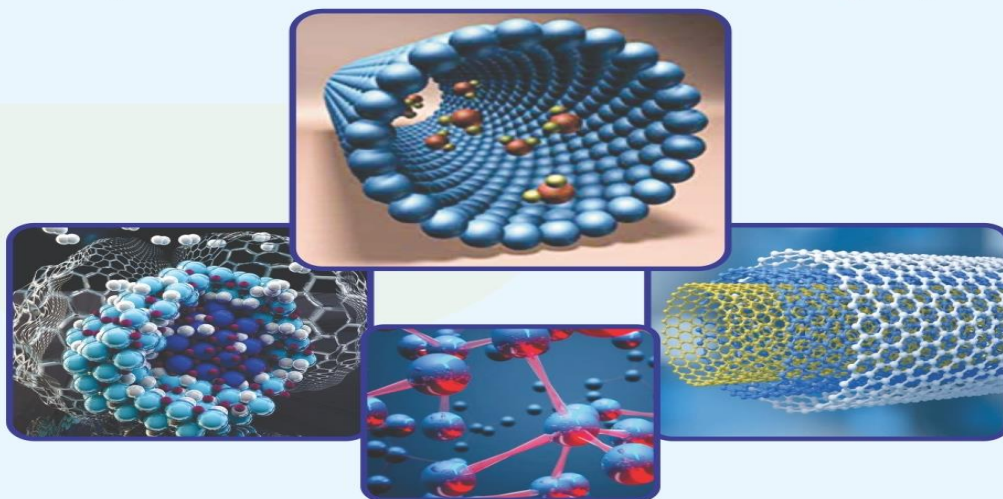
## **Shri Vijaysinha Yadav College**

Peth Vadgaon, Dist. Kolhapur(MS) India

(Website: <http://www.vympv.ac.in>)

**Re-Accredited with Grade: B++ (CGPA: 2.83) by NAAC**

(Affiliated to Shivaji University, Kolhapur)



### **Department of Chemistry**

organizes

### **Two day National Seminar on 'Recent Scenario in Chemical Sciences and Material Sciences' (RSCSMS-2023)**

On 3<sup>rd</sup> & 4<sup>th</sup> March, 2023

Sponsored by

**Shivaji University, Kolhapur**



**A report on**  
**Two-day National Seminar on**  
**‘Recent Scenario in Chemical Sciences and Material Sciences’ (RSCSMS-2023)**  
On 3 & 4 March, 2023  
Organized By  
**Department of Chemistry**  
**Shri Vijaysinha Yadav College, Peth Vadgaon, Dist. Kolhapur**

The Department of Chemistry of Shri Vijaysinha Yadav College, Peth Vadgaon, Dist. Kolhapur has organized two-day **Two-day National Seminar on ‘Recent Scenario in Chemical Sciences and Material Sciences’ (RSCSMS-2023)** during 3 & 4 March, 2023

This seminar was funded by Shivaji University, Kolhapur.

**Rational Behind the Seminar**

The seminar is organized to sensitize and stimulate the young minds to bring out the best among the various frontiers of chemical sciences by providing a common platform to researchers working in the various sub-disciplines of the theme. So this seminar have been generated awareness amongst the budding researchers particularly in the local region to current scenario in chemical sciences. The challenges can only be addressed if we proved an excellent, diverse and well mentioned science base, a good supply of well-trained individuals and an innovative climate from which good ideas can flourish, be exploited and be communicated around the world. The seminar title highlighted the priority areas and the key opportunities for the Chemical Sciences including energy, food, human health, water and air, raw materials and feed stock, lifestyle and recreations and the future-cities. Seminar focused on the challenges for chemical sciences, sustainable increase in agriculture productivity, developing alternative material to conserve precious resources, conservation of biomass feedstock, developing existing technologies in solar energy, safe and efficient harnessing of nuclear energy improving performance in energy conservation and storage technologies such as batteries, enhancing basis sciences to transform drug discovery in the development of health care efficiently and effectively, considering the pandemic situation that we are facing from past three years by enabling earlier diagnosis and developing improved methods to monitor disease.

