



सत्यमेव जयते

**DEPARTMENT OF BIOTECHNOLOGY**  
Ministry of Science & Technology  
Government of India



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# DBT-STAR COLLEGE SCHEME

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## PROJECT COMPLETION REPORT



**Assessment Period**  
**29/09/2022 to 28/03/2026**

**Submitted by**  
**JAYSINGPUR COLLEGE JAYSINGPUR**

(HRD-11011/11/2022-HRD-DBT)

# **COMPLETION REPORT**

**(29.09.2022 to 28.03.2026)**

**Department of Biotechnology**

## **Proforma for submission of Completion Report supported under Star College Scheme**

- Name of the College:** JAYSINGPUR COLLEGE JAYSINGPUR
- Name of Coordinator:** Dr. Sandip R. Sabale  
**Designation:** Professor  
**Address:** Jaysingpur, Tal-Shirol, Dist- Kolhapur, Maharashtra, India  
**Phone No:** +91-9422518653
- (A) **Assessment duration:** 29/09/2022 to 28/03/2026 (B) **Duration in years:** 03 years  
(C) **Extension period if any:** NA
- Details of Departments Supported:**

Sl. No.	Name of Department	Courses (B.Sc./M.Sc./PG Diploma,certificate etc.) offered	Regular Faculty members	
			Total = 39	
			With Ph.D.	Without Ph.D.
1	Chemistry	B.Sc. & M.Sc. (Analytical & Organic)	07	06
2	Botany	B.Sc., Certificate course in Plant tissue culture	04	03
3	Zoology	B.Sc., Certificate course in MLT	05	03
4	Physics	B.Sc.	05	02
5	Mathematics and Statistics	B.Sc.	01	02

- Number & Date of Advisory committee meeting held:**

Sr. No.	Date
01	20 <sup>th</sup> January, 2025
02	31 <sup>st</sup> January, 2026

- Qualitative improvements due to DBT support. Please highlight 5 salient points (within 1000 words).
  - Academic:** As proposed in the objectives with the help of equipment's and chemicals procured under DBT-Star support, the students are acquainted to handle instruments. As the number of instruments increased, the students are getting hands-on experiments. 16 computers were newly added to Mathematics department, as well as a smart classroom has been established so that students can perform hands-on practical individually. Our students are first learner to the computer as they are from rural area. DBT Star college scheme has provided a wonderful facility to our students to be a part of this scheme and will be useful to enrich their knowledge in the computer languages related to mathematics and their applications in the interdisciplinary research.
  - Research Activities:** Students are motivated to involve in learning through research, henceforth students have allotted interdisciplinary minor research projects, participated and presented work in conference, 16 students have been participated in district/university level Avishkar Research Convention organised by

Shivaji University Kolhapur and received four prizes. 49 students were participated and presented their research in national/international conferences. Institute has established Life Science Research Laboratory and Physics Research laboratory with the support of DBT-STAR College Scheme. Our 6 teachers received minor research projects grant from Shivaji University Kolhapur. The faculty members published 109 research papers in Scopus indexed journals.

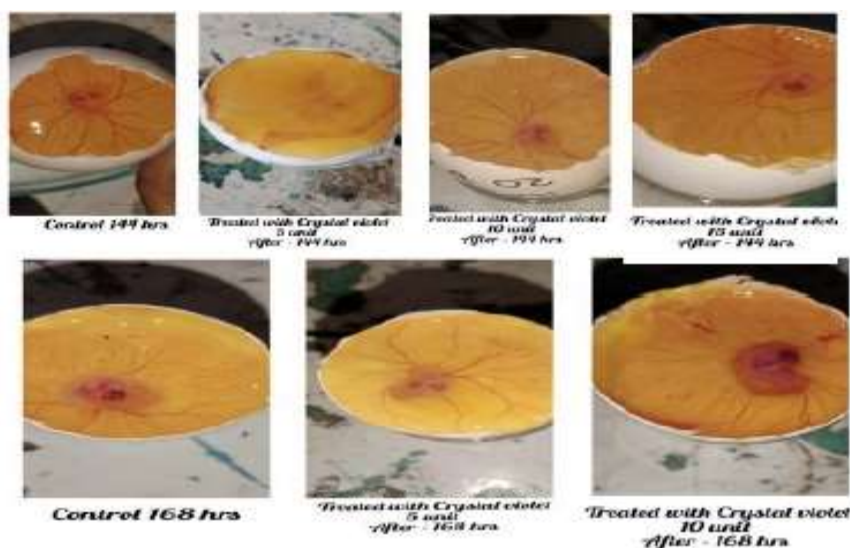
- 3) Organization of Workshop, Conference and Lectures:** Institute has organised two national conferences, 35 workshops, 19 hands-on trainings; 19 exhibitions; 21 wallpaper activities; 13 student seminars and 35 guest lectures during period of DBT-STAR College Support.
- 4) Industrial visit and field visits:** Sponsored departments have organized industrial and field visits to bridge a gap between theoretical knowledge and practical applications. Students have explored to practical exposure, understanding industry practices, insight into production methods, interactions with industrial professionals, career opportunities, innovation and technology, safety and environmental practices.

Apart from above mentioned qualitative improvements, we would like to focus in the following projects in which students were actively involved. All this work is presented in Avishkar Convention.

### 1) Effect of crystal violet on the growth of chick embryo

**Objective:** To investigate the potential use of crystal violet dye as a tool for studying embryological development and angiogenesis patterns in chick embryo.

**Outcome:** The study revealed that the exposure crystal violet dye, whether directly or indirectly can have detrimental effects on the development of chick embryo. Even low doses of dye can lead to reduced egg weight, nutritional value, as well as disrupt normal angiogenesis and ultimately impact embryo size. These findings highlight the potential toxicity of crystal violet dye on the biological and physiological process involved in embryonic development.



### 2) Modification of Sugar Cane Bagasse as bio-absorbent and its reuse in industrial application

**Objectives:** To prepare the bio-adsorbents from sugar cane bagasse by partial bleaching method for environmental dye remediation and its post use in composite fabrication for futuristic industrial application.

**Purpose:** The conversion of waste in to value added products is the way of agro-waste management. Herein, bagasse is modified by partial bleaching to sustain its strength and aesthetic properties. The

obtained material employed for the removal of Reactive blue dye from an aqueous solution followed by its sustainable application for futuristic composite material for industrial applications.


**Conclusion:** The modified bagasse showed good adsorption property for the reactive blue dye. The adsorbent is useful for the environmental remediation especially for dye industry effluent. The post adsorbed material is further used to form a composite instead of its disposal. The obtained composite is useful in further industrial applications, such as box making, sound absorber etc. The Bio-polymer based composite is also prepared which can be easily disposed as a manure after use.



### 3) Formulation of Millets milk powder for nutritive and good health

Objectives: Formulation of millet powder using Bajara and its nutrient contents to enumerate health advantages

**Outcome:** Healthy and nutrient full of millet milk powder was formulated and nutrient value was estimated. Planning for the commercial production of milk powder in future with enhanced quality



**Health benefits of Bajara :**

- Reduces risk of breast cancer.
- Reduces risk of childhood Asthama.
- Promotes bones health.
- Reduces cholesterol.
- Reduces risk of inflammatory diseases.
- Reduces risk of cardiovascular disease.

**Nutritional Evaluation :**

Sr.	Parameter	Unit	Value
1.	Moisture	%	03.10
2.	Total Minerals	%	00.87
3.	Crude Protein	%	05.16
4.	Crude Fat	%	01.77
5.	Crude Fiber	%	00.00
6.	Carbohydrate	%	89.10
7.	Energy	Kcal/100g	392.97

#### 4) Panchganga River Water Quality Monitoring

**Objective:** To monitor the water quality of the Panchganga River.

**Outcome:** The students of B.Sc. II have undertaken the Panchganga River water monitoring mission. Students collected water samples from 5 selected sampling sites for three seasons and prepared detailed project report and submitted.

#### 5) Shirol Tahsil Soil Health Mission

**Objective:** To monitor the soil health under soil health mission

**Outcome:** The students of B.Sc. III have undertaken the soil health mission. Students collected 362 samples from various villages of Shirol Tahsil and analyzed pH, EC, organic carbon, K, P, N, and micronutrients using various techniques and prepared soil health cards.

### 7. Any Novel aspect introduced or planning to introduce during the Scheme duration.

#### ❖ Unleashing Curiosity: A Science Promotion Workshop for Matric students:

Faculty of Science organized three days' Workshop for metric students for the three consecutive years under the DBT-STAR College Scheme. 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 student. The purpose of this workshop was to promote the science among students from matric level in the rural area.

Year	Date	No. of Schools	Number of Beneficiaries
2023-24	21.12.2023 to 23.12.2023	08	221
2024-25	05.12.2024 to 07.12.2024	17	558
2025-26	08.12.2025 to 09.12.2025	14	593

#### ❖ Science Exhibition:

College has organized the taluka-level science exhibition in association with Zilla Parishad Kolhapur and the Panchayat Samiti, Shirol at Jaysingpur College Jaysingpur under DBT Star College Scheme between 17<sup>th</sup> December 2025 to 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.

**8. Lessons learnt / difficulties faced/suggestions if any, in implementation of the programme and utilization of DBT grant. (Max 3 points within 300 words).**

- Our academic year is June to May, so we were not aware of the time constraint as well as the organization of lectures/workshops that have been planned. However, the planned programs will be executed before the term end.
- The university examinations were scheduled and postponed, which hampered the semester and calendar of activities, but we have learnt to execute the scheduled activities without time deviation.

## 9. Key performance indicators

S. no	Indicator	Pre-support (2022-23)	During /After Support																	Remarks		
1	No. of students admitted	<b>Total = 498</b>										<b>2023-24 (Total = 344)</b>										College Follows admission rules applied for Jain Minority colleges
		<b>M= 241</b>					<b>F= 257</b>					<b>M= 159</b>					<b>F= 185</b>					
		Mino	SC	ST	OBC	G	Mino	SC	ST	OBC	G	Mino	SC	ST	OBC	G	Mino	SC	ST	OBC	G	
		38	26	01	69	107	45	43	01	70	98	34	17	00	70	38	35	20	00	90	40	
												<b>2024-25 (Total-383)</b>										
		<b>M= 181</b>					<b>F= 202</b>															
		Mino	SC	ST	OBC	G	Mino	SC	ST	OBC	G											
		35	25	00	42	79	31	22	01	59	89											
										<b>2025-26 (Total 357)</b>												
<b>M= 176</b>					<b>F= 181</b>																	
Mino	SC	ST	OBC	G	Mino	SC	ST	OBC	G													
40	35	03	36	62	38	32	03	52	56													
2	Admission cut-off %											<b>Academic Year-</b>			<b>2023-24</b>	<b>2024-25</b>	<b>2025-26</b>					
3	No. of students passing out (%)	73.52 %										Passing out (%)			94.61%	95.20 %	NA	Semester end examination ongoing (April-May- 2026)				
4	Drop-out rates	5.6%													5.2%	4.6%	4.2%					
5	No. of students opting for MSc / M. Tech/ PG Diploma in Science	Botany: 00 Zoology: 06 Chemistry: 22 Physics: 03 Mathematics & Statistics: 02					Botany Zoology Chemistry Physics Mathematics & Stat					03 02 22 04 02	06 03 25 05 10	07 04 17 02 04								
6	Average marks	70 %										73 %										Semester end examination ongoing (April-May- 2026)

7	No. of hands-on experiments being conducted	Botany: 138 Zoology: 97 Chemistry: 89 Physics: 84 Mathematics & Statistics: 93	Botany Zoology Chemistry Physics Mathematics & Stat	151 106 97 92 99	145 130 123 105 99	155 140 136 123 87	
8	No. of new experiments introduced	NA	Botany Zoology Chemistry Physics Mathematics & Stat	13 08 08 06 06	14 13 08 06 09	14 13 08 06 09	
9	Publications (Scopus indexed) /patents, if any.	NA	Botany Zoology Chemistry Physics Mathematics & Stat	02 03 10 03 01	05 03 32 08 01	06 01 24 08 02	All Scopus Indexed; No. of patents- 05 (India, UK, Korea)
10	Training received by (A) Faculty (B) Students (Summer/ Winter Projects)	08	Botany Zoology Chemistry Physics Mathematics & Stat	02 02 06 04 02	04 04 12 06 06	05 06 06 06 04	
11	Exhibitions/seminars /training courses conducted	06	National Conferences: Hands-on Organized: Workshops/Seminars: Exhibition: Wallpaper: Student Seminar:	01 04 05 09 06 02	01 06 13 05 07 06	00 09 17 05 08 05	
12	Books/journals subscribed from grants	00		NA	NA	NA	
13	Outreach activities (Popular lectures)	00		Industrial/Field visits & Study tours: 13 Research Methodology: 01 Avishkar: 01 Environment	Industrial/Field visits & Study tours: 16 Research methodology: 01 Avishkar: 01	Industrial/Field visits & Study tours: 12 Research methodology: 01 Environment	

				Awareness Rally: 01 National Day Celebrations: 02	Environment Awareness Rally: 03 National Day Celebrations: 02 (NMD, NSD)	Awareness Rally: 03 National Day Celebrations: 02 (NMD, NSD)	
14	Colleges mentored to apply for DBT Star College grants	NA		02	02	Mentoring Workshop	
15	Invited lectures	00	Botany Zoology Chemistry Physics Mathematics & Stat	01 01 01 01 01	04 03 03 03 02	04 04 03 02 02	

## ❖ Workshops, Seminars, Hands-on Trainings, Study/industrial visit organised by the departments under DBT-Star College Scheme:

### 1) 2023-24:



## Avishkar Convention- 2023-24 Organised by Shivaji University Kolhapur



## WORKSHOP ON UV-VISIBLE, FTIR & FLAME PHOTOMETRY

Anekar Education Society's  
**Jaysingpur College, Jaysingpur**  
DIAMOND JUBILEE YEAR-2023-24

One day workshop on  
"UV-Visible, FTIR and Flame photometry"  
Under  
DIT-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



**Organising Committee**

Dr. R. S. Dhabhe Dept. Coordinator	Prof. Dr. B. M. Sargar HOD, Dept. of Chemistry	Mr. B. D. Takarkar Associate Science Association
Dr. S. R. Salate Coordinator DIT Star College	Prof. Dr. M. V. Kulkarni Vice-Principal	Dr. S. A. Manjare Principal
Mr. K. R. Bhandarkar	Dr. G. H. Nikam	Dr. A. A. Koli
Dr. P. P. Chitambar	Dr. S. R. Patil	Dr. S. D. Usadale
		Dr. J. B. Patade

## RESEARCH OPPORTUNITIES IN KOREAN UNIVERSITIES

Anekar Education Society's  
**Jaysingpur College, Jaysingpur**  
DIAMOND JUBILEE YEAR-2023-24

One day Seminar on  
"RESEARCH OPPORTUNITIES IN  
SOUTH KOREAN UNIVERSITIES"  
Under  
DIT-Star College Scheme

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



**RESOURCE PERSON**

**SEJONG UNIVERSITY**

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

**Organising Committee**

Dr. S. B. Sabale Coordinator DIT Star College	Prof. Dr. M. V. Kulkarni Vice-Principal	Dr. S. A. Manjare Principal
	Prof. Dr. B. M. Sargar	Dr. R. D. Mane
Dr. P. P. Chitambar	Dr. S. R. Patil	Dr. S. D. Usadale
	Dr. J. B. Patade	Dr. R. S. Dhabhe

## 2) 2024-25:

### Unleashing Curiosity: Science Promotion Workshop For Matric Students (05.12.2024 to 07.12.2024) SCHOOL [COLLEGE] CONNECT PROGRAM (NEP-2020) Under Assistance of DBT STAR COLLEGE SCHEME



### Hands-On Workshop for college teachers on using *Drosophila melanogaster* for Biology Laboratory Classes



### "Protecting Intellectual Property and Maximizing International Collaboration at STEM Conferences" Workshop in Mumbai, India from 11-13 June 2024



**Dr. S. R. Sabale,  
Dr. S. D. Umdale,  
Dr. R. S. Dhabbe  
Dr. S.R. Patil**

### OUTREACH ACTIVITIES: SOCIETY OUT-RICH PROJECT UNDERTAKEN

#### • Panchganga River Water Quality Monitoring



#### • Shirol Tahsil Soil Health Mission



### 3<sup>rd</sup> One Day National Conference on "Advances in Material and Applied Sciences" on 20<sup>th</sup> March, 2025



### Faculty Development Programs attended by staff

04



### Teacher's training Programs attended by staff

31



### Green Club (Jaysingpur College)

Organized By:  
**Green Club**  
(Jaysingpur College)  
Academic Year - 2023-24

Index	
1. Poster presentation	1500/2023
2. Copper Challenge-2023	1600/2023
3. Invention Exhibition	1850/2023
4. Paper Boat Exhibition	1900/2023
5. Guest Lecture on Bio-variety of Forest and Conservation	1910/2023
6. World Wide Bio-week poster competition	1910/2023
7. World Wide Bio-week photography exhibition	1910/2023



**Sanctioned Interdisciplinary Minor Research Project by Shivaji University  
Kolhapur (2023-24 to 2024-25)**

Name of Project	Investigators	Amount
Studies on Consortium Effect of Bimetallic Micronutrient based Chitosan Nanoparticles (ChNPs) on Cultivated <i>Vigna</i> species	<b>PI- Dr. Suraj Umdale (Botany)</b> <b>Co-PI: Dr. Sandip Sabale (Chemistry)</b>	1,70,000
Valorization of Polymer Waste Into Sustainable Activated Carbons For Co2 Capture And Supercapacitor-based Energy Applications	<b>Dr. Sandip Sabale (Chemistry)</b>	60,000
Green Synthesis Of Magnetic Nanoparticles, Their Characterizations & Catalytic Applications	<b>Dr. Gurunath Nikam (Chemistry)</b>	1,30,000
Analysis Of Novel Special Function	<b>Dr. Jayvant Patade (Mathematics)</b>	70,000
Synthesis And Characterization Of Copper Doped Bismuth Vanadate For Photocatalytic Degradation Of Organic Compounds	<b>Dr. Prashant Chikode (Physics)</b>	1,50,000
Insight to the phytochemical composition of host plants with special reference to Plain Tiger Butterfly <i>Danaus chrysippus</i> (Linn.)	<b>PI- Dr. Sachinkumar Patil (Zoology)</b> <b>Co-PI: Dr. Suraj Umdale (Botany)</b>	1,50,000

**Establishment of Mathematical Computer Lab**



**Life-science Research Laboratory**



**Physical Sciences Research Laboratory**



**Publications (Scopus indexed) = 49**



**Academic Books & Book Chapters Published**



### 3) 2025-26:

#### Unleashing Curiosity: Metric Students Science Awareness Workshop (Year III) (08.12.2025 to 09.12.2025) SCHOOL [COLLEGE] CONNECT PROGRAM (NEP-2020)

Schools Participate	No. Student Beneficiaries
14	593

**Unleashing Curiosity: Metric Students Science Awareness Workshop (Year III)**  
Sponsored by **DBT-STAR College Scheme**

**2025**

Co-ordinator Dr. S. S. Sabale	Principal Dr. S. S. Manjare
Dr. P. P. Chikude	Dr. S. S. Vaidya
Dr. S. S. Dhadke	Dr. P. R. Patil
Dr. S. S. Patil	

**Jaysingpur, Maharashtra, India**  
College, Near Man College Gate, Apte Colony, Jaysingpur, Maharashtra 431321, India  
Lat: 16.77082° Long: 74.65768°  
Sat: 08/12/2025 10:37 AM GMT +05:30

**Jaysingpur, Maharashtra, India**  
College, Near Man College Gate, Apte Colony, Jaysingpur, Maharashtra 431321, India  
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#### MENTORING WORKSHOP ON "DBT-STAR COLLEGE SCHEME TO SUPPORT COLLEGES (31<sup>st</sup> January, 2026)

**JAYSINGPUR COLLEGE JAYSINGPUR**  
ANANEK EDUCATION SOCIETY'S  
JAYSINGPUR COLLEGE JAYSINGPUR  
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

**Jaysingpur, Maharashtra, India**  
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Sat: 08/12/2025 11:02 AM GMT +05:30

#### SCIENCE EXHIBITION- For Secondary and Higher Secondary Students & Teachers (17<sup>th</sup> to 19<sup>th</sup> December, 2025)

**Jaysingpur College Jaysingpur**  
DBT Star 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**

**विज्ञान प्रदर्शन**  
उद्घाटन समारंभ

Schools Participate	Student participants
06	158

**Jaysingpur, Maharashtra, India**  
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**Jaysingpur, Maharashtra, India**  
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Sat: 08/12/2025 11:02 AM GMT +05:30

#### CELEBRATION OF NATIONAL SCIENCE DAY- Science & Technology for Sustainable Development

**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  
Shri Sai University, Kolhapur.

**PATRON**  
Dr. Subhash Adalende (Chairman)  
Dr. Mahavir Akhale (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 (Common Science Association)

**MEMBERS**  
Dr. P. P. Chikude Dr. S. R. Patil Dr. S. D. Umdekar  
Dr. R. S. Dhadke Dr. A. A. Patil

**ARRANGED PROGRAM**  
Poster & Model Presentation

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

**Jaysingpur, Maharashtra, India**  
College, Near Man College Gate, Apte Colony, Jaysingpur, Maharashtra 431321, India  
Lat: 16.77082° Long: 74.65768°  
Sat: 08/12/2025 12:30 PM GMT +05:30

**Jaysingpur, Maharashtra, India**  
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Sat: 08/12/2025 11:02 AM GMT +05:30

Publications (Scopus indexed) = 40



Establishment of Mathematical Computer Lab



Life-science Research Laboratory



Physical Sciences Research Laboratory



Faculty Development Programs attended by staff

05

Teachers training Programs attended by staff

10

Patents

05



## ❖ Department of Zoology

### 1) 2023-24:

### Photographic Glimpses of programs undertaken under DBT- Star College Scheme by Department of Zoology

**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

### Wildlife Week Celebration 2023-24

Organised by  
**Department of Zoology & Green Club**

Financial Assistance  
**DBT Star College Scheme**

<b>Competitions</b>	<b>Awareness Rally</b>
Rangoli- 03/10/2023 Essay Writing- 03/10/2023 Painting- 03/10/2023 Poster- 05/10/2023	Date- 05/10/2023 Time- 9.00 am Start Point- College End Point- Gandhi Chowk Inauguration by Prins. Dr. S. A. Manjare

<b>Guest Lecture</b>	<b>Venue</b>
Chief Guest- Mr. Raman Kulkarni Honorary Wildlife Warden, Kolhapur Chairperson- Prof. M. V. Kale	Conference Hall Date & Time 05/10/2023, 11.00am

Organizing Committee

Dr. V. B. Devkar Convener	Dr. S. D. Umdale Convener	Dr. S. R. Patil Coordinator
Members		
Miss S. T. Patel Dr. J. J. Kulkarni	Miss A. B. Dhandale Dr. A. S. Lokhande	

Dr. S. R. Sabale DBT-Star College Coordinator	Dr. T. G. Ghatage IQAC Coordinator
Dr. M. V. Kale Vice-Principal	Dr. S. A. Manjare Principal

## 2) 2024-25:

### Visit to National Research Institutes/Laboratories

### College for School Program: Wildlife Photography, Poster and Painting Exhibition

Organized by Department of Zoology, Jayasingpur College, Jayasingpur

In Association with Atankant English Medium School

Supported by DPT Star College Scheme

#### Celebration of World Wildlife Week

inauguration of Wildlife Photography, Painting and Poster Exhibition

By Dr. Vipin Khadre and Dr. Pallavi Ananje

Date: 07/10/2024  
Time: 10:30 am

Atankant English Medium School

Organizing Committee:  
 Mrs. Priya Gunde (Principal), Atankant English Medium School  
 Mrs. Vidya Akhade (Assistant Coordinator), Atankant English Medium School  
 Dr. S. S. Paul (Head), Department of Zoology  
 Dr. S. B. Sahale (Coordinator), DPT Star College  
 Dr. M. S. Rale (Star President), Atankant English Medium School

### Invited talk on the "Bio-processing in vaccine manufacturing"

### Uncover Secrets of Butterfly World

#### Celebration of Big Butterfly Month

2024-25

Uncover Secrets of Butterfly World

Organized by Department of Zoology, Jayasingpur College, Jayasingpur

In Association with Atankant English Medium School, Jayasingpur

Supported by DPT Star College Scheme

Resource Person: Dr. Vipin Khadre, Dr. Pallavi Ananje

### Participation in National/ international Conferences

### Basic Microbiological Techniques Workshop

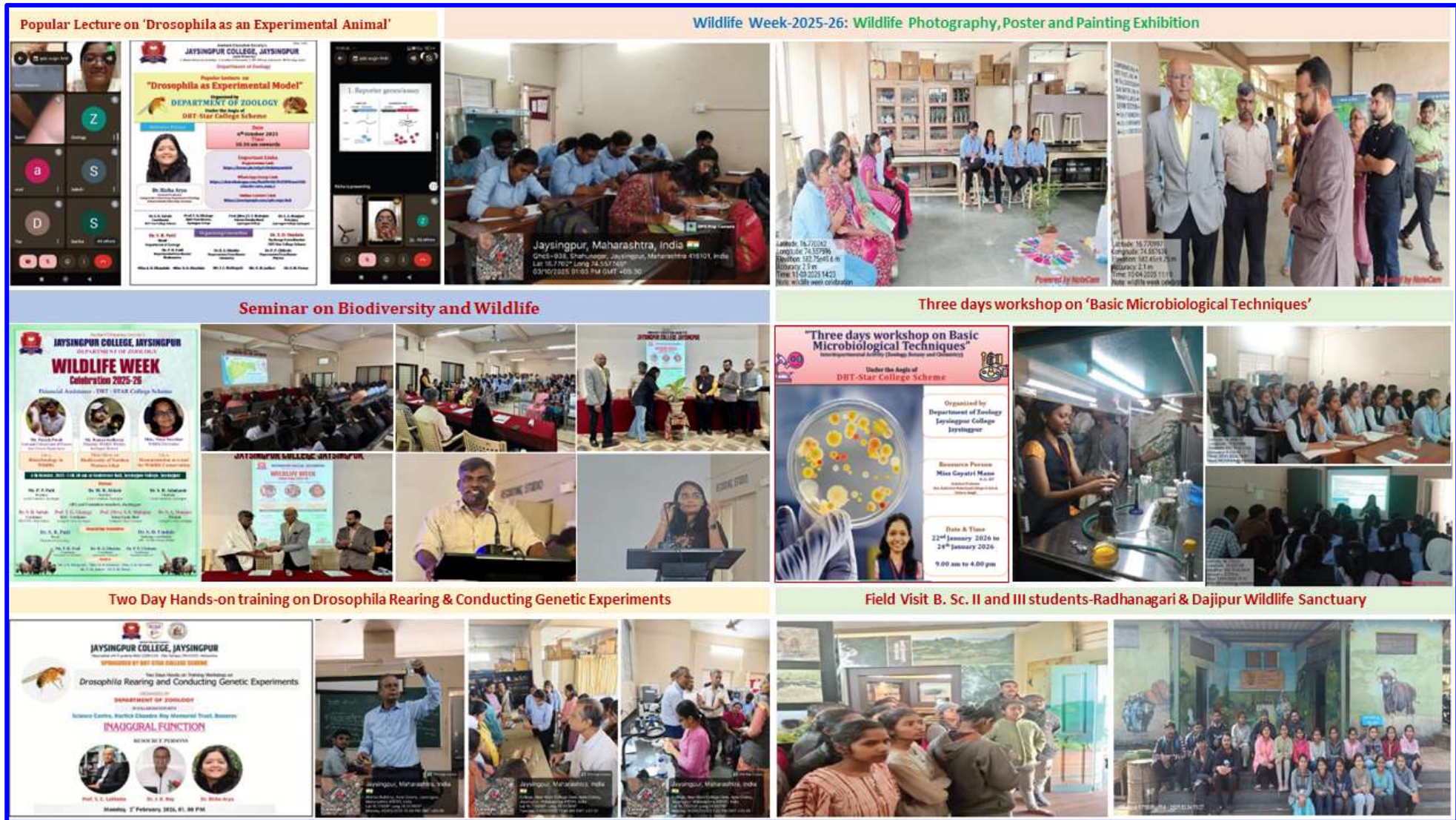
### Two Day Workshop on NET/SET/GATE Guidance

### Workshop on Sericulture

2024-25

### Wildlife Week Celebration : Painting, Photography, Rangoli & Poster Competition

### 3) 2025-26:



# ❖ DEPARTMENT OF BOTANY

## 1) 2023-24



Inauguration of Celebration of International Year of Millets (IYOM) 2023 & World Food day

Inauguration of Millet Recipes competition by Chief guest Dr. S. N. Pathan & Mr. Raju Shetti



Visit to Research Laboratory-Oasis Bio-control Lab., Shirol (B. Sc. III)

Grafting training at Datta Nursery Shirol



Visit to Tissue Culture Laboratory, Janani Tissue Culture Laboratory, Pimpalgaon (B.Sc.III)



Visit to Agharkar Research Institute (ARI), Pune Vasantadada Sugar Institute (VSI), Krushik 2024: Krushi Vigyan Kendra, Baramati

Hand-on Training on Bonsai Techniques and Bonsai Exhibition

## 2) 2024-25



**ONE DAY WORKSHOP AND EXHIBITION OF MEDICINAL PLANTS (19.08.2025)**



अनेकाल एज्युकेशन सोसायटी  
**जयशिंगपूर कॉलेज, जयशिंगपूर**  
 कनिष्ठ  
**गार्डन्स क्लब कोल्हापूर**  
 सोसायटी विकासाचे उद्देशाने

**पूजा द्राप्यांची... पर्यावरण रक्षणाची...**

(कार्यशाळा व २२ परीचे प्रदर्शन)  
 मंगळवार, दि. १९ ऑगस्ट, २०२५ रोजी स. १०.०० ते दु. १.००

२१ परीची ओळख, माहिती व उपयोग  
 डॉ. मधुकर बाबुराव.

परी व फुलांपासून सजावट  
 सी. कल्पना सावंत.

परी पासून आरोग्यदायी ज्यूस बनवणे व त्याचे फायदे  
 शिवा देसायने.

फाणे व फुलांपासून विविध प्रकारचे हार, तोरणाचे प्रात्यक्षिक  
 संगीता साबरीकर.

परी (निर्मात्य) पासून खत निर्मिती  
 सुप्रिया अहले.

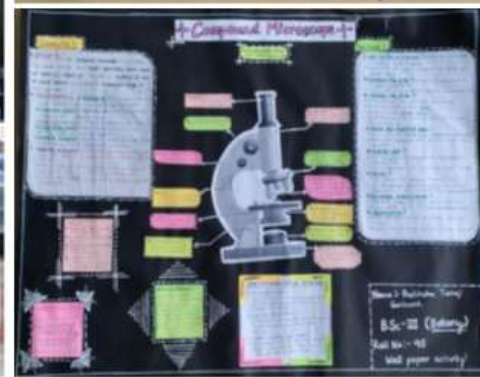
डॉ. सी. एस. एस. महाजन  
 विज्ञान विभागाचा प्रमुख

डॉ. सी. एस. व्ही. काळे  
 प्रमुख, कार्यालयीय विभाग

डॉ. एस. ए. पांजे  
 प्राचार्य



**WALL-PAPER COMPETITION (26.08.2025)**



**Tissue Culture**

**INTRODUCTION**

- Tissue culture is a form of asexual propagation of plants under laboratory conditions.
- Plant tissue culture is a technique with which plant cells, tissues and organs are multiplied in nutrient medium under sterile aseptic conditions.
- It is a technique to study and to work out the growth and development of various organs and tissues in plants.

**PRINCIPLES**

- It is a technique to study the ability of single cells to regenerate into a whole plant.
- Cell totipotency & capacity of growth & differentiation to adapt to change with function.
- Plant tissue culture is to prevent infection to the culture.
- Cultures are maintained with sufficient nutrients, light, temperature & humidity.
- Plant growth regulators: auxin and cytokinin are essential for development.

**APPLICATIONS**

- Plant propagation (especially large-scale).
- Production of pure plant products.
- Genetic conservation & breeding, including gene banks.
- Genetic engineering & transgenic plants for the betterment of production from different plants to create new ones.
- Genetically modified plants.

Some examples of plant tissue culture:

- Seed culture
- Organic tissue culture
- Whole plant culture
- Callus culture
- Types of plant tissue culture
- Embryo culture
- Protoplast culture
- Leafy shoot culture
- Root culture
- Stem culture
- Leaf culture

Class: B.Sc. - III (Botany)  
 Roll No: - 95  
 Wall paper activity

**FIELD VISIT OF B. SC. I STUDENTS (21.09.2025)**



**FLORAL PAGEANT- FLOWER DECORATION ACTIVITY" (08.10.2025)**

**JAYSINGPUR COLLEGE JAYSINGPUR**  
 DEPARTMENT OF BOTANY  
**Floral Pageant- Flower Decoration Activity"**  
 Under the aegis of  
**DBT-STAR COLLEGE SCHEME**

**DATE** 08<sup>th</sup> October, 2025  
**TIME** 11:00 am to 1:00pm

**VENUE**  
 DEPARTMENT OF BOTANY

**Organizing Committee**

**Dr. V. R. Dhanade**  
 Program Coordinator

**Dr. S. S. Sathode**  
 Coordinator

**Prof. (Dr.) M. V. Kulkarni**  
 Head

**Dr. S. S. Sathode**  
 Department of Botany

**Dr. S. S. Sathode**  
 Department of Botany

**Dr. S. S. Sathode**  
 Department of Botany



**ONE DAY HANDS-ON TRAINING ON "PREPARATION OF HERBAL MEDICINAL PRODUCTS" (30.09.2025)**

**JAYSINGPUR COLLEGE JAYSINGPUR**  
 DEPARTMENT OF BOTANY

**One day Hands-on training on "Preparation of Herbal Medicinal Products"**  
 Under the aegis of  
**DBT-STAR COLLEGE SCHEME**

**Resource Persons**

**Dr. Parag Tomake**  
 Coordinator, Laboratory  
 Department of Botany

**Dr. Ranjeet Patil**  
 Professor, Department of Botany

**Organizing Committee**

**Dr. Chetan Chitambar**  
**Ms. Shiveta Maghane**  
**Dr. Varsha Dhanade**  
**Dr. Prerona Karanikar**  
**Dr. Rajesh Chitambar**

**DATE** 30<sup>th</sup> September, 2025  
**TIME** 10:00 am Onwards

**Botany Laboratory**  
 Jaysingpur College Jaysingpur

**Dr. Suraj Dhanade**  
 Department Coordinator  
 DBT Star College Scheme

**Dr. Sandip Subade**  
 Coordinator  
 DBT Star College Scheme

**Prof. Manisha Kale**  
 Head,  
 Department of Botany

**Dr. Sarat Manjare**  
 Principal,  
 Jaysingpur College Jaysingpur



**JAYSINGPUR COLLEGE JAYSINGPUR**  
 DEPARTMENT OF BOTANY

**One day Hands-on training on "Preparation of Herbal Medicinal Products"**  
 Under the aegis of  
**DBT-STAR COLLEGE SCHEME**

**CERTIFICATE**

This is to certify that Mr./Miss \_\_\_\_\_  
 of \_\_\_\_\_ has participated in "One day hands-on training on Preparation of Herbal Medicinal Products" organized by Department of Botany, Jaysingpur College Jaysingpur held on 30<sup>th</sup> September, 2025.

**Dr. S. S. Sathode**  
 Program Coordinator  
 DBT Star College Scheme

**Dr. S. S. Sathode**  
 Head (DBT-STAR) College  
 DBT Star College Scheme

**Dr. S. S. Sathode**  
 Head  
 Department of Botany  
 Jaysingpur College Jaysingpur



# ❖ DEPARTMENT OF CHEMISTRY

## 1) 2023-24

Popular Lecture Series and Wallpaper Presentation Guest Lecture by Dr. R. R. Kumbhar sir (26.08.2023)	Onsight visit to Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd., and Alcohol Distillery Shirol (27.12.2023)	Onsight visit to JSW Steel Ltd. Jindal steel (18.01.2023)
 <p>Jaysingpur, Maharashtra, India QHC5+938, Shahunagar, Jaysingpur, Maharashtra 416101, India Lat 16.770727° Long 74.557708° 26/08/23 12:26 PM GMT +05:30</p>	 <p>Jaysingpur, Maharashtra, India QHC5+938, Shahunagar, Jaysingpur, Maharashtra 416101, India Lat 16.770727° Long 74.557708° 26/08/23 12:26 PM GMT +05:30</p>	 <p>Jaysingpur, Maharashtra, India QHC5+938, Shahunagar, Jaysingpur, Maharashtra 416101, India Lat 16.770727° Long 74.557708° 26/08/23 12:26 PM GMT +05:30</p>
 <p>Jaysingpur, Maharashtra, India QHC5+938, Shahunagar, Jaysingpur, Maharashtra 416101, India Lat 16.770727° Long 74.557708° 26/08/23 12:30 PM GMT +05:30</p>	 <p>Jaysingpur, Maharashtra, India QHC5+938, Shahunagar, Jaysingpur, Maharashtra 416101, India Lat 16.770727° Long 74.557708° 26/08/23 12:58 PM GMT +05:30</p>	 <p>Badami, Karnataka, India WJDM+G8C, Badami Durga, Badami, Karnataka 587201, India Lat 15.916477° Long 75.694176° 18/01/24 12:22 PM GMT +05:30</p>



**One day workshop on "hands-on accidental measure & fire safety: equipment and techniques"**

**Anekan Education Society's Jaysingpur College, Jaysingpur**  
 one day workshop on  
**"Hands-On Accidental Measure & Fire Safety: Equipment and Techniques"**  
 Jointly Organized by  
 Ush Sahasrabudhe Management Centre, KOS, Ushrai University, Kolhapur  
 District's Disaster Management Cell, Collector Office Sangli, Department of  
 Chemistry IQAC & NIS, Jaysingpur College  
 Under the Aegis  
 DBT-Star College Scheme  
 Venue: Library Hall, Monday 24th July, 2025 @ 10:00 am

**CHIEF GUEST AND RESOURCE PERSONS**  
**Mr. Dinkar Kamble**  
 Jyotibhau Kolhapur  
**Mr. Satyajit Desai**  
 Collector UIC  
**Mr. Yogesh Agrawal**  
 Maharashtra Fire Service, Kolhapur

**First-aid, Fire accident Hands on training NDRF Team, Jaysingpur**

Dr. N. V. Kale  
 Vice Principal  
 Jaysingpur College  
 Organizing Committee  
 Dr. S. S. Dhabbe  
 Convener  
 Dr. G. H. Nikam  
 Mr. R. B. Kumbhar

Dr. B. M. Sargar  
 HOD, Chemistry  
 Principal  
 Jaysingpur College  
 Dr. S. A. Manjare  
 HOD, Chemistry  
 DBT Star Coordinator  
 Dr. S. B. Patil  
 Dr. P. P. Chikode  
 Mr. P. R. Patil  
 Mr. R. B. Kumbhar

**One day webinar on Role of Chemists in the Pharmaceutical Industry & Job Opportunities**

**Anekan Education Society's Jaysingpur College, Jaysingpur**  
 One day Webinar  
**"ROLE OF CHEMIST IN PHARMACEUTICAL INDUSTRY & JOB OPPORTUNITIES"**  
 Organized by  
 Department of Chemistry  
 Jaysingpur College  
 Under the Aegis  
 DBT-Star College Scheme  
 Sunday, 31<sup>st</sup> August 2025 @ 2:00 pm

**RESOURCE PERSON**  
**Mr. Amitesh P. Drony**  
 Scientist, Tata Laxmi, APOD, B&D center  
 Mahesh Pharmaceuticals Ltd, Nashik.

Prof. Dr. B. M. Sargar  
 HOD, Chemistry  
 Organizing Committee  
 Dr. S. S. Dhabbe  
 Convener  
 Dr. S. B. Patil  
 Dr. P. P. Chikode  
 Dr. T. J. Manjarekar  
 Dr. S. S. Dhabbe  
 Dr. G. H. Nikam  
 Dr. P. P. Patil  
 Mr. R. B. Kumbhar  
 Mr. S. B. Patil  
 Mr. R. B. Kumbhar

Dr. S. A. Manjare  
 Principal  
 Jaysingpur College  
 Dr. N. V. Kale  
 HOD, Botany  
 Dr. S. D. Usdale  
 HOD, English  
 Dr. S. B. Patil  
 Mr. R. B. Kumbhar

Glimpses during One day webinar on Role of Chemists in the Pharmaceutical Industry & Job Opportunities

**ONE DAY WORKSHOP ON "P.A.S.S. to Safety: Fire Extinguisher Hands-on Training"**

**Anekan Education Society's Jaysingpur College, Jaysingpur**  
 one day workshop on  
**"P.A.S.S. to Safety: Fire Extinguisher Hands-on Training"**  
 Organized by  
 Department of Chemistry  
 Jaysingpur College  
 Under the Aegis  
 DBT-Star College Scheme  
 Venue: Chemistry Laboratory, Thursday, 12<sup>th</sup> September, 2025  
 Time: 11:00 am

**CHIEF GUEST**  
**Dr. M. R. Akkole**  
 Secretary  
 Local committee  
 Jaysingpur College, Jaysingpur

**AIM**  
 At the end of the day  
 you will be able to  
**Squeeze**  
 the handle  
**Pull**  
 the top  
**Aim**  
 at the base of the fire  
**Sweep**  
 the fire

Dr. S. S. Dhabbe  
 DBT Star Coordinator  
 Dr. S. B. Patil  
 Mr. R. B. Kumbhar

Dr. B. M. Sargar  
 HOD, Chemistry  
 Organizing Committee  
 Dr. S. A. Manjare  
 Principal  
 Jaysingpur College  
 Dr. S. R. Sabale  
 HOD, English  
 Dr. S. D. Usdale  
 HOD, English  
 Dr. P. P. Chikode  
 Mr. P. R. Patil  
 Dr. G. H. Nikam  
 Mr. R. B. Kumbhar

Glimpses during One day workshop on "P.A.S.S. to Safety: Fire Extinguisher Hands-on Training"

**Wallpaper and Poster Presentation Prevent, Protect, Prevail: Understanding Fire Classes, Extinguishers, and GHS Symbols**

**Anekan Education Society's Jaysingpur College, Jaysingpur**  
 Wallpaper and Poster Presentation  
**Prevent, Protect, Prevail: Understanding Fire Classes, Extinguishers, and GHS Symbols**  
 Organized by  
 Department of Chemistry  
 Jaysingpur College  
 Under the Aegis  
 DBT-Star College Scheme  
 Venue: Chemistry Laboratory, Thursday, 25<sup>th</sup> September, 2025  
 Time: 11:00 am

**CHIEF GUEST**  
**Dr. S. A. Manjare**  
 Principal  
 Jaysingpur College, Jaysingpur

Dr. S. S. Dhabbe  
 DBT Star Coordinator  
 Dr. S. B. Patil  
 Mr. R. B. Kumbhar

Dr. S. S. Dhabbe  
 Convener  
 Dr. P. P. Chikode  
 Mr. P. R. Patil  
 Dr. G. H. Nikam  
 Mr. R. B. Kumbhar

Glimpses during Wallpaper and Poster Presentation Prevent, Protect, Prevail: Understanding Fire Classes, Extinguishers and GHS Symbols

**Hands-on Training On 'Spectroscopic And Separation Techniques'**

**Anekan Education Society's Jaysingpur College, Jaysingpur**  
 Hands on Training On  
**Spectroscopic and Separation Techniques under DBT-Star College scheme**  
 Organized by  
 Department of Chemistry,  
 Jaysingpur College, Jaysingpur  
 Tuesday 23<sup>rd</sup> December 2025 @ 10:30 am Venue: DST Lab

Mrs. M. H. Menis  
 Mrs. A. R. Kanthe  
 Mrs. N. S. Mujawar  
 Mrs. A. R. Kanthe

Departmental Members  
 Dr. S. R. Sabale  
 DBT STAR Coordinator  
 Mr. R. D. Tagankar  
 Mr. K. R. Kumbhar  
 Prof. (Dr.) B. M. Sargar  
 HOD Dept. of Chemistry  
 Dr. R. S. Dhabbe  
 Dept. Coordinator  
 Dr. S. A. Manjare  
 Principal  
 Dr. G. H. Nikam  
 DBT-STAR College Members  
 Dr. S. R. Patil  
 Dr. P. P. Chikode  
 Dr. S. D. Usdale  
 Mr. P. R. Patil

**Workshop On Personality Development And Interview Skills**

**Anekan Education Society's Jaysingpur College, Jaysingpur**  
 One Day Workshop on  
**Personality Development and Interview Skills 2025-26**  
 Under  
 DBT-STAR College scheme  
 Organized by  
 Department of Chemistry,  
 Jaysingpur College, Jaysingpur  
 Friday 26<sup>th</sup> December 2025 @ 10:00 am Venue: Conference Hall

**RESOURCE PERSON**  
**Prof. (Dr.) Vijaymala V. Chougule**  
 HOD, Department of Psychology,  
 Jaysingpur College, Jaysingpur

Departmental Members  
 Dr. S. R. Sabale  
 DBT STAR Coordinator  
 Mr. R. D. Tagankar  
 Mr. K. R. Kumbhar  
 Prof. (Dr.) B. M. Sargar  
 HOD Dept. of Chemistry  
 Dr. R. S. Dhabbe  
 Dept. Coordinator  
 Dr. S. A. Manjare  
 Principal  
 Dr. G. H. Nikam  
 DBT-STAR College Members  
 Dr. S. R. Patil  
 Dr. P. P. Chikode  
 Dr. S. D. Usdale  
 Mr. P. R. Patil

### Report On Webinar On AI Digital Transformation For Academic Research Perspective

Amkant Education Society's  
**Jaysingpur College, Jaysingpur**

Webinar on  
**AI Digital Transformation for Academic Research Perspective**  
Under  
DIT-STAR College Scheme  
Organized by  
Department of Chemistry

Saturday, 27<sup>th</sup> December 2025 @ 10:00 am

RESOURCE PERSON  
**Dr. RUPALI SHINDE**  
AI TEAM LEADER, IITKCH AI SECTOR, SOUTH KOREA

Organizing Committee  
Dr. S. A. Bhaskar, Prof. Dr. B. M. Sagar, Dr. S. R. Saha, Dr. S. A. Marcar  
Coordinator Head of Department Coordinator Principal  
Dr. G. B. Nikam, Ms. G. B. Kumbhar, Dr. P. P. Chikhalo  
Dr. S. R. Patil, Dr. S. D. Dandale, Ms. P. R. Patil  
Dr. S. J. Manekar, Dr. A. A. Kulk, Dr. V. K. Pathan, Ms. S. S. Patil



### Report On Navigating Career Options With A Science Degree-domestic And International Opportunities

Amkant Education Society's  
**Jaysingpur College, Jaysingpur**

Invited Talk on  
**Navigating Career Options with a Science Degree-Domestic and International Opportunities**  
Under  
DIT-STAR College Scheme  
Organized by  
Department of Chemistry

Saturday, 12<sup>th</sup> January 2026 @ 10:00 am

RESOURCE PERSON  
**Dr. BABASAHEB SANKAPAL**  
Professor and Head  
Department of Physics  
Sriharsha National Institute of Technology (SNTI) Nagpur

Organizing Committee  
Dr. S. S. Bhaskar, Prof. Dr. B. M. Sagar, Dr. S. R. Saha, Dr. S. A. Marcar  
Coordinator Head of Department Coordinator Principal  
Dr. G. B. Nikam, Ms. G. B. Kumbhar, Dr. P. P. Chikhalo  
Dr. S. R. Patil, Dr. S. D. Dandale, Ms. P. R. Patil  
Dr. S. J. Manekar, Dr. A. A. Kulk, Dr. V. K. Pathan, Ms. S. S. Patil



### One Day Workshop on Artificial Intelligence: Challenges and Opportunities

SHIVAJI UNIVERSITY, KOLHAPUR  
AMKANT EDUCATION SOCIETY'S  
**JAYSINGPUR COLLEGE, JAYSINGPUR**

Organized by  
**ONE DAY WORKSHOP**  
ON  
**ARTIFICIAL INTELLIGENCE: CHALLENGES AND OPPORTUNITIES**  
Under  
LEAD and DIT-STAR College Scheme

RESOURCE PERSON  
**Dr. Kavita S. Oza**  
Associate Professor and Head, Department of Computer Science  
Sri Jay Institute of Science, Kolhapur

**Dr. Amit J. Chinchwad**  
Associate Professor and Head,  
Department of Artificial Intelligence and Data Science  
Marath Institute of Technology  
College of Engineering, Vadgaon

Organizing Committee  
Dr. S. A. Bhaskar, Prof. Dr. B. M. Sagar, Dr. S. R. Saha, Dr. S. A. Marcar  
Coordinator Head of Department Coordinator Principal  
Dr. G. B. Nikam, Ms. G. B. Kumbhar, Dr. P. P. Chikhalo  
Dr. S. R. Patil, Dr. S. D. Dandale, Ms. P. R. Patil  
Dr. S. J. Manekar, Dr. A. A. Kulk, Dr. V. K. Pathan, Ms. S. S. Patil



### Industrial Visit To Kapila Polymers & M.N. Chemicals



### Wallpaper and Poster Presentation Activity

Amkant Education Society's  
**Jaysingpur College, Jaysingpur**

Department of Chemistry  
Organized by  
Department of Chemistry  
**Jaysingpur College**  
Under the Aegis  
DIT-STAR College Scheme

Year- Chemistry Laboratory, Thursday, 28<sup>th</sup> Feb, 2024  
Time- 11:00 am

CHIEF GUEST  
**Prof. Jyotirakash B. Yadav**  
Head & In-charge Officer, IIT (Kangri University, Solapur)

Organizing Committee  
Dr. S. S. Bhaskar, Prof. Dr. B. M. Sagar, Dr. S. R. Saha, Dr. S. A. Marcar  
Coordinator Head of Department Coordinator Principal  
Dr. G. B. Nikam, Ms. G. B. Kumbhar, Dr. P. P. Chikhalo  
Dr. S. R. Patil, Dr. S. D. Dandale, Ms. P. R. Patil  
Dr. S. J. Manekar, Dr. A. A. Kulk, Dr. V. K. Pathan, Ms. S. S. Patil



### Industrial Visit To Swabhimanni Milk Industry



# ❖ DEPARTMENT OF MATHEMATICS & STATISTICS

1) 2023-24

<h3>Wallpaper Presentation</h3>  <p>Jaysingpur, Maharashtra, India QHC5+938, Shahu Nagar, Jaysingpur, Maharashtra 416101, India Lat 16.770553° Long 74.557932° 10/11/23 01:20 PM GMT +05:30</p>	<h3>National Mathematics Day</h3>  <p>Jaysingpur, Maharashtra, India QHC5+938, Shahu Nagar, Jaysingpur, Maharashtra 416101, India Lat 16.770553° Long 74.557932° 10/11/23 02:54 PM GMT +05:30</p>			
<h3>Poster Competition</h3>  <p>Jaysingpur, Maharashtra, India QHC5+938, Shahu Nagar, Jaysingpur, Maharashtra 416101, India Lat 16.770553° Long 74.557932° 10/11/23 11:58 AM GMT +05:30</p>	<h3>Quiz Competition</h3>  <p>Jaysingpur, Maharashtra, India QHC5+938, Shahu Nagar, Jaysingpur, Maharashtra 416101, India Lat 16.770553° Long 74.557932° 10/11/23 04:14 PM GMT +05:30</p>			
<h3>Study Tour to IIT Dharwad</h3>  <p>Note cam lite Address : Dharwad,Karnataka,India Latitude : 15.487801666666667° Longitude : 74.93332833333333° Altitude : 733.0 meter Date : 01/23/2024 03:31 pm Accuracy : 1.2 meter Time zone : IST Note : Study Tour 8.50.18.2023-24</p>	<table border="0"> <tr> <td data-bbox="1126 1026 1429 1406"> <h4>Jaysingpur College, Jaysingpur</h4> <p>Three days Workshop on Hands-On Training of Python</p> <p>RESOURCES PERSON: <b>Mr. Mehul Jadhav,</b> Assistant Professor, Department of Mathematics, New College, Solapur</p> </td> <td data-bbox="1444 1026 1747 1406"> <h4>Jaysingpur College, Jaysingpur</h4> <p>Guest Lecture on Abstract Algebra</p> <p>RESOURCES PERSON: <b>Dr. M. T. Goghane,</b> Associate Professor, Department of Mathematics, Shri Jagd University, Solapur</p> </td> <td data-bbox="1762 1026 2087 1406"> <h4>Jaysingpur College, Jaysingpur</h4> <p>Guest Lecture on Career in Mathematics</p> <p>RESOURCES PERSON: <b>Dr. Kishor D. Kacche,</b> Associate Professor, Department of Mathematics, Shri Jagd University, Solapur</p> </td> </tr> </table>	<h4>Jaysingpur College, Jaysingpur</h4> <p>Three days Workshop on Hands-On Training of Python</p> <p>RESOURCES PERSON: <b>Mr. Mehul Jadhav,</b> Assistant Professor, Department of Mathematics, New College, Solapur</p>	<h4>Jaysingpur College, Jaysingpur</h4> <p>Guest Lecture on Abstract Algebra</p> <p>RESOURCES PERSON: <b>Dr. M. T. Goghane,</b> Associate Professor, Department of Mathematics, Shri Jagd University, Solapur</p>	<h4>Jaysingpur College, Jaysingpur</h4> <p>Guest Lecture on Career in Mathematics</p> <p>RESOURCES PERSON: <b>Dr. Kishor D. Kacche,</b> Associate Professor, Department of Mathematics, Shri Jagd University, Solapur</p>
<h4>Jaysingpur College, Jaysingpur</h4> <p>Three days Workshop on Hands-On Training of Python</p> <p>RESOURCES PERSON: <b>Mr. Mehul Jadhav,</b> Assistant Professor, Department of Mathematics, New College, Solapur</p>	<h4>Jaysingpur College, Jaysingpur</h4> <p>Guest Lecture on Abstract Algebra</p> <p>RESOURCES PERSON: <b>Dr. M. T. Goghane,</b> Associate Professor, Department of Mathematics, Shri Jagd University, Solapur</p>	<h4>Jaysingpur College, Jaysingpur</h4> <p>Guest Lecture on Career in Mathematics</p> <p>RESOURCES PERSON: <b>Dr. Kishor D. Kacche,</b> Associate Professor, Department of Mathematics, Shri Jagd University, Solapur</p>		

## 2) 2024-25

### Participation in State level Ramanujan Quiz and Poster Presentation, and Secured 1<sup>st</sup> rank in Quiz competition



### Day Workshop on "Career opportunities for Mathematician in Finance"



### One Day Workshop on "Mathematical Software's"



### Three Days Hands on Training Program on "Python Language"





### Celebration of National Mathematics Day



### Webinar on "Fundamentals of Algebra and Graph Theory"



Two Days Workshop On " Scilab & Python "

Anekant Education Society's  
**Jaysingpur College, Jaysingpur**  
 Department of Mathematics & Department of Physics  
 jointly Organize  
**Two days Workshop on Scilab & Python**  
 Programming  
 Under Aegis of  
 DBT STAR College Scheme

**Resource Person**  
**Dr. Shaila Shivaji Jadhav**  
 PG Coordinator  
 Belwan Chhatkard College, Belwan

Date: 12,13 September 2025 | Time: 11:00 a.m. onwards  
 Venue: Mathematics Department

**Organizing Committee**


Mr. P.R. Patil Departmental Coordinator DBT Star	Dr. P.P. Chikade Departmental Coordinator DBT Star	Dr. S.D. Tunde Head of Department DBT Star Scheme	Prof. Dr. Suresh Mahesh Head of Department DBT Star Scheme
Mr. Sanku V. B Coordinator & Head Department of Mathematics	Prof. Dr. R. J. Pawar Head Department of Physics	Dr. S.R. Joshi Coordinator DBT Star	Head, Dr. Suresh Mahesh DBT Star



Lecture On " Legacy Of Ancient Mathematical In Modern Applications "

Anekant Education Society  
**Jaysingpur College Jaysingpur**  
 Department of Mathematics &  
 Science Association  
 organize  
**Online Guest Lecture on**  
**Legacy of Ancient Mathematics in**  
**Modern Applications**  
 Assisted by DBT STAR COLLEGE SCHEME

**Resource Person**



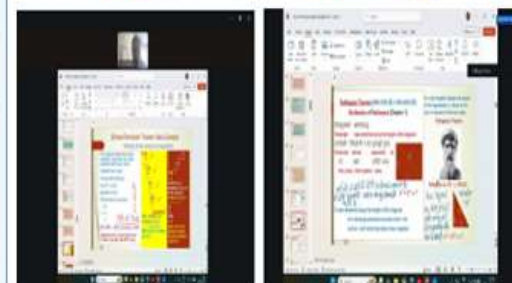
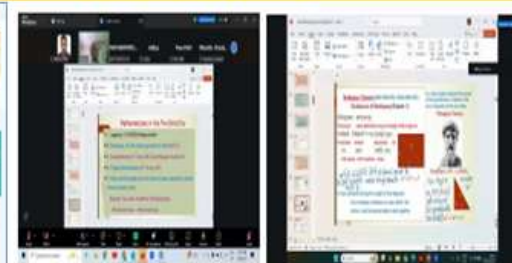
**Prof. S. A. Katre**  
 Former Head,  
 Mathematics Department,  
 Savitribai Phule Pune University.

08/10/2025 |  
 11:00 am TO 12:00  
 am | Mathematics  
 Department |

Zoom link:  
<https://us04web.zoom.us/j/76827224922?pwd=gtE2ZGp0S0x0aG4lYm9hQ0NDNCABQ6.1>

**Organizing Committee**

Dr. S.S. Mahajan Head, Science Stream	Dr. S. D. Tunde Dept. Coordinator DBT Star Scheme
Mr. P. R. Patil Coordinator & Dept. Coordinator Mathematics Dept.	Mrs. V. J. Shinde Head, Physics Dept.
Dr. P. P. Chikade Dept. Coordinator	Dr. R. D. More Head, Zoology Dept.
Dr. R. A. Joshi Dept. Coordinator	Dr. S. R. Patil Head, Zoology Dept.



Webinar On "Mathematics In Cybersecurity: Applications, Models, And Career Pathways"

Anekant Education Society's  
**Jaysingpur College, Jaysingpur**  
 Department of Mathematics & Science Association  
 organizes  
 webinar on  
**Mathematics in Cybersecurity: Applications,  
 Models, and Career Pathways**  
 Supported by  
 DBT-Star College Scheme

**Resource Person**  
**Amarjit B. Gajare**  
 Cybersecurity Administrator,  
 Starlight Data Solutions,  
 Pune.

3rd January 2026 | Time: 11:00 am | Venue: Mathematics Laboratory

**Organizing Committee**

Mr. P. R. Patil Coordinator & Dept. Coordinator DBT Star Scheme	Mrs. V. J. Shinde Head, Mathematics Dept.	Dr. S. S. Mahajan Head, DBT Star Scheme	Dr. S. S. Mahajan Head, Science Stream	Dr. S. A. Mahesh Principal
Dr. R. S. Shinde Dept. Coordinator DBT Star Scheme	Dr. S. S. Tunde Dept. Coordinator DBT Star Scheme	Dr. S. R. Patil Dept. Coordinator DBT Star Scheme	Dr. P. P. Chikade Dept. Coordinator, DBT Star Scheme	Dr. R. D. More Head, Physics Dept.



National Mathematics Day Celebration

Anekant Education Society's  
**Jaysingpur College, Jaysingpur**  
 Department of Mathematics &  
 Science Association  
 organizes  
**Celebration Of National Mathematics Day :  
 Poster & Model Presentation**  
 Under  
 DBT-Star College Scheme  
 Date: 19/01/2026 | Time: 11:00 am | Venue: Mathematics Laboratory

**Organizing Committee**

Dr. S. R. Joshi Coordinator DBT Star College	Prof. Dr. S. S. Mahajan Head, Science Stream	Dr. S. A. Mahesh Principal
Mr. P. R. Patil Coordinator Dept. of Mathematics	Mrs. V. J. Shinde Head Dept. of Mathematics	Dr. P. P. Chikade Coordinator Dept. of Mathematics
Dr. R. S. Shinde Coordinator Dept. of Chemistry	Dr. S. R. Patil Coordinator Dept. of Zoology	Dr. S. D. Tunde Coordinator Dept. of Botany



## Mathematics: The Hidden Engine in Artificial Intelligence

Anant Education Society's  
**Jaysingpur College, Jaysingpur**  
 Department of Mathematics & Science Association  
 organizes

with the  
**Mathematics: The Hidden Engine In Artificial Intelligence**

Sponsored by  
**DBT-Star College Scheme**

**Resource Person**  
**Mr. Shashank Deshpande**  
 M.Sc (Mathematics), Pune University,  
 Senior AI Software Developer,  
 Ganesh - Advancing Motion,  
 Bangalore.

12th January 2026 | Time: 10:00 am | Venue: Mathematics Laboratory

Organizing Committee:

Prof. Dr. S.S. Mahajan Head, Science Stream	Dr. S.A. Manjare Principal
Mr. V. H. Shinde Head, Mathematics Dept.	Mr. P. R. Patil Coordinator & Dept. Coordinator
Dr. S. R. Salunke Coordinator, DBT Star Scheme	Mr. S.A. Chavur Finance Officer & Office Superintendent
Dr. R. S. Dhadke	Dr. S. D. Umale
Dr. S. R. Patil	Dr. P. P. Chikode



## One Day Workshop On "Code Smarter With Github & Github Copilot"

Anant Education Society's  
**Jaysingpur College, Jaysingpur**  
 Department of Mathematics  
 One day Online Workshop on  
**"Code smarter with GitHub and GitHub Copilot"**

Under Aegis of  
**DBT Star College Scheme**

Date: 17 Jan 2026, Time 11:30 a.m onwards

**Resource Person**  
**Mr. Jitendra S. Gund**  
 Lead I-Product Architect,  
 USTPune.

**Our Patron**

Sri. Padmakar Patil Treasurer	Dr. Mahesh Akhote Secretary	Dr. Subhash Adalade Chairman
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All Local Committee members, Anant Education Society's  
**Organizing Committee**

Mr. P.R. Patil Coordinator Department DBT Star	Mr. Shinde V.H Coordinator & Head Department of Mathematics	Dr. S.R. Salunke Coordinator DBT Star College	Mr. Dr. Suresh Manjare Principal
Dr. P.P. Chikode	Dr. S. D. Umale	Dr. S.S. Dhadke	Dr. S. R. Patil

Venue: Conference Hall, Jaysingpur College, Jaysingpur



## Hands On Training On "R-Software"

Anant Education Society's  
**Jaysingpur College, Jaysingpur**  
 Department of Mathematics  
 One day Online Workshop on R software

Under Aegis of  
**DBT Star College Scheme**

Date: 21 Jan 2026, Time 11:30 a.m. onwards

**Resource Person**  
**Dr. Shaila Shivaji Jadhav**  
 PG Coordinator  
 Bajajam Charanand College, Raigarh

**Our Patron**

Sri. Padmakar Patil Treasurer	Dr. Mahesh Akhote Secretary	Dr. Subhash Adalade Chairman
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All Local Committee members, Anant Education Society's  
**Organizing Committee**

Mr. P.R. Patil Coordinator Department DBT Star	Mr. Shinde V.H Coordinator & Head Department of Mathematics	Dr. S.R. Salunke Coordinator DBT Star College	Mr. Dr. Suresh Manjare Principal
Dr. P.P. Chikode	Dr. S. D. Umale	Dr. S.S. Dhadke	Dr. S. R. Patil

Venue: Mathematics Department, Jaysingpur College, Jaysingpur



## One Day Hands On Training On Geogebra

Anant Education Society's  
**Jaysingpur College, Jaysingpur**  
 Department of Mathematics &  
 Science Association  
 organizes

**One Day Hands On Training on Geogebra**

Under  
**DBT Star College Scheme**

Date: 21/01/2026 | Time 11:00 am | Venue: Mathematics Laboratory

**Resource Person**  
**Dr. Girish D. Shelake**  
 Associate Professor,  
 Head, Mathematics Department,  
 Vice Principal, Willington College,  
 Sangli.

**Organizing Committee**

Dr. S. R. Salunke Coordinator DBT Star College	Prof. Dr. S.S. Mahajan Head Science Stream	Dr. S. A. Manjare Principal
Mr. P. R. Patil Coordinator, Dept. of Mathematics	Mr. V. H. Shinde Head, Dept. of Physics	Dr. P. P. Chikode Coordinator
Dr. R. S. Dhadke Coordinator	Dr. S. R. Patil Coordinator	Dr. S. D. Umale Coordinator



# ❖ DEPARTMENT OF PHYSICS

1) 2023-24

## Wallpaper Presentation



## Hands on Training



## Exhibition on Hiroshima & Nagasaki



## Workshop on Career Opportunities



## Study Tour to Karwar



## Abdul Kalam Jayanti Celebration



## 2) 2024-25:

Guest Lecture on Research Perspectives	Hands on Training on Instrumentation	Scientist Interaction Meet																																		
<p><b>Anekar Education Society's Jaysingpur College, Jaysingpur</b> Dept. of Physics, 2024-25 One day Seminar on "Research Perspectives : Attitude &amp; Aptitude" Under DBT-Star College Scheme Tuesday, 20<sup>th</sup> Aug, 2024 @ 11:30 am Venue: Conference Hall</p> <p><b>RESOURCE PERSON</b></p>  <p><b>Prof. Dr. Dinesh Amalnerkar</b> Former Director, C-MIT, Govt. of India. Organizing Committee</p> <table border="0"> <tr> <td>Prof. Dr. M.V. Kale Vice-Principal</td> <td>Dr. S. A. Manjare Principal</td> </tr> <tr> <td>Dr. S. R. Sahale Coordinator DBT Star College</td> <td>Dr. R. D. Menon, Head Dept. of Physics</td> </tr> <tr> <td>Dr. S.S. Mahajan Coordinator Dept. of Physics</td> <td>Dr. P.P. Chitambar Coordinator DBT Star Dept. of Physics</td> </tr> <tr> <td>Dr. S. B. Dandale</td> <td>Dr. R. S. Dhabbe</td> </tr> <tr> <td>Dr. S. R. Patil</td> <td>Mr. P.R. Patil</td> </tr> </table>	Prof. Dr. M.V. Kale Vice-Principal	Dr. S. A. Manjare Principal	Dr. S. R. Sahale Coordinator DBT Star College	Dr. R. D. Menon, Head Dept. of Physics	Dr. S.S. Mahajan Coordinator Dept. of Physics	Dr. P.P. Chitambar Coordinator DBT Star Dept. of Physics	Dr. S. B. Dandale	Dr. R. S. Dhabbe	Dr. S. R. Patil	Mr. P.R. Patil	<p><b>Anekar Education Society's Jaysingpur College, Jaysingpur</b> Department of Physics organizes "Hands on Training of Instruments" Under DBT-Star College Scheme 25 Mar, 2025 @ 11:50 am Venue: Research Lab, Dept. Of Physics</p> <p><b>RESOURCE PERSON</b></p>  <p><b>Mr. Prakash Borade,</b> Borade Embedded Solution, Kolhapur Organizing Committee</p> <table border="0"> <tr> <td>Prof. Dr. M.V. Kale Vice-Principal</td> <td>Dr. S. A. Manjare Principal</td> </tr> <tr> <td>Dr. S. R. Sahale Coordinator DBT Star College</td> <td>Prof. Dr. R. D. Menon, Head Dept. of Physics</td> </tr> <tr> <td>Dr. S.S. Mahajan</td> <td>Dr. P.P. Chitambar Coordinator Dept. of Physics</td> </tr> <tr> <td>Dr. S. B. Dandale</td> <td>Dr. S. R. Patil</td> </tr> <tr> <td>Mr. R. D. Shinde</td> <td>Dr. R. S. Dhabbe</td> </tr> <tr> <td>Mr. A.P. Masur</td> <td>Dr. R.R. Anshi</td> </tr> </table>	Prof. Dr. M.V. Kale Vice-Principal	Dr. S. A. Manjare Principal	Dr. S. R. Sahale Coordinator DBT Star College	Prof. Dr. R. D. Menon, Head Dept. of Physics	Dr. S.S. Mahajan	Dr. P.P. Chitambar Coordinator Dept. of Physics	Dr. S. B. Dandale	Dr. S. R. Patil	Mr. R. D. Shinde	Dr. R. S. Dhabbe	Mr. A.P. Masur	Dr. R.R. Anshi	<p><b>Anekar Education Society's Jaysingpur College, Jaysingpur</b> Department of Physics organizes "Scientist Interaction Meet" Under DBT-Star College Scheme 17 Feb, 2025 @ 1:00 pm Venue: Conference Hall</p> <p><b>RESOURCE PERSON</b></p>  <p><b>Prof. Michel</b> University of Chemistry and Technology, Prague Organizing Committee</p> <table border="0"> <tr> <td>Prof. Dr. M.V. Kale Vice-Principal</td> <td>Dr. S. A. Manjare Principal</td> </tr> <tr> <td>Dr. S. R. Sahale Coordinator DBT Star College</td> <td>Prof. Dr. R. D. Menon, Head Dept. of Physics</td> </tr> <tr> <td>Dr. S.S. Mahajan</td> <td>Dr. P.P. Chitambar Coordinator DBT Star Dept. of Physics</td> </tr> <tr> <td>Dr. S. B. Dandale</td> <td>Dr. S. R. Patil</td> </tr> <tr> <td>Mr. R. D. Shinde</td> <td>Dr. R. S. Dhabbe</td> </tr> <tr> <td>Mr. A.P. Masur</td> <td>Dr. R.R. Anshi</td> </tr> </table>	Prof. Dr. M.V. Kale Vice-Principal	Dr. S. A. Manjare Principal	Dr. S. R. Sahale Coordinator DBT Star College	Prof. Dr. R. D. Menon, Head Dept. of Physics	Dr. S.S. Mahajan	Dr. P.P. Chitambar Coordinator DBT Star Dept. of Physics	Dr. S. B. Dandale	Dr. S. R. Patil	Mr. R. D. Shinde	Dr. R. S. Dhabbe	Mr. A.P. Masur	Dr. R.R. Anshi
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Mr. A.P. Masur	Dr. R.R. Anshi																																			
<h3>Guest Lecture on Astronomy and Astrophysics</h3>	<h3>Workshop on "Experimental Physics"</h3>	<h3>Visit to research Laboratories</h3>																																		
<p><b>Anekar Education Society's Jaysingpur College, Jaysingpur</b> Dept. of Physics, 2023-24 Popular Lecture on "Astronomy and Astrophysics" Under DBT-Star College Scheme 30/1/2024 @ 11:30 am Venue: Department of Physics</p> <p><b>RESOURCE PERSON</b></p>  <p><b>Dr. Rajiv Vhatkar</b> Director, Parabha space Research centre and Associate professor, Shriaji University, Kolhapur Organizing Committee</p> <table border="0"> <tr> <td>Prof. Dr. M.V. Kale Vice-Principal</td> <td>Dr. S. A. Manjare Principal</td> </tr> <tr> <td>Dr. S. R. Sahale Coordinator DBT Star College</td> <td>Dr. R. D. Menon, Head Dept. of Physics</td> </tr> <tr> <td>Dr. S.S. Mahajan Coordinator Dept. of Physics</td> <td>Dr. P.P. Chitambar Coordinator DBT Star Dept. of Physics</td> </tr> <tr> <td>Dr. S. B. Dandale</td> <td>Dr. R. S. Dhabbe</td> </tr> <tr> <td>Dr. S. R. Patil</td> <td>Mr. P.R. Patil</td> </tr> </table>	Prof. Dr. M.V. Kale Vice-Principal	Dr. S. A. Manjare Principal	Dr. S. R. Sahale Coordinator DBT Star College	Dr. R. D. Menon, Head Dept. of Physics	Dr. S.S. Mahajan Coordinator Dept. of Physics	Dr. P.P. Chitambar Coordinator DBT Star Dept. of Physics	Dr. S. B. Dandale	Dr. R. S. Dhabbe	Dr. S. R. Patil	Mr. P.R. Patil	<p><b>Anekar Education Society's Jaysingpur College, Jaysingpur</b> DEPARTMENT OF PHYSICS One day Workshop on "Experimental Physics" Under DBT-Star College Scheme 4 Feb, 2025 @ 11:00 am Venue: Conference Hall</p> <p><b>RESOURCE PERSON</b></p>  <p><b>Prof. Dr. Shivnand Masti</b> Director, Anveshika Centre, a Project by IIT, Kanpur Dr. Ghazi College, Gadchigalaj Organizing Committee</p> <table border="0"> <tr> <td>Prof. Dr. M.V. Kale Vice-Principal</td> <td>Dr. S. A. Manjare Principal</td> </tr> <tr> <td>Dr. S. R. Sahale Coordinator DBT Star College</td> <td>Prof. Dr. R. D. Menon, Head Dept. of Physics</td> </tr> <tr> <td>Dr. S.S. Mahajan</td> <td>Dr. P.P. Chitambar Coordinator Dept. of Physics</td> </tr> <tr> <td>Dr. S. B. Dandale</td> <td>Dr. S. R. Patil</td> </tr> <tr> <td>Mr. R. D. Shinde</td> <td>Dr. R. S. Dhabbe</td> </tr> <tr> <td>Mr. A.P. Masur</td> <td>Dr. R.R. Anshi</td> </tr> </table>	Prof. Dr. M.V. Kale Vice-Principal	Dr. S. A. Manjare Principal	Dr. S. R. Sahale Coordinator DBT Star College	Prof. Dr. R. D. Menon, Head Dept. of Physics	Dr. S.S. Mahajan	Dr. P.P. Chitambar Coordinator Dept. of Physics	Dr. S. B. Dandale	Dr. S. R. Patil	Mr. R. D. Shinde	Dr. R. S. Dhabbe	Mr. A.P. Masur	Dr. R.R. Anshi													
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Mr. R. D. Shinde	Dr. R. S. Dhabbe																																			
Mr. A.P. Masur	Dr. R.R. Anshi																																			

### 3) 2025-26:

#### Popular Guest Lecture on "Indians into Space"

  
**POPULAR GUEST LECTURE ON : INDIANS IN TO SPACE**  
 Under  
 DBT-STAR College Scheme  
  
**Prof. Rajmal Jain**  
 Research Scientist, Astronomy and Astrophysics, PRL, Ahmedabad  
 Fellow, Royal Society of Astronomy and Astrophysics, UK.  
 Organizing Committee:  
 Prof. Dr. S. S. Mahajan (Head, Dept. of Physics), Dr. S. S. Mahajan (Coordinator, DBT Star College), Prof. Dr. B. H. Sangeer (Dept. of Chemistry), Dr. S. D. Deshpande (Dept. of Physics), Dr. S. S. Patil (Dept. of Physics), Dr. S. R. Shinde (Dept. of Physics), Dr. S. R. Kulkarni (Dept. of Physics), Dr. C. H. Nikam (Dept. of Physics), Dr. B. D. Shinde (Dept. of Physics), Mr. V. H. Shinde (Dept. of Physics)



#### Wallpaper Exhibition Activity



#### Study Tour- UG Physics Students



#### "Hands-on Training Workshop in Solid-State Lighting: LED Bulb Design and Assembly"

Anant Education Society's  
**Jaysingpur College, Jaysingpur**  
 Department of Physics  
 organizes  
**"Hands-on Training Workshop in Solid-State Lighting: LED Bulb Design and Assembly"**  
 Under  
 DBT-Star College Scheme  
 22<sup>nd</sup> January, 2025 @ 11:00 am, Venue: Department of Physics  
**RESOURCE PERSON**  
  
**Mr. Anup Joshi,**  
 Director,  
 FusionLeap Consultancy & Services, Miraj  
**Organizing Committee**  
 Prof. Dr. S. S. Mahajan (In-charge), Prof. Dr. B. H. Sangeer (Head, Dept. of Physics), Dr. S. D. Deshpande (Dept. of Physics), Dr. S. R. Kulkarni (Dept. of Physics), Dr. C. H. Nikam (Dept. of Physics), Dr. B. D. Shinde (Dept. of Physics), Mr. V. H. Shinde (Dept. of Physics), Dