



DEPARTMENT OF BIOTECHNOLOGY  
Ministry of Science & Technology  
Government of India



Anekant Education Society's

# JAYSINGPUR COLLEGE JAYSINGPUR

Religious Jain Minority | DST-FIST Level-I

Affiliated to Shivaji University, Kolhapur

Reaccredited by NAAC (3<sup>rd</sup> Cycle) with 'A' Grade (CGPA 3.24)

## DBT-STAR COLLEGE SCHEME

### ANNUAL PROGRESS REPORT (2025-26)

# Unleashing Curiosity: Metric Students Science Awareness Workshop (Year III)

**Dr. Sandip Sabale**

Coordinator

DBT-STAR COLLEGE SCHEME

**Dr. Surat 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

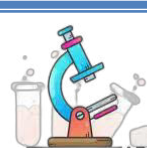
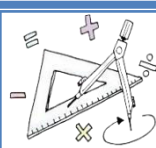


# Unleashing Curiosity: Metric Students Science Awareness Workshop (Year III)



Sponsored by

**DBT-STAR College Scheme**



**2025**

**Coordinator**

Dr. S. R. Sabale

**Principal**

Dr. S. A. Manjare

**Convenors**

Dr. P. P. Chikode

Dr. S. D. Umdale

Dr. R. S. Dhabbe

Dr. P. R. Patil

Dr. S. R. Patil

8<sup>th</sup> December 2025

and

9<sup>th</sup> December 2025

## **Unleashing Curiosity: Metric students Science Awareness Workshop (Year III)**

The Faculty of Science, under the DBT-Star College Scheme, successfully organized a two-day workshop for metric students from various high schools across the Shirol tehsil of Kolhapur District on December 8<sup>th</sup> and 9<sup>th</sup>, 2025.

This program was officially inaugurated by Principal Dr. S.A. Manjare, the workshop aimed to make science engaging and accessible, fostering a lasting passion for exploration and discovery among its participants.

At its core, the workshop emphasized scientific inquiry. A total of 593 students from 14 high schools engaged in hypothesis generation, hands-on experimentation, and vibrant discussions. Through practical activities, open debates, and collaborative problem-solving across Physics, Biology, and Chemistry, participants deepened their appreciation for the scientific method. The diverse program also included expert-led talks and guided tours of the college's gardens and biodiversity center.

Dr. Sachinkumar Patil, Head, Department of Zoology has delivered his on field talk on lifecycle of butterflies and concept of butterfly gardens. He also extended his talk on Sericulture.

The event concluded with a valedictory function, chaired by the honorable Dr. Subhas Adadande. This workshop celebrated the boundless enthusiasm and intellectual curiosity of all participants, aspiring to ignite curiosity and passion in future scientists.

Mrs. Shirolkar A. V. delivered a comprehensive demonstration of Identification of Halide Ions in Salts. She effectively illustrated the characteristic tests for chloride, bromide, and iodide ions. During the demonstration: For chloride ions, a white precipitate was obtained; For bromide ions, a light yellow precipitate was observed; For iodide ions, a bright yellow precipitate was distinctly formed.

Following the practical demonstration, Mrs. Shirolkar engaged the 10th-grade students by posing questions about the position of halogens in the long form of the periodic table. She ensured their understanding by providing the correct answers to all inquiries. She further explained that the elements of the halogen family, belonging to Group 17 of the periodic table, exhibit significant similarities in their properties. Overall, Mrs. Shirolkar's demonstration of identifying halide ions in salts was highly effective and well-executed.

Mrs. Patil P. D. conducted an insightful demonstration of Classification of Chemical Reactions for her 10th-grade students. Throughout the experiment, she illustrated key aspects of chemical reactions: She effectively showed the thermal changes involved, allowing students to perceive whether heat was absorbed or evolved by touching the reaction vessel. She demonstrated the reaction of lime with water. Next, she presented the reaction between copper sulfate and iron nails. Finally, Mrs. Patil showcased the reaction that occurs when solutions of sodium sulfate and barium chloride are mixed.