This national seminar provided a unique opportunity for exchange of ideas between vast array of scientists, researchers and development agencies to build resources and environment sustainability and economics profitability through greater synergy among the stakeholders for sustainable development.

- The participants have shared and exchanged their views and knowledge on innovative techniques and theories to provide research strategies and solutions for emerging challenges in Chemistry and Material Science.
- The participants have got the technical knowledge to sustain these practices in odd situations
- The entrepreneurial skills and self-employment among youth have been enhanced

**Registrations** - The seminar has received a huge response from the delegates, industrials, Research Scholars and UG/PG students. Total 80 participants registered for the seminar. The registrations were as per following categories.

Faculty - 21

Research Scholars - 25

UG/PG Students - 34

**Inauguration** – The seminar was inaugurated by Hon. Prof. (Dr.) A. D. Sawant, Former Vice-Chancellor, Rajasthan University in august presence of Prof. (Dr.) B. M. Patil, Assistant Professor, Institute of Science, Mumbai. The function was presided by Hon. Gulabrao Pol, President, Shri Shahu Shikshan Prasarak Seva Mandal, Peth Vadgaon.

**Plenary & technical sessions** - Total 5 plenary sessions and 2 technical sessions were conducted in 2 days. These are,

Sr. No.	Date	Time	Event	Name of Speaker	Topic
01	25-03-2022	10.30am to 12.00pm	Inaugural Function and Keynote Address Session- I	Chief Guest - <b>Prof. (Dr.) A. D. Sawant (Keynote Speaker)</b> Former Vice-Chancellor, Rajasthan University <b>Special Invitee – Prof. (Dr.) B. M. Patil</b> Assistant Professor, Institute of Science <b>President – Mr. Gulabrao Pol (Rtd. IPS)</b> , President, Shri Shahu Shikshan Prasarak Seva Mandal, Peth Vadgaon	<b>New Trends in Research and Research Development</b>
02		12.00pm to 01.00pm	Session II	Dr. Rashinkar Gajanan Shankarao, Professor, Department of Chemistry, Shivaji University, Kolhapur	<b>Supported Ionic Liquid Phase Catalysis</b>

04		02.00pm to 03.00pm	Session III	<b>Dr. Pravin Walake, (Online on Google Meet)</b> Assistant Professor, National Centre for Nanosciences and Nanotechnology, University of Mumbai	<b>Advanced nanomaterials and their engineering for next generation energy storage technologies</b>
05		03.00pm to 05.30pm	Technical Session- I	<b>Oral presentations</b>	<b>Experts - Dr. Chandrakant Mane</b> Shri V. Y. College, Peth Vadgaon <b>Dr. S. S. Bhosale</b> Shri V. Y. College, Peth Vadgaon
06		09.30am to 11.30am	Technical Session- II	<b>Poster presentations</b>	<b>Experts - Dr. Rajeshkumar Hyam</b> Dept. of Physics, Goa University <b>Dr. B. R. Chopade</b> Doodhsakhar Mahavidyalaya, Bidri
07	26-03-2022	11.30am to 12.30pm	Session IV	<b>Dr. Jayvant Gunjkar</b> Assistant Professor, D, Y, Patil Institute of Engineering, Kolhapur	<b>2D Lattice Engineered Nanohybrids for Energy and Environmental Applications</b>
08		12.30pm to 01.30pm	Session V	<b>Dr. Rajeshkumar Shankar Hyam</b> Assistant Professor, School of Physical and Applied Sciences, Goa University, Goa	<b>Electrochemical Synthesis of Nanostructures for Energy Applications</b>
09		03.00pm	Valedictory function	<b>Chief Guest - Dr. Rajeshkumar Shankar Hyam</b> Assistant Professor, School of Physical and Applied Sciences, Goa University, Goa	

**Plenary sessions** – Total 05 plenary talks were delivered by 05 resource persons related to the title and theme of the Seminar. All the lectures delivered by these resource persons were knowledgeable, motivating as well as satisfying the goals of National Seminar. These lectures have ignited the minds of the participants in chemical and material sciences research areas.

**Technical sessions** – Oral and poster presentation sessions were arranged during the Seminar. Total 13 participants presented their research papers in oral presentation session and 26

participants presented their research papers in poster presentation session. The presentations were assessed by the experts. 'Best oral presentation' and 'Best poster presentation' were felicitated with a bouquet and a certificate.

**Abstract Book** – The abstract book of 25 abstracts was published by the auspicious hands of Hon. Prof. (Dr.) A. D. Sawant, Former Vice-Chancellor, Rajasthan University in august presence of Prof. (Dr.) B. M. Patil, Assistant Professor, Institute of Science, Mumbai, Hon. Gulabrao Pol, President, Shri Shahu Shikshan Prasarak Seva Mandal, Peth Vadgaon. Dr. Vijaya R. Chavan, Principal and Convenor, Mrs. Renuka Pawar, Co-ordinator, Dr. Chandrakant B. Mane, Organising Secretary, Dr. Rajaram Atigre, Editor and Dr. Santosh S. Bhosale, Editor were also present on the stage for the publication.

**Conclusion:**

The seminar attained its objectives. The participants expressed satisfaction about the arrangement and outcome of the seminar in their feedback and valedictory session. We express deep gratitude to the Shivaji University, Kolhapur for providing us financial support to organize this seminar. We are also thankful to all the resource persons and participants for making this conference grand success.



  
**Principal**  
Shri. Vijaysinha Yadav College  
Peth Vadgaon, Dist. Kolhapur.

#### Chief Patron

**Hon. Gulabrao Pol (Rtd. IPS)**

President,  
Shri Shahu Shikshan Prasarak Seva Mandal, Peth Vadgaon

#### Patrons

**Hon. Vijayadevi Yadav**

Vice President,  
Shri Shahu Shikshan Prasarak Seva Mandal, Peth Vadgaon

**Hon. Vidyatai Pol**

Secretary,  
Shri Shahu Shikshan Prasarak Seva Mandal, Peth Vadgaon

#### National Advisory Committee

**Hon. Dr. D. T. Shirke**

Vice-Chancellor, Shivaji University, Kolhapur

**Hon. Dr. P. S. Patil**

Pro-Vice-Chancellor, Shivaji University, Kolhapur

**Hon. Dr. V. N. Shinde**

I/c Registrar, Shivaji University, Kolhapur

**Hon. Dr. S. H. Thakar**

I/c Dean, Faculty of Science and Technology,  
Shivaji University, Kolhapur

**Prof. Dr. K. D. Sonawane**

Head, Dept. of Chemistry, Shivaji University, Kolhapur

**Prof. Dr. K. Y. Rajpure**

Head, Dept. of Physics, Shivaji University, Kolhapur

**Prof. Dr. M. K. Lande**

Head, Dept. of Chemistry, Dr. BAMU, Aurangabad

**Prof. Dr. V. M. Bhuse**

Institute of Science, Nagpur

**Dr. Dilip Shivgan**

National Physical Laboratory, New Delhi

**Dr. Rajeshkumar Hyam**

Dept. of Physics, Goa University, Goa

**Dr. Omprakash Yemul**

School of Chemical Sciences, SRTMU, Nanded

**Dr. M. M. Rajmane**

Principal, S. G. M. College, Karad

**Dr. B. V. Tamhankar**

Principal, Willingdon College, Sangali

**Dr. S. T. Salunkhe**

Principal, Dahiwadi College, Dahiwadi

**Dr. B. D. Ajalkar**

Principal, Y. C. College, Halkarni

**Prof. Dr. G. B. Kolekar**

Dept. of Chemistry, Shivaji University, Kolhapur

**Prof. Dr. S. S. Kolekar**

Dept. of Chemistry, Shivaji University, Kolhapur

**Prof. Dr. K. M. Garadkar**

Dept. of Chemistry, Shivaji University, Kolhapur

**Prof. Dr. P. V. Anbhule**

Dept. of Chemistry, Shivaji University, Kolhapur

**Prof. Dr. S. D. Delekar**

Dept. of Chemistry, Shivaji University, Kolhapur

#### Local Organizing Committee

**Prin. Dr. Vijaya R. Chavan**

Convener

**Mrs. Renuka A. Pawar**

Co-ordinator

**Dr. Chandrakant B. Mane**

Organizing Secretary

**Mr. Dattatraya B. Patil**

Treasurer

**Mr. Jagtap D. G., Mr. Patil S. S., Dr. Atigre R. H.,**

**Dr. Pawar S. J., Dr. Maske S. V., Mr. Chavan R. R.,**

**Ms. Khot P. P., Mr. Patil N. S.**

Members

#### Esteemed Speakers

**Dr. Gajanan Rashinkar**

Dept. of Chemistry,  
Shivaji University, Kolhapur.

**Prof. V. B. Patil**

P. A. H. Solapur University, Solapur

**Dr. Pravin Walke**

National centre for Nanosciences and  
Nanotechnology, University of Mumbai

**Dr. B. M. Patil**

Institute of Science, Mumbai

**Dr. Rajeshkumar Hyam**

Goa University, Goa,

To, \_\_\_\_\_ Book-Post  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

#### From

**Principal**

**Shri Vijaysinha Yadav College**

Peth Vadgaon, Dist. Kolhapur, Phone : (0230) 2471599

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

E-mail : [vyadavcollege@rediffmail.com](mailto:vyadavcollege@rediffmail.com)

#### Contact

**Mrs. Renuka Pawar** +91 - 8329197439

**Dr. Chandrakant Mane** +91 - 7020443483

**Shri. Dattatraya Patil** +91 - 9356754578



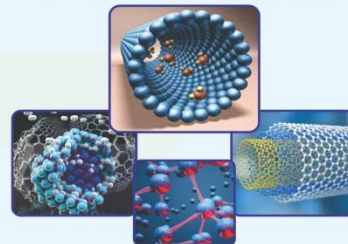
Shri Shahu Shikshan Prasarak Seva Mandal's  
**Shri Vijaysinha Yadav College**

Peth Vadgaon, Dist. Kolhapur(MS) India

(Website: <http://www.vympv.ac.in>)

Re-Accredited with Grade: B++ (CGPA: 2.83) by NAAC

(Affiliated to Shivaji University, Kolhapur)



**Department of Chemistry**

organizes

**Two day National Seminar on**

**'Recent Scenario in Chemical Sciences**

**and Material Sciences'**

**(RSCSMS-2023)**

On 3<sup>rd</sup> & 4<sup>th</sup> March, 2023

Sponsored by

**Shivaji University, Kolhapur**



#### About Parent Institution:

Peth Vadgaon is a well-known market place of Hatkanangale Tahsil for nearby 38 villages. Shri Shahu Shikshan Prasarak Seva Mandal, Peth Vadgaon was established in 1968 by Late Shrimant Vijaysinha Yadav Sahab to impart liberal & efficient education for the students of rural area. The institute is presently running eight different units and Shri Vijaysinha Yadav College is one of them. About 10000 students from rural area are pursuing education in our institution. More than 500 skilled Teaching and non teaching staff is engaged in imparting knowledge to these students.

#### About Shri Vijaysinha Yadav College:

Shri Vijaysinha Yadav College, Peth Vadgaon was established in 1999 aims to provide quality education to the students from Peth Vadgaon and surrounding rural areas under the roof of Shri Shahu Shikshan Prasarak Seva Mandal, Peth Vadgaon. This educational institution has created the academic environment for the economic and socio-cultural development of the neighboring region. It offers various academic programs in Arts, Commerce, and Science along with some skill-related short-term courses. The College strives for excellence in all its activities, which is authenticated by the fact that the college is accredited with Grade: B++ (CGPA: 2.83) by NAAC, Bangalore in September 2016 during its second cycle.

#### About the Seminar:

The aim of seminar is to sensitize and stimulate the young minds to bring out the best among the various frontiers of chemical sciences by providing a common platform to researchers working in the various sub-disciplines of the theme. So this seminar would generate awareness amongst the budding researchers particularly in the local region to current scenario in chemical sciences. The challenges can only be addressed if we provide an excellent, diverse and well mentioned science base, a good supply of well-trained individuals and an innovative climate from which good ideas can flourish, be exploited and be communicated around the world. The seminar title focuses on the challenges for chemical sciences, sustainable increase in agriculture productivity, developing alternative material to conserve precious resources, conservation of biomass feedstock, developing existing technologies in solar energy, safe and efficient harnessing of nuclear energy improving performance in energy conservation and storage technologies such as batteries, enhancing basic sciences to transform drug discovery in the development of health care efficiently and effectively.

#### Focal Theme of Seminar:

✓ Organic Chemistry, Inorganic Chemistry, Physical Chemistry, Analytical Chemistry, Industrial Chemistry, Physics, Nanotechnology

#### Sub Themes of Seminar:

- ✓ Nanoscience and Materials Science
- ✓ Green Chemistry and Green Technology
- ✓ Organic Chemistry and Pharmaceuticals
- ✓ Co-ordination and Organometallic Chemistry
- ✓ Spectroscopic Techniques and Advanced Techniques
- ✓ Computational and Theoretical Chemistry
- ✓ Energy Generation and Storage
- ✓ Contemporary topics in Multidisciplinary Research
- ✓ Any other area related to Chemical and Allied Science

#### Nearby Destinations:

Peth Vadgaon (Monument of Maratha Warrior Dhanaji Jadhav) Kolhapur (Mahalaxmi temple, Shivaji University, New Palace, Rankala Lake), Wadi Ratnagiri (Jotiba temple), Panhala fort, Pavankhind, Vishalgadh, Radhanagari Wildlife Sanctuary (famous for Indian Gaur-Bison), Bahubali-Kumbhoj, Nrusinghwadi (Datta Mandir), Khidrapur (Ancient Kopeswar Mandir)

#### Call for Papers:

Faculty of chemical & material Sciences, Research Scholars, UG/PG students, Scientists, Industrial personnel, etc. are cordially invited to participate and present their research papers in oral or poster mode during the seminar. The medium of the seminar is English only, so the authors are requested to send a soft copy of their full length paper by e-mail ([rscsms2023@vympv.ac.in](mailto:rscsms2023@vympv.ac.in)) on the thrust areas mentioned above. The Abstract and full length should be in MS Word, Font-Times New Roman, Font Size- 12, Line spacing- 1.5 with 1-inch margin on all sides. The abstract should be in approximately 200 words including 4-5 keywords. Mention author names, corresponding address, mobile number, and e-mail in the abstract. One hard copy of the abstract should be submitted at the time of desk registration. The Poster size should be 1x1 meter. **Selected papers will be published in the 'International Journal of Advanced Research in Science, Communication, and Technology (IJARSCT) with an impact factor of 7.301 (SJIF). IJARSCT is**

referred, PEER reviewed, indexed (Google Scholar, Research Gate, Scribd, Crossref, CiteFactor, ESJ, Index Copernicus) journal with individual DOI. Authors have to pay extra Rs. 500/- per paper as publication charges at the time of registration on 3<sup>rd</sup> March, 2023.

#### Registration Fees:

UG/PG students	Rs. 300/-
Research Scholars	Rs. 400/-
Faculty delegates, Scientists & Industrial personnels	Rs. 600/-

(Registration Fee includes Conference Kit, Abstract e-Book, breakfast, Lunch and Tea)  
Spot Registration will be made available.  
(If Accommodation is required, it will be at the participant's cost.)

#### Contacts for Accommodation:

**Dr. S. J. Pawar** 7020305351

**Dr. R. H. Atigre** 9822492077

#### Important Dates:

**Last Date of Registration**

**& Abstract Submission** : 25<sup>th</sup> Feb, 2023

**Acceptance Notification**: 2<sup>nd</sup> March, 2023

#### Mode of Payment:

Registration Fee can be paid through NEFT, Google Pay, Phone pay, etc on the following account.

**Bank name** - Axis Bank Ltd, Vadgaon Kasba

**Ac. Name** - Shri Vijaysinha Yadav College, Peth Vadgaon

**Ac. Number** - 922010007895580

**IFSC code** - UTIB0003805

**MICR code** - 416211007

A scanned copy/screenshot of the amount paid and abstract should be uploaded in the registration form

Registration Link

Q. R. Code



Whatsapp Link

Q. R. Code



**Two Day National Seminar on Recent Scenario in chemical Sciences  
and Material Sciences (RSCSMS 2023)**

on 03 and 04 March 2023 Organized by

**Dept. of Chemistry, Shri Vijaysinha Yadav College, Peth Vadgaon,  
Dist. Kolhapur**

Sponsored By

**Shivaji University, Kolhapur**

**List of Oral and Poster presentations**

<b>Sr. No.</b>	<b>Name of presenter</b>	<b>Title of the Paper</b>	<b>Oral/Poster</b>
1.	B. S. Satwekar	Synthesis and Characterization of NiO-ZnO Nanocomposites	Oral
2.	Ashwini Patil	Copper (I) Schiff base complex for C-C and C-N coupling reactions	Poster
3.	Dr. Vishal J. Suryavanshi	Reliable analytical extraction method of ruthenium(III) from weak acid media: analysis of real sample	Oral
4.	Pawde Shubhangi Subhashrao	Lithium-Transitioning away from fossil fuels	Poster
5.	D. J. Patil	Enhanced Electrochemical Performance of Reduced Graphene Oxide-Nickel Tungstate Thin Films Synthesized via Successive Ionic Layer Adsorption and Reaction (SILAR) Method for Asymmetric Solid-State Supercapacitor	Poster
6.	Rohini P. Patil	Biosynthesis of Ni-Fe <sub>2</sub> O <sub>4</sub> Magnetic Nanocatalyst with Enriched Photodegradation Activity	Oral
7.	K. A. Patil	Seasonal variation in Physico- chemical properties of saline soils of Western Maharashtra.	Oral
8.	H. M. Shinde	Environmentally sustainable synthesis of CeO <sub>2</sub>	Poster

		nanoparticle for efficient photodegradation of dye	
9.	S. S. Bhosale	The Role of Chemistry in Plant Taxonomy- A Review	Oral
10.	S. B. Bhairunagi	Chemically Synthesized CdS nanostructures for Supercapacitor performances	Poster
11.	Avdhut Sutar	Manganese Dioxide (MnO <sub>2</sub> ) Thin Films for Super capacitor Application	Poster
12.	Mrs. S. G. Patil	Careers in Industrial Chemistry that Provides Earn Well-paying Jobs-A Thought	Oral
13.	Renuka Pawar	Physico-Chemical Analysis Of Water In Warana River From Kolhapur District	Poster
14.	Harshada B. Garud	Amino functionalized mesoporous silica as nanoadsorbents for removal of toxic Cr (VI) ions from water	Oral
15.	Shubhangi Todkar	Modern Approach to Treatment of Waste Water:- Photocatalysis	Poster
16.	S. D. Khot	Chemical synthesis of dysprosium sulphide thin films for supercapacitor application	Poster
17.	A. B. Patil	The Study of Physicochemical Properties of Soil in Western Region of Maharashtra in Shirala Tahasil.	Oral
18.	A. D. Patil	Analysis and Effect of Physicochemical Properties of Soil in Western Region of Maharashtra in Shirala Tahasil.	Poster
19.	A. H. Deshmukh	Development of Carbon-Rich Alkynyl Functionalized Ni(II) Complexes	Poster
20.	V. V. Aherkar	Assessment of Antimicrobial activity of chemical bath deposited ZnS thin film	Poster
21.	Jayshree Patil,	Cobalt Oxide (Co <sub>3</sub> O <sub>4</sub> ) Thin Films for Supercapacitor Application	Poster



22.	R. S. Yalgudre	Kinetics and Mechanism of Oxidation of Benzoic and 4- hydroxy benzoic acid hydrazides by Bromate in Aqueous Hydrochloric Acid Medium: A Kinetic Study	Oral
23.	N. K. Chavan	Study of annealing effect on electrochemically deposited nanocrystalline CuInSe <sub>2</sub> thin films on steel and FTO Substrates	Poster
24.	Neha Patil	Antimicrobial Activity of Copper Sulphide Nanoparticles	Poster
25.	Rutuja Chavan	NiO.Mxene as an electrodes for supercapacitor Application	Oral
26.	Renuka A. Pawar	Antimicrobial Activity of Copper Sulphide Nanoparticles	Poster
27.	Rajaram H. Atigre	Physico-Chemical Analysis Of Water In Warana River From Kolhapur District	Poster
28.	Muskan Pinjari	Physico-Chemical Analysis Of Water In Warana River From Kolhapur District	Poster
29.	Akida	Physico-Chemical Analysis Of Water In Warana River From Kolhapur District	Poster
30.	Pranjali Khot	Antimicrobial Activity of Copper Sulphide Nanoparticles	Poster
31.	Manasi Bhopale	Antimicrobial Activity of Copper Sulphide Nanoparticles	Poster
32.	Damyanti Kamble	Antimicrobial Activity of Copper Sulphide Nanoparticles	Poster
33.	Rekha Ovhal	Chemically Synthesized CdS nanostructures for Supercapacitor performances	Poster
34.	Chandrakant Mane	Environmentally sustainable synthesis of CeO <sub>2</sub> nanoparticle for efficient photodegradation of dye	Poster

35.	Nishakumari Koli	Antimicrobial Activity of Copper Sulphide Nanoparticles	Poster
36.	S. M. Patil	The study of Physico-chemical Properties of Soil	Oral
37	Sachin Pawar	Cobalt Oxide (Co <sub>3</sub> O <sub>4</sub> ) Thin Films for Supercapacitor Application	Poster
38.	Varad Khandu	Cobalt Oxide (Co <sub>3</sub> O <sub>4</sub> ) Thin Films for Supercapacitor Application	Oral
39.	Khobare Raju	Cobalt Oxide (Co <sub>3</sub> O <sub>4</sub> ) Thin Films for Supercapacitor Application	Oral

**Total oral presentations – 13**

**Total poster presentations – 26**

**Two-day National Seminar on  
'Recent Scenario in Chemical Sciences and Material Sciences' (RSCSMS-2023)  
On 3 & 4 March, 2023  
Photo**



**Inauguration of Seminar**



**Keynote Address- Prof. A. D. Sawant**



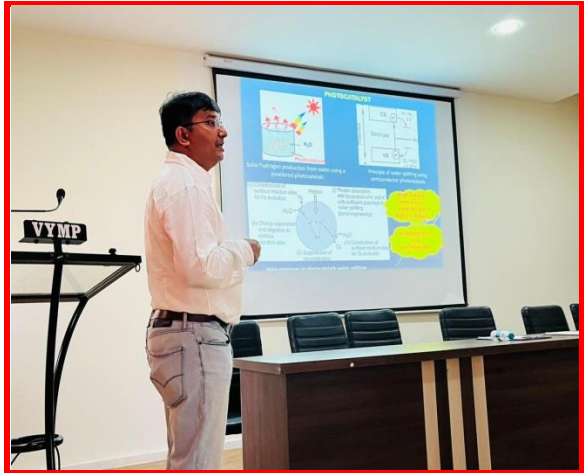
**President Remark- Hon. Gulabrao Pol**



**Resource Person- Prof. Gajanan Rashinkar**



**Resource Person- Dr. Pravin Walake**



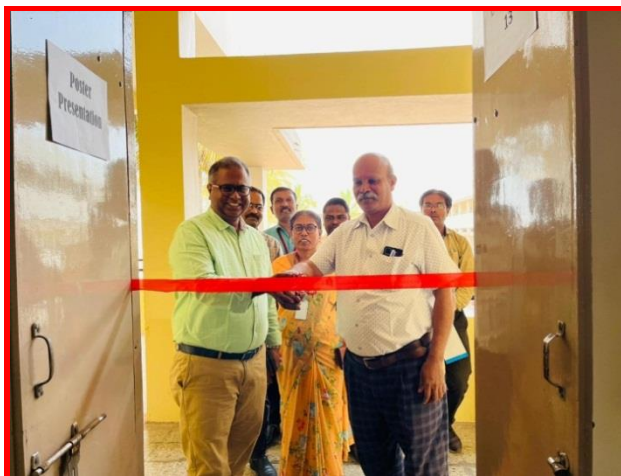
**Resource Person- Dr. Jayvant Gunjkar**



**Resource Person- Dr. Rajeshkumar Hyam**



**Abstract Publication**



**Inauguration- Poster Presentation**



**Poster Presentation**



**Participants**



**Oral Presentation**



**Certificate Distribution**



**Certificate Distribution**

