

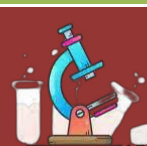


Anekant Education Society's  
**JAYSINGPUR COLLEGE JAYSINGPUR**  
Reaccredited with 'A' grade by NAAC (CGPA 3.24)  
DBT STAR Supported College  
Dist. Kolhapur, PIN-416101 Maharashtra  
**DIAMOND JUBILEE CELEBRATIONS**  
2023-24

# Unleashing Curiosity: Metric Students Science Awareness Workshop



Organized By  
**DBT-STAR College Scheme**



2023

## Coordinator

Dr. S. R. Sabale

## Principal

Dr. S. A. Manjare

## Convenors

Dr. P. P. Chikode

Dr. S. D. Umdale

Dr. R. S. Dhabbe

Dr. J. B. Patade

Dr. S. R. Patil

21<sup>st</sup> December 2023  
to  
23<sup>rd</sup> December 2023

## **Unleashing Curiosity: Science Workshop**

Faculty of Science under the DBT-Star College Scheme, organized three days Workshop for metric students from various high schools of Shirol tehsil of Kolhapur District from 21<sup>st</sup> December 2023 to 23<sup>rd</sup> December 2023. This workshop has been an exhilarating journey, marked by countless moments of wonder, discovery, and shared excitement. Our workshop aimed not just to impart scientific knowledge, but to bring science to life, demystify its complexities, and foster a deep-seated passion for inquiry and discovery within each participant.

The heart of our workshop is a realm where hypotheses were formulated, experiments were conducted, and the thrill of scientific exploration permeated every discussion. We embarked on a mission to unravel the mysteries of physics, biology, and chemistry, engaging in hands-on activities, lively debates, and collaborative problem-solving to deepen our understanding of the scientific method.

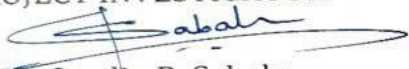
This report serves as a testament to the unwavering enthusiasm and intellectual curiosity displayed by each and every participant. It encapsulates the spirit of scientific adventure that permeated our time together and encapsulates the unparalleled joy that comes with uncovering the enigmatic secrets of the natural world.

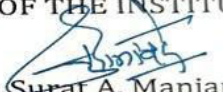
Our aim in presenting this report is not only to document our scientific feats, but to inspire future generations of budding scientists, nurturing a sense of wonder and igniting the flames of curiosity within their hearts.

College have invited high school students to participate in the workshop in the college premises especially to the Science departments. Total, 221 students from 08 high schools have been participated in this workshop. Students were acquainted with various hands on experiments, expert lectures, visits to gardens, biodiversity center and various activities have been undertaken. The inauguration of this workshop was done by Prin. Dr. S. A. Manjare.





PROJECT INVESTIGATOR  
  
Dr. Sandip R. Sabale  
**Coordinator**  
DBT-STAR College Scheme  
Jaysingpur College, Jaysingpur

HEAD OF THE INSTITUTION  
  
Dr. Surat A. Manjare  
**PRINCIPAL**  
Jaysingpur College, Jaysingpur

**REPORT ON**  
**Avishkar Convention- 2023-24**  
**Organised by Shivaji University Kolhapur**



**SHIVAJI**  
**UNIVERSITY**  
**KOLHAUR**

**JAYSINGPUR**  
**COLLEGE**  
**JAYSINGPUR**

**11.12.2023**

Name of Activity: Avishkar Convention, Shivaji University Kolhapur

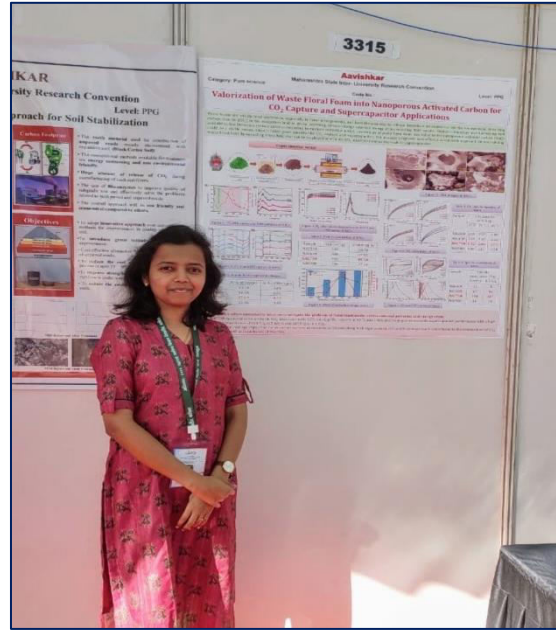
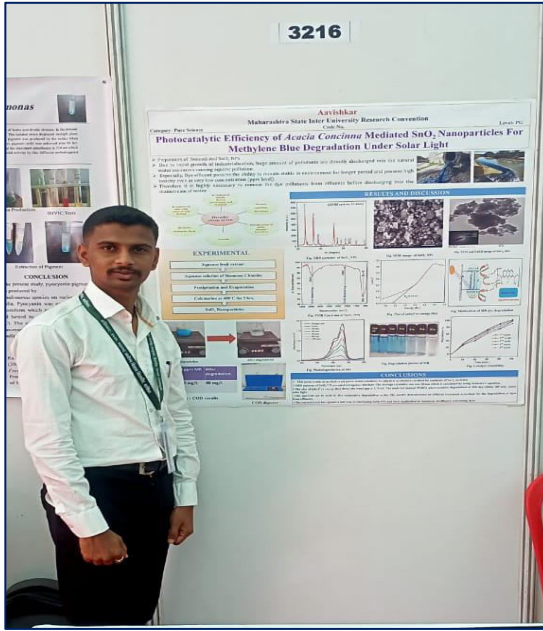
Year:	2023-24
Name of the Activity:	Avishkar Convention
Date:	11.12.2023
Organised by	Shivaji University Kolhapur
Venue:	Vivekanand College, Kolhapur, Shivaji University Kolhapur
Co-ordinator:	Dr. S. R. Sabale
Team coordinator	Dr. S. R. Patil and Dr. K. D. Khaladkar
Organised for:	Students
No. of Participants students	District Level: 11 University Level: 04 State Level: 02
Teachers	02
Nature:	Research work presentation
Supported By	DBT Star College Scheme

Waghmode Kishore; Chavan Abhijeet; Patil Avanti; Ganje Nilesh; Koli Neha; Dapale Sushma; Savalvade Nisha; Burud Mahesh; Pattanshetti Akshata; Khandagale Pradhnya; Herwade Ranjeet; Gawade Madhuri; Terdale Shraddha; Mahesh Burud; Akshata Pattanshetti; Pradnya Khandagale and Ranjit Herwade were participated alsong with Dr. S.R. Patil and Dr. K.D. Khaladkar as a team leader. All students were guided by the respective staff members, DBT satr College Scheme coordinators, R&D Cell, Vice-Principal Prof. M.V. Kale and Principal Dr. S. A. Majare. The expenses of the student work were supported under DBT-Star College Scheme.

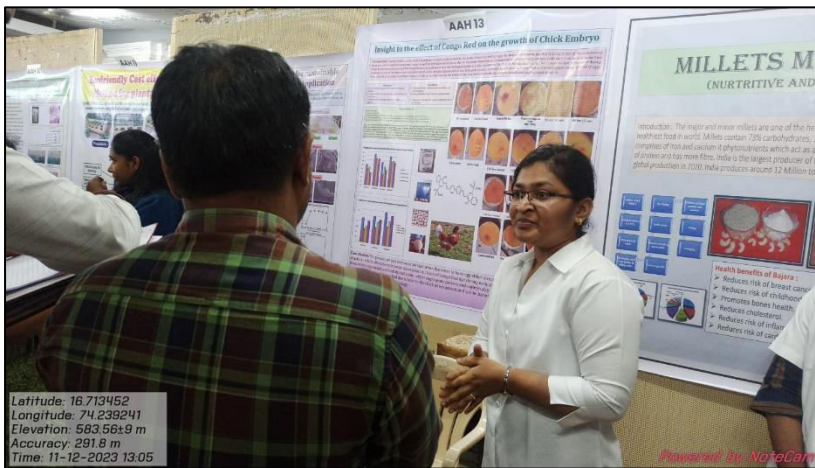
Aavishkar is yearly research competition initiated by the Hon'ble Governor of Maharashtra and the Chancellor of the Universities in the State of Maharashtra that aims to foster a culture of research among students and motivate them to translate their ideas into physical reality. The competition is held at three stages: the first is the district level, followed by the University level, and finally the State level. For the academic year 2023-24, 11 students from Jaysingpur College, Jaysingpur competed in the district-level Aavishkar competition on 11.12.2023 at Vivekandand college Kolhapur, with one student placing third. Five students from our college competed in the University level Aavishkar competition, and three of them finished in the top three ranks. The 2 shortlisted students at University level were further promoted to State level Aavishkar competition organised by Maharashtra University of Health Science which was scheduled on 13 to 15<sup>th</sup> January 2024.



Presentation by students at University level Aavishkar competition



Presentation by students at State level Aavishkar competition held at Maharashtra University of Health Science, Nashik.



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 Time: 11-12-2023 10:05

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Latitude: 16.714239  
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**3<sup>rd</sup> Prize:  
 Miss Pradnya  
 Khandagale**

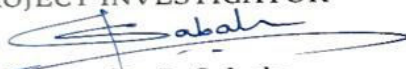


**3<sup>rd</sup> Prize: Mr.  
 Ranjit  
 Herwade**

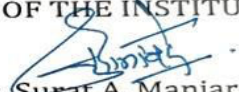


**3<sup>rd</sup> Prize:**  
**Miss**  
**Shradha**  
**Terdale**

PROJECT INVESTIGATOR

  
Dr. Sandip R. Sabale  
**Coordinator**  
DBT-STAR College Scheme  
Jaysingpur College, Jaysingpur

HEAD OF THE INSTITUTION

  
Dr. Surat A. Manjare  
**PRINCIPAL**  
Jaysingpur College, Jaysingpur

# REPORT OF WORKSHOP ON UV-VISIBLE, FTIR AND FLAME PHOTOMETRY



Gas Chromatograph Trace  
1110, Thermofisher



FTIR Spectrometer 4600,  
Jasco, Japan



Spectrofluorometer FP8200,  
Jasco, Japan



Refractometer, Atago, Japan

**JAYSINGPUR  
COLLEGE,  
JAYSINGPUR**

**ORGANIZED BY**

**FACULTY OF  
SCIENCE AND  
DBT STAR  
COLLEGE  
SCHEME**

**Friday 16.02.2024**



Anekant Education Society's

**Jaysingpur College, Jaysingpur**

DIAMOND JUBILEE YEAR-2023-24



One day workshop on  
**"UV-Visible, FTIR and Flame photometry"**  
Under  
**DBT-Star College Scheme**

Organised by  
**Department of Chemistry and Science Association**

Friday, 16<sup>th</sup> February 2024 @ 11:30 am onwards

**Training Resource Persons**

**Dr. S. J. Mane-Gavade: UV-Visible Spectroscopy**

**Dr. V. V. Jadhav: Flame Photometry**

**Mr. M. B. Burud: FTIR Spectroscopy**



**Organizing Committee**

**Dr. R. S. Dhabbe**  
Dept. Coordinator

**Prof. Dr. B. M. Sargar**  
HOD, Dept. of Chemistry

**Mr. R. D. Tasgaonkar**  
Convener Science  
Association

**Dr. S. R. Sabale**  
Coordinator  
DBT Star College

**Prof. Dr. M.V. Kale**  
Vice-Principal

**Dr. S. A. Manjare**  
Principal

**Mr. K. R. Kumbhar**

**Dr. G. H. Nikam**

**Dr. A. A. Koli**

**Miss. H. A. Chougule**

**Dr. P. P. Chikode**

**Dr. S. R. Patil**

**Dr. S. D. Umdale**

**Dr. J. B. Patade**

**Name of the Activity: Workshop on UV visible, FTIR and flame photometry**

Year:	2023-24
Name of the Activity:	Workshop on UV visible, FTIR and flame photometry
Date:	16/02/2024
Venue:	Jaysingpur College, Jaysingpur
DBT Star College, Co-ordinator:	Dr. S. R. Sabale
Organised for:	Science Students
No. of Participants	Male: 11
	Female: 12
Teachers	-
Nature:	Academic

Faculty of science, and DST-FIST Analytical Instrumentation Laboratory has organized workshop on UV visible, FTIR and flame photometry on Friday 16.02.2024 under DBT Star College Scheme. Dr. S. R. Sabale, Coordinator DBT Star College Scheme welcomed all participated 3<sup>rd</sup> year science students. Dr. S. J. Mane-Gavade introduced the theme and importance of this workshop. The main purpose of this workshop was to make the students aware regarding the sophisticated instruments including UV-Visible spectrophotometer, FTIR, flame photometer housed in DST-FIST laboratory. The workshop includes Hands on Training sessions on the sophisticated instruments.

All the students were divided into two groups for receiving effective hands-on training on instruments. Dr. S. J. Mane-Gavade explained the principle of the UV-visible spectrophotometer and demonstration of sample preparation and applications of UV-visible spectrophotometer. Dr. V. V. Jadhav explained the principle of flame photometer, how to prepare standard ppm solutions for flame photometer and then the students were given hands on training of Flame photometer. Mr. M. D. Burud explained how to prepare KBr pellet and how FTIR spectra changed with respective functional groups and later students were given hands on training of FTIR.

Going by experiences and feedback received from the students, it is very much clear that such exposure to several characterizations is very much helpful for them to improve their knowledge and pursue their project with higher quality. Finally the training was ended with full of happiness.



Mr. M. D. Burud welcomed students



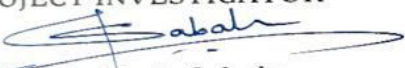
Dr. S. J. Mane-Gavade interacting with the students during UV-Vis spectrophotometer hands-on training session




Mr. M. D. Burud interacting with the students during FTIR hands-on training session



Dr. V. V. Jadhav interacting with the students during flame photometer hands-on training session

PROJECT INVESTIGATOR  
  
Dr. Sandip R. Sabale  
**Coordinator**  
DBT-STAR College Scheme  
Jaysingpur College, Jaysingpur

HEAD OF THE INSTITUTION  
  
Dr. Surat A. Manjare  
**PRINCIPAL**  
Jaysingpur College, Jaysingpur





Anekant Education Society's

# JAYSINGPUR COLLEGE JAYSINGPUR

Reaccredited with 'A' grade by NAAC (CGPA 3.24)  
DBT STAR Supported College

Dist. Kolhapur, PIN-416101 Maharashtra



## DIAMOND JUBILEE CELEBRATIONS 2023-24

### 2<sup>nd</sup> One Day National Conference on SCIENCE AND TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT

Sponsored by : Shivaji University, Kolhapur

16<sup>th</sup> December, 2023



ORGANIZED BY

Faculty of Science & Internal Quality Assurance Cell

On the occasion of  
Diamond Jubilee of Jaysingpur College, Jaysingpur

| VENUE |

Conference Hall, Jaysingpur College Jaysingpur



Anekant Education Society's

# Jaysingpur College, Jaysingpur

## Activity Report

Organised By: Department of Chemistry, and IQAC, Jaysingpur College,  
Jaysingpur;

Year:	2023-24
Name of the Activity:	2 <sup>nd</sup> One Day National Conference on Science and Technology for Sustainable Development”
Date:	16 <sup>th</sup> Dec 2023
Venue:	Department of Chemistry and Conference Hall, Jaysingpur College, Jaysingpur
Co-ordinator:	Dr. G. H.Nikam
Organised for: College/class/ staff	Students, teachers and staff
No. of Participants	More than 250
Nature: (e.g. Academic, cultural, sports etc)	Academic; Student Centric
Objectives of the Activity	To create interest in Science and Technology for Sustainable Development.
Chief Guest/s or Resource Person/s	Prof. M.M. Salunkhe, Dr. Prasad Lokhande, Dr. R. V. Gurav
Short Report (in English)	On December 16, 2023, Anekant Education Society's Jaysingpur College successfully organized the 2nd One Day National Conference on Science and Technology for Sustainable Development. Prof. M.M. Salunkhe, Dr. Prasad Lokhande, Dr. R. V. Gurav lectures are arranged and successfully completed


 Anekant Education Society's  
**JAYSINGPUR COLLEGE JAYSINGPUR**  
 Reaccredited with 'A' grade by NAAC (CGPA 3.24)  
 DBT STAR Supported College  
 Dist. Kolhapur, PIN-416101 Maharashtra

**DIAMOND JUBILEE CELEBRATIONS**  
 2023-24

2<sup>nd</sup> One Day National Conference on  
**SCIENCE AND TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT**  
 Sponsored by : Shivaji University, Kolhapur  
 16<sup>th</sup> December, 2023



**ORGANIZED BY**  
 Faculty of Science & Internal Quality Assurance Cell  
 On the occasion of  
 Diamond Jubilee of Jaysingpur College, Jaysingpur  
 | VENUE |  
 Conference Hall, Jaysingpur College Jaysingpur

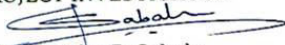


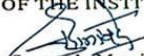
On December 16, 2023, Anekant Education Society's Jaysingpur College successfully organized the 2<sup>nd</sup> One Day National Conference on Science and Technology for Sustainable Development. The conference, which honored Jaysingpur College's Diamond Jubilee, was re-accredited with a 'A' grade by NAAC (CGPA 3.24) and supported by the DBT STAR College scheme.

The morning commenced with registration and breakfast, followed by the inauguration was attended by renowned speakers, guests, and the college principal. Prof. M.M. Salunkhe, former Vice Chancellor of Shivaji University in Kolhapur, presented a keynote talk titled "Smart materials for sustainable development, Energy Environmental application." Dr. Prasad Lokhande, a Post-Doctoral Fellow from UTEM in Santiago, Chile, delivered a riveting lecture on "Nanomaterials-based energy storage devices" during Session 1. The Lunch and Poster Presentation featured several perspectives on sustainable development was also successfully organised and completed during this session.

In the afternoon session, Dr. R. V. Gurav of Shivaji University in Kolhapur gave an intriguing talk on an unknown life science issue. The day concluded with the Valedictory Function at 4:15 p.m., which brought together a plethora of knowledge and encouraged collaboration in the quest of long-term technological improvements. The conference provided an opportunity for meaningful debates and information exchange, in line with the college's dedication to academic achievement.

  
Departmental Coordinator  
Department of Chemistry

PROJECT INVESTIGATOR  
  
Dr. Sandip R. Sabale  
Coordinator  
DBT-STAR College Scheme  
Jaysingpur College, Jaysingpur

HEAD OF THE INSTITUTION  
  
Dr. Surat A. Manjare  
PRINCIPAL  
Jaysingpur College, Jaysingpur

**REPORT ON  
RESEARCH OPPORTUNITIES IN KOREAN UNIVERSITIES**



**JAYSINGPUR  
COLLEGE,  
JAYSINGPUR**

**ORGANIZED UNDER  
DBT-STAR  
COLLEGE  
SCHEME**

**TUESDAY: 20.02.2024**



Anekant Education Society's

**Jaysingpur College, Jaysingpur**

DIAMOND JUBILEE YEAR-2023-24



One day Seminar on  
**"RESEARCH OPPORTUNITIES IN  
SOUTH KOREAN UNIVERSITIES"**

Under  
**DBT-Star College Scheme**

Tuesday, 20<sup>th</sup> February 2024 @ 11:30 am Venue: Conference Hall

**RESOURCE PERSON**



**Vijay Chavan**

Department of Electrical Engineering and Convergence  
Engineering for Intelligent Drone, Sejong University, Seoul,  
South Korea

Organizing Committee

**Dr. S. R. Sabale**  
Coordinator  
DBT Star College

**Prof. Dr. M.V. Kale**  
Vice-Principal

**Dr. S. A. Manjare**  
Principal

**Prof. Dr. B. M. Sargar**

**Dr. R. D. Mane**

**Dr. P. P. Chikode**

**Dr. S. R. Patil**

**Dr. S. D. Umdale**

**Dr. J. B. Patade**

**Dr. R. S. Dhabbe**

**Name of the Activity: SEMINAR ON RESEARCH OPPORTUNITIES IN  
KOREAN UNIVERSITIES**

Year:	2023-24
Name of the Activity:	Seminar on Research opportunities in Korean Universities
Date:	20.02.2024
Venue:	Jaysingpur College, Jaysingpur
Co-ordinator DBT Star College:	Dr. S. R. Sabale
Organised for:	Science Students
No. of Participants	Male : 26
	Female : 35
Teachers	11
Nature:	Academic
Chief Guest/s or Resource Person/s	Mr. Vijay Chavan, Department of Electrical Engineering and convergence for Intelligent Drone, Sejong University, Seoul, South Korea.

The purpose of research is to inform action. Research must always be of high quality in order to produce knowledge that is applicable to the society for its betterment. It is very important to explore the knowledge amongst students to perform research. Taking this into the consideration, P. G. Department of Chemistry, Jaysingpur College, Jaysingpur has organized a seminar on Research Opportunities in Korean Universities for science students on 20<sup>th</sup> February 2024. Dr. S. R. Sabale, M. Sc. Coordinator, has introduced and welcomed Mr. Vijay Chavan, Sejong University, Seoul, South Korea, Nano-device laboratory. Almost 61 students and 11 teachers of our college participated in the workshop.

He informed students about research opportunities available in Korean Universities across various field of studies. He also discussed the application

processed, funding option and eligibility criteria for pursuing research position in Korean Universities. He gave detail information about journey from India to Korea, research lab and environment in Korea, fellowship in Korea for M.S. and Ph.D.; University scholarship and scholarship from Korean Government (**Global Korea and Brain Korea**) scholarship. Also, he discussed how to approach these scholarships and find the research guide in Korean Universities. During the session number of queries of the students about research fellowship has been resolved. This lecture received good response from students. Mr. M. D. Burud proposed vote of thanks.



Dr. S. R. Sabale introduced Mr. Vijay Chavan

Prof(Dr) B. M. Sargar, welcomed Mr. Vijay Chavan





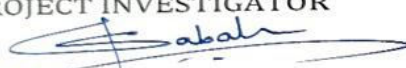


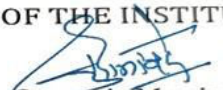
Mr. Vijay Chavan delivering lecture

Student interaction session



Vote of Thanks by Mr. Mahesh Burud

PROJECT INVESTIGATOR  
  
 Dr. Sandip R. Sabale  
 Coordinator  
 DBT-STAR College Scheme  
 Jaysingpur College, Jaysingpur

HEAD OF THE INSTITUTION  
  
 Dr. Surat A. Manjare  
 PRINCIPAL  
 Jaysingpur College, Jaysingpur

2024

## DBT-STAR College Scheme



### Report on Celebration of National Science Day

28/02/2024



Anekant Education Society's

# Jaysingpur College Jaysingpur

## Department of Chemistry

Name of Activity: National Science Day celebration

Year:	2023-24
Name of the Activity:	National Science Day celebration
Date:	28.02.2024
Chief Guest/s or Resource Person/s	1.Prof. Jyoti Jadhav Head, Department of Biotechnology, Shivaji University Kolhapur
Science Association Co-ordinator:	Mr. R. D. Tasganokar.
Departmental Co-ordinator	Dr. R. S. Dhabbe
Head	Prof. Dr. B. M. Sargar
Organised for: College/class/ staff	B.Sc. III students
No. of Participants	M: 45 F: 55 staff: 12 Toatl-112
Nature:	Academic
Objectives of the Activity	Spread Awareness about National Science Day
Report	On the occasion of National Science Day on Wednesday 28/2/2024 Prof. Lecture by Jyoti Jadhav, Head of Department of Biotechnology, Shivaji University Kolhapur was organized and poster presentation was organized on this day. Students were awarded for the best poster. by Dr. J. B. Patade as well as DBT Star College Scheme Coordinator Dr. S. R. Sable, Vice-Principal Dr. Prof.MV Kale and Principal Dr.S.A.Manjare got support.
Outcome/Remark	Student actively participated in the activity

## Report-

On the occasion of National Science Day on Wednesday, February 28, 2024, a special lecture by Prof. Jyoti Jadhav, the Head of the Department of Biotechnology at Shivaji University, Kolhapur, was organized. This event was a significant part of the day's celebrations, focusing on the importance of science and its impact on society. Prof. Jyoti Jadhav, a renowned academic and expert in biotechnology, delivered an insightful lecture that captivated the audience, comprising students, faculty, and other attendees. Her lecture emphasized the latest advancements in biotechnology and their potential applications in various fields, inspiring many young minds to pursue careers in science and research.

In addition to the lecture, a poster presentation competition was organized. This competition provided an excellent platform for students to showcase their research work and scientific projects. The posters covered a wide range of topics, reflecting the innovative and creative approaches of the students towards solving scientific problems. The poster presentations were evaluated by a panel of judges, including Dr. S. R. Patil and Dr. R. S. Dhabbe . The best posters were awarded, recognizing the hard work and ingenuity of the students. This recognition not only encouraged the students but also highlighted the quality of research being conducted at the institution.

The event received substantial support from several key figures at the institution. Dr. S. R. Sable, the DBT Star College Scheme Coordinator, played a crucial role in organizing and coordinating the event. His efforts ensured that the event ran smoothly and successfully. Vice-Principal Dr. Prof. M. V. Kale and Principal Dr. S. A. Manjare also provided their full support, demonstrating their commitment to fostering a robust scientific environment at the institution. Their involvement underscored the importance of National Science Day and the institution's dedication to promoting science and technology.

# राष्ट्रीय विज्ञान दिन साजरा करतानाचे फोटो







Latitude: 16.770824  
Longitude: 74.557524  
Elevation: 586.75±4 m  
Accuracy: 28.1 m  
Time: 28-02-2024 12:20

Note: Celebration of National Science Day-2024

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Latitude: 16.770851  
Longitude: 74.557631  
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Note: Celebration of National Science Day-2024

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Note: Celebration of National Science Day-2024

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Elevation: 586.65±2 m  
Accuracy: 3.2 m  
Time: 28-02-2024 13:19  
Note: Celebration of National Science Day-2024

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Elevation: 586.65±3 m  
Accuracy: 7.1 m  
Time: 28-02-2024 13:23  
Note: Celebration of National Science Day-2024

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Departmental Coordinator  
Department of Chemistry

PROJECT INVESTIGATOR

Dr. Sandip R. Sabale  
**Coordinator**  
DST-STAR College Scheme  
Jaysingpur College, Jaysingpur

HEAD OF THE INSTITUTION

Dr. Surat A. Manjare  
**PRINCIPAL**  
Jaysingpur College, Jaysingpur