Mr. Bartakke S. A. conducted Experiment on Identification of Chemical Reactions, for his 10th-grade students. During the experiment, he effectively demonstrated several key chemical reactions: The combustion of a magnesium strip in air, the reaction of dilute sulfuric acid with zinc dust and the effect of heat on lead nitrate. Mr. Bartakke also took the opportunity to introduce himself to the students as a contributing author to several chapters of the Maharashtra State 10th-grade Science Textbook.

During the workshop, Mr. A.A. Magdum effectively explained the various parts of a flower and their respective functions. He detailed how petals attract insects for pollination, a process crucial for fruit development. He further clarified the distinction between chordate and non-chordate animals. Mr. Magdum explained that chordates possess a notochord in their bodies, which subsequently develops into a vertebral column. The primary function of this vertebral column is to protect vital organs such as the heart, spinal cord, lungs, and brain. In contrast, non-chordate animals are characterized by the absence of a notochord.

Miss A.A. Patil's session provided a clear explanation of the cell division process. She detailed the four distinct phases cells undergo: prophase, metaphase, anaphase, and telophase, noting that the cell division concludes at the end of telophase. Following this, she explained meiosis. Miss Patil clarified that meiosis proceeds in two main steps: Meiosis I and Meiosis II. She emphasized that this type of division occurs in germ cells to produce gametes, which are crucial for fertilization in both animals and plants.

## Details of the participating High-schools

S. No.	Name of the School	No. of Participants
01	Adarsh Vidyalaya, Kothali	86
02	Dharangutti Highschool, Dharangutti	39
03	Ghosarwad Highschool Ghosarwad	34
04	Tarabai Narade Highschool, Nandani	56
05	Laxminarayan Malu Highschool, Jaysingpur	151
06	Anekant English School, Jaysingpur	18
07	Appasaheb Urf S. R. Patil Highschool, Jambhali	67
08	Dnyanganga Highschool, Jaysingpur	26
09	Rukmani Mane Kanya Vidyalaya, Shirol	17
10	Rashtriya Vidyalaya	37
11	Bhagwanrao Ghatage Highschool, Chinchwad	19
12	New English School, Ghalwad	34
13	Madhyamik Ashram Shala	10
14	A.A. Patil Highschool, Kanwad	11
	Total	593

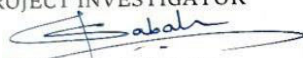




Jaysingpur, Maharashtra, India  
College, Near Main College Gate, Apte Colony,  
Jaysingpur, Maharashtra 416101, India  
Lat 16.770403° Long 74.557943°  
Tuesday, 09/12/2025 02:27 PM GMT +05:30



Jaysingpur, Maharashtra, India  
College, Near Main College Gate, Apte Colony,  
Jaysingpur, Maharashtra 416101, India  
Lat 16.770342° Long 74.557906°  
Monday, 08/12/2025 11:15 AM GMT +05:30

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**

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ReAccredited at 'A' Grade (NAAC-3<sup>rd</sup> Cycle) with 'W' Grade (CGPA 3.24)

**SUPPORT UNDER DBT - STAR COLLEGE SCHEME**



### Mentoring Workshop on **DBT - STAR COLLEGE SCHEME TO SUPPORT COLLEGES**

▶ SATURDAY 31<sup>ST</sup> JANUARY, 2026 ▶ TIME : 10.30 AM  
VENUE : CONFERENCE HALL

# Report

A comprehensive mentoring workshop under the DBT Star College Scheme was organized by Jaysingpur College, Jaysingpur on 31<sup>st</sup> January 2026 with the objective of guiding faculty members on the effective understanding, application, and implementation of the scheme. The workshop served as an important platform for capacity building, knowledge sharing, and academic enrichment for participating faculty.

The program was conducted under the chairmanship of Dr. Mahavir Akkole, who played a pivotal role in ensuring the smooth and structured execution of the workshop.

The event began with a formal inaugural session. Dr. Surat Manjare, Principal of Jaysingpur College, Jaysingpur, delivered the welcome and introductory address. In his speech, he emphasized the importance of the DBT Star College Scheme in strengthening undergraduate science education by improving infrastructure, promoting interdisciplinary learning, and encouraging research-oriented teaching methodologies. He also highlighted the need for more institutions to actively participate in such schemes to enhance academic quality and student engagement.

Following this, Dr. Sandip Sabale introduced the chief guests, Dr. Shrihari Pingale and Dr. Vashishtha Gurame. He elaborated on their academic backgrounds, research contributions, and extensive experience with DBT-related initiatives, setting the tone for the technical sessions.

The workshop witnessed in person as well as by online mode active participation from 54 faculty members representing 32 colleges. The participants showed keen interest throughout the sessions, engaging in discussions and clarifying their doubts regarding the scheme.

The technical sessions formed the core of the workshop and were highly informative. The chief guests provided detailed guidance on multiple aspects of the DBT Star College Scheme:

1. **Aim and Objectives of the Scheme:** The speakers explained that the primary goal of the scheme is to strengthen undergraduate science education by providing financial

support for improving laboratory facilities, promoting hands-on training, and encouraging innovative teaching practices.

2. **Eligibility Criteria:**A detailed explanation was given regarding institutional eligibility, including academic performance, infrastructure availability, and commitment to quality improvement.
3. **Requirements for Proposal Preparation:**The experts outlined the essential components of a strong proposal, such as institutional profile, departmental strengths, infrastructure details, academic achievements, and future plans.
4. **How to Prepare an Effective Proposal:**Practical tips were shared on drafting a clear, concise, and impactful proposal. Emphasis was placed on aligning institutional goals with the objectives of the scheme and presenting realistic and measurable outcomes.
5. **Fund Allocation System:**The speakers explained how funds are distributed under the scheme, including budget heads such as equipment, consumables, student activities, and faculty development programs.
6. **Procedure for Proposal Submission:**Step-by-step guidance was provided on the submission process, documentation requirements, and timelines, ensuring that participants understood the procedural aspects clearly.
7. **Implementation of the Scheme:**The resource persons discussed strategies for effective implementation, including proper planning, coordination among departments, and maintaining transparency in utilization.
8. **Effective Utilization of Funds:**Special emphasis was given to the optimal use of funds to achieve maximum academic benefit, including organizing workshops, strengthening laboratories, and enhancing student learning experiences.

Throughout the sessions, the speakers also shared real-life examples and experiences, which helped participants understand practical challenges and solutions in implementing the scheme.


An interactive question-and-answer session allowed participants to clarify doubts related to proposal writing, fund management, and compliance requirements. This segment was particularly beneficial, as it addressed institution-specific concerns.

The workshop concluded with a vote of thanks proposed by Dr. Prashant Chikode, who expressed sincere gratitude to the chief guests for their valuable guidance, the

chairperson for his leadership, the organizing team for their efforts, and all participants for their enthusiastic involvement.


In conclusion, the mentoring workshop was highly successful in achieving its objectives. It provided in-depth knowledge about the DBT Star College Scheme and empowered faculty members with the skills and confidence required to prepare competitive proposals and implement the scheme effectively in their institutions.





**ANEKANT EDUCATION SOCIETY'S  
JAYSINGPUR COLLEGE JAYSINGPUR**

Religious Job Ministry DBT FET Level Affiliated to Shivaji University Kolhapur  
Backscrolled at 'A' Grade (NAAC 'C' Grade) with 'B' Grade (COP 3.34)  
SUPPORT UNDER DBT - STAR COLLEGE SCHEME



**Mentoring Workshop on  
DBT - STAR COLLEGE SCHEME  
TO SUPPORT COLLEGES**

**SATURDAY 31<sup>st</sup> JANUARY, 2026 TIME : 10.30 AM  
VENUE : CONFERENCE HALL**

### ABOUT DBT - STAR COLLEGE SCHEME

Star College Scheme has been initiated by the Department of Biotechnology, Govt. of India in 2008 to support colleges under urban and rural categories offering undergraduate education to improve science teaching across the country. DBT is committed to the values of, Pursuit of excellence, Academic and Intellectual freedom, Creativity and innovation, Diversity, Cooperation and Communication, Accountability DBT has, therefore, launched a scheme for improving critical thinking and 'hands-on' experimental work at the undergraduate (college) level in sciences. It is expected to encourage, more students to take up higher education in science. DBT will identify colleges with ambition and potential for excellence and provide academic and physical infrastructure for achieving excellence in teaching and unique exposure of students to experimental science. Department has supported more than 200 undergraduate colleges across the country in the past 9 years. Apart from financial support, colleges have benefited tremendously from guidance received in Advisory Committee Meetings, mentoring, Task Force Meetings, and learning from peers in other colleges.

### PROVIDE FINANCIAL SUPPORT FOR


- New laboratory equipment.
- Support teachers and students experiential learning and training Program.
- Support for workshop, seminar and small research project.
- Emphasis on hands on learning activities.
- Outreach activities science promoting activities.
- Inclusion of new laboratory experiments and projects related to the curriculum.

### BENEFITS OF WORKSHOP

- The aim of DBT-STAR College Scheme
- Eligibility criterion of college for scheme
- Requirements for proposal preparation
- How to prepare proposal
- Fund allocation for each department
- How to submit proposal
- How to implement the scheme
- Effective utilization of funds

### REGISTRATION FOR WORKSHOP

- Registration for Workshop-Principal and one coordinator Science College can attend
- Registration can be done using registration link.
- No registration fee
- No TA/DA will be provided to participants
- Working lunch will be provided by organizers
- Registration deadline-28.01.2026



**REGISTRATION LINK :** <https://forms.gle/xV6GT19XXQzhzN2i8>

### RESOURCE PERSON

<b>Prof. Dr. Shrihari Pingle</b> Task Force Member DBT-STAR COLLEGE SCHEME	<b>Dr. Vashishtha Gurame</b> Coordinator DBT-STAR COLLEGE SCHEME Shri. Shivaji College, Barshi
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### OUR PATRONS

<b>Sh. Padmakar Patil</b> Trustee	<b>Dr. Mahavir Akkole</b> Secretary	<b>Dr. Subhash Adadande</b> Chairman
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**All Local Committee Members, Aneka Education Society**

### DBT-STAR COLLEGE SCHEME, JAYSINGPUR COLLEGE JAYSINGPUR ADVISORY COMMITTEE

<b>DBT REPRESENTATIVE</b> Dr. Ganeta Gupta Science-F & Programme officer DBT-New Delhi	<b>CHAIRMAN</b> Dr. Surat Manjare Principal Jaysingpur College, Jaysingpur	<b>COORDINATOR</b> Dr. Sandip Sabale Associate Professor Jaysingpur College, Jaysingpur
<b>EXTERNAL EXPERT</b> Prof. Dr. Jyoti Jadhav Pte. Vice-Chancellor and Head, Department of Biotechnology, Savitribi University, Kolhapur	<b>EXTERNAL EXPERT</b> Prof. Dr. Shrihari Pingle B.S.S. Science College, Sangameshwar, Maharashtra	

### MEMBERS

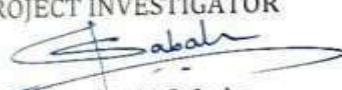
<b>Dr. Prashant Chikode</b> Department of Physics	<b>Dr. Sachinbhar Patil</b> Department of Zoology	<b>Dr. Sonaj Umrale</b> Department of Botany
<b>Dr. Babant Dhatke</b> Department of Chemistry	<b>Mr. Prilam Patil</b> Department of Mathematics	<b>Mr. Sanjay Chavare</b> Account and Finance Officer

### ORGANISING COMMITTEE

<b>Prof. Dr. Manisha Kale</b>	<b>Prof. Dr. Smita Mahajan</b>	<b>Prof. Dr. Balasahab Sargar</b>
<b>Prof. Dr. Kavindra Mase</b>	<b>Mr. Raja Sasgaonkar</b>	<b>Dr. Gunanath Nikam</b>
<b>Mr. Ramesh Shinde</b>	<b>Mr. Kabir Kumbhar</b>	<b>Mr. Varsha Shinde</b>

### CONTACT FOR MORE DETAILS

<b>Prin. Dr. Surat Manjare</b> 9822215548	<b>Dr. Sandip Sabale</b> 9371594299	<b>Dr. Sonaj Umrale</b> 8806323229
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**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**



# Jaysingpur College Jaysingpur

DBT Stat College Scheme  
Sponsored

## SCIENCE EXHIBITION

For Secondary and Higher Secondary  
Students and Teachers

Coordinator

**Dr. Sandip R. Sabale**

Event Date:

**17, 18, & 19  
December 2025**



# Report

A Science Exhibition serves as a platform where students, researchers, and innovators showcase their creativity, scientific knowledge, and experimental skills. It is an educational event that allows participants to present various scientific concepts, innovations, and ideas through interactive projects, experiments, and displays. These exhibitions are organized to foster curiosity, encourage critical thinking, and promote the practical application of scientific theories.

The primary objective of a science exhibition is to stimulate interest in science and technology among the participants and the audience. It provides an opportunity for students and researchers to explore real-world problems, propose solutions, and develop hands-on projects that demonstrate scientific principles in action. Moreover, such exhibitions allow individuals to demonstrate their problem-solving abilities, teamwork, and communication skills, which are essential for pursuing careers in STEM fields.

In this report, we will outline the various highlights of the exhibition, including the themes, objectives, categories of projects, and the overall impact on participants and visitors. By examining the scope of the event, we aim to provide an insightful overview of the ways in which the science exhibition contributes to the educational and professional development of its participants.

DBT Star College Scheme has organized the taluka-level science exhibition in association with Zilla Parishad Kolhapur and the Panchayat Samiti, Shirol at Jaysingpur College Jaysingpur on between 17<sup>th</sup> December 2025 and 19<sup>th</sup> December 2025. The science exhibition featured exhibits in a total of six categories.

- 1) Upper primary student group (grades 6 to 8)
- 2) Secondary and higher secondary student group (grades 9 to 12)
- 3) Students with disabilities group
- 4) Secondary School teacher-created teaching materials group
- 5) Higher Secondary teacher-created teaching materials group
- 6) Laboratory attendant and laboratory assistant teaching materials creation group

The competition was held in various categories, with a total of 158 participants in this science exhibition. Ten judges officiated as examiners for the exhibition. Registration and setup took place on 17<sup>th</sup> December 2025, the inauguration and judging on December 18<sup>th</sup>, and the prize distribution and closing ceremony on 19<sup>th</sup> December 2025.

The science exhibition was organized jointly by the Zilla Parishad, Kolhapur, the Shirol Panchayat Samiti, and Jaysingpur College, Jaysingpur. Mr. Ajay Patil, Deputy Education Officer, Zilla Parishad Kolhapur, was the chief guest for the inaugural function, while the key note address was given by Dr. Prashant Chikode, Physics Department, Jaysingpur College, Jaysingpur. The program was chaired by Dr. A. B. Adadande, Chairman, Local Committee, Jaysingpur College Jaysingpur. The event was graced by the presence of Mrs. Bharti Koli, Block Education Officer, Shirol Panchayat Samiti, Mr. Deepak Kamat, Education Extension Officer, Shirol Panchayat Samiti, and Meghana Desai, Cluster Head. The Principal of Jaysingpur College, Dr. Surat Manjare, given an introductory and welcome speech on Inaugural function of this program. The inaugural function was compered by Mr. Kiran Patil, and the vote of thanks was given by Mr. Bharat Aldar.

The prize distribution and closing ceremony was arranged on 19<sup>th</sup> December 2025. The chief guests for the closing ceremony were the institution's secretary, Dr. Mahaveer Akkole, and institution member Mr. Ashok Shirguppe. Mr. Shrishail Mathpati, Vice President of the State Science Board, Deepak Kamat, Panchayat Samiti Extension Officer, and Meghan Desai, Head of the Municipal Education Board grace the program. The closing ceremony was compered by Mr. Mahesh Ghotne, and the vote of thanks was given by Prof. R. R. Kore. The science exhibition was held with great enthusiasm on December 17<sup>th</sup>, 18<sup>th</sup>, and 19<sup>th</sup>. Students, teachers, and parents from various secondary schools in the taluka, as well as students from all schools in Jaysingpur, flocked to see the exhibition. Dr. Sachinkumar Patil showed the butterfly garden at the college and the collection of various animals in the Zoology Department.

Dr. Sandip Sabale coordinated this program with his DBT Star College Scheme Committee. The Block Education Officer, Mrs. Bharti Koli, Education Extension Officer Mr. Deepak Kamat, the Taluka Science Committee, the institution's president Hon. Dr. Subhash Adadande, the institution's secretary Hon. Dr. Mahavir Akkole, Principal Dr. Surat Manjare, Vice-Principal Mr. Bharat Aldar, Supervisor Mr. Mahavir Burse, all the junior college teachers, office superintendent Mr. Sanjay Chavare and all the office staff, non-teaching staff, peons, as well as the NCC and NSS department heads and their students from the college, provided invaluable support in making this science exhibition a success.



शिक्षण विभाग पंचायत समिती, शिरोळ  
व  
जयसिंगपूर कॉलेज, जयसिंगपूर  
Under DBT Star College Scheme  
यांच्या संयुक्त विद्यमाने

५३ वे  
तालुकास्तरीय  
**विज्ञान प्रदर्शन** सन २०२५-२६

विषय : विकसित आणि आत्मनिर्भर भारतासाठी STEM

**उद्घाटन समारंभ**  
दि. १८ डिसेंबर २०२५

संयोजक :- विज्ञान समिती शिरोळ

**Report On  
Celebration of National Science Day**

**JAYSINGPUR  
COLLEGE,  
JAYSINGPUR.**



***Theme:***  
***Science and Technology for  
Sustainable Development***

**Organized by  
SCIENCE  
ASSOCIATION  
&  
DBT STAR  
COLLEGE SCHEMES  
Date: 28/02/2026**



Anekant Education Society's  
**Jaysingpur College, Jaysingpur**  
**Science Association and DBT- Star College Scheme**

## Report On Celebration of National Science Day

Year:	2025-26
Name of the Activity:	Guest Lecture and Poster-Model Presentation Competition
Date:	28rd Feb 2026
Venue:	Conference hall
Convenor:	Mr. P. R. Patil.
Organised for:	Students, Teaching Staff
No. of Participants	(44 Students , 14 Teachers)
Nature:	Academic
Chief Guest/s or Resource Person/s	Dr. Jyotiprakash B. Yadav, Head and Senior Scientific Officer, University Science Instrumentation Centre, Shivaji University, Kolhapur.



ANEKANT EDUCATION SOCIETY'S  
JAYSINGPUR COLLEGE, JAYSINGPUR



**Organizer: Science Association**  
**NATIONAL SCIENCE DAY**  
**Support: DBT- Star College Scheme**  
*Theme: Science and Technology for Sustainable Development*

**RESOURCE PERSON**



**Prof. Jyotiprakash B Yadav**  
Head & Senior Scientific Officer,  
University Science Instrumentation Centre  
Shivaji University, Kolahpur.

❖ **PATRON**  
Dr. Subhash Adadande (Chairman)  
Dr. Mahavir Akkole (Secretary)

❖ **ORGANIZING COMMITTEE**  
Dr. S. A. Manjare (Principal)  
Prof. Dr. S.S. Mahajan (Head, Science branch)  
Dr. S. R. Sabale (Coordinator, DBT Star College)  
Mr. P. R. Patil (Convenor, Science Association)

❖ **MEMBERS**  
Dr. P. P. Chikode    Dr. S. R. Patil    Dr. S. D. Umdale  
Dr. R. S. Dhabbe    Dr. A. P. Mane

❖ **ARRANGED PROGRAM**  
**Poster & Model Presentation**

**28<sup>th</sup> February, 2026, Saturday @ 11:30 am Venue: Conference Hall**

# Report on Celebration of National Science Day

## 1. INTRODUCTION

National Science Day is celebrated across India on February 28 each year to commemorate the discovery of the Raman Effect by Sir C. V. Raman and to promote scientific temper among students. In alignment with this objective, Anekant Education Society's Jaysingpur College organized a National Science Day program on **February 28, 2026, at 11:30 a.m.** in the **Conference Hall**.

The event was conducted under the theme "**Science and Technology for Sustainable Development**", highlighting the crucial role of science in addressing global challenges. The program was organized with the support of the **DBT-Star College Scheme**, which aims to strengthen undergraduate science education and promote research-oriented learning.

## 2. OBJECTIVES OF THE PROGRAM

The event was organized with the following objectives:

- To create awareness about the importance of science in everyday life.
- To highlight the role of science and technology in achieving sustainable development.
- To inspire students to develop a scientific and research-oriented mindset.
- To provide exposure to modern scientific advancements and instrumentation.
- To encourage participation in scientific activities such as exhibitions, projects, and discussions.

## 3. INAUGURAL SESSION

The program commenced with a warm and cordial welcome address by **Mr. P. R. Patil**, who greeted the dignitaries, faculty members, and students. In his address, he emphasized the importance of celebrating National Science Day and underlined the need to cultivate scientific awareness and curiosity among students.

Following this, **Dr. P. P. Chikode** formally introduced the chief guest and keynote speaker, **Prof. Jyotiprakash B. Yadav**, Head of the University Science Instrumentation Centre, Shivaji University, Kolhapur. He highlighted Prof. Yadav's academic achievements, research contributions, and expertise in scientific instrumentation.

## 4. KEYNOTE LECTURE BY PROF. JYOTIPRAKASH B. YADAV

The keynote lecture delivered by Prof. Yadav was the central and most impactful segment of the program. His talk was highly informative, engaging, and thought-provoking.

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### 4.1 ROLE OF SCIENCE IN GLOBAL CHALLENGES

Prof. Yadav began by discussing the evolving role of science in addressing major global issues such as:

- Climate change
- Energy crises
- Environmental degradation

He explained how scientific advancements and technological innovations are essential tools in tackling these challenges and achieving sustainable development goals (SDGs).

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### 4.2 IMPORTANCE OF INNOVATION AND INTERDISCIPLINARY APPROACH

He emphasized that innovation is the backbone of sustainable development and encouraged students to adopt an interdisciplinary approach. According to him, integrating knowledge from various scientific fields leads to the development of practical, efficient, and sustainable solutions.

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### 4.3 SCIENTIFIC INSTRUMENTATION AND RESEARCH

A significant part of his lecture focused on the role of **modern scientific instrumentation**. He elaborated on how advanced analytical tools:

- Enhance precision and accuracy in research
- Enable deeper understanding of scientific phenomena
- Support innovation across multiple domains

He also provided insights into the functioning and applications of instrumentation facilities available at university research centers.

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### 4.4 SUSTAINABLE TECHNOLOGIES AND REAL-LIFE APPLICATIONS

Prof. Yadav highlighted several examples of sustainable technologies, including:

- Renewable energy systems such as solar and wind power
- Waste management and recycling technologies
- Eco-friendly industrial processes

These examples helped students understand the practical applications of science in solving real-world problems.

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#### 4.5 MOTIVATION FOR STUDENTS AND CAREER GUIDANCE

Prof. Yadav strongly encouraged students to develop a **research-oriented mindset** by:

- Asking questions and exploring ideas
- Participating in projects, seminars, and exhibitions
- Engaging in laboratory-based learning

He also discussed the opportunities available under the **DBT-Star College Scheme**, which provides students with access to better laboratory facilities and research exposure.

Sharing his own academic journey, he inspired students to pursue higher education and careers in science with dedication, curiosity, and perseverance.

---

#### 4.6 INTERACTIVE SESSION

The lecture was followed by an interactive session where students actively participated by asking insightful questions related to:

- Research opportunities and career pathways
- Laboratory techniques and instrumentation
- Innovation and scientific problem-solving

Prof. Yadav responded to all queries enthusiastically, making the session lively and intellectually stimulating.

#### 5. STUDENT EXHIBITION: POSTER AND MODEL PRESENTATIONS

After the lecture, a student exhibition was आयोजित featuring **poster and model presentations** on various scientific and sustainability-related themes.

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### 5.1 PARTICIPATION AND THEMES

Students from different science departments presented innovative ideas and concepts related to:

- Environmental conservation
  - Renewable energy
  - Biotechnology applications
  - Waste management
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### 5.2 EVALUATION AND FEEDBACK

Prof. Yadav visited the exhibition stalls, carefully examined each presentation, and provided valuable and constructive feedback. He appreciated the creativity and efforts of the students while also guiding them on improving their concepts and presentation techniques.

Certificates were awarded to students for:

- **Best Poster Presentation**
- **Best Model Presentation**

This recognition motivated students to actively participate in scientific activities.

## 6. OUTCOME OF THE PROGRAM

The National Science Day celebration proved to be highly successful and impactful. The key outcomes include:

- Increased **scientific awareness and curiosity** among students.
- Enhanced understanding of **sustainable development concepts**.
- Encouragement towards **innovation and research activities**.
- Exposure to **modern scientific tools and technologies**.
- Motivation to pursue **higher education and careers in science**.





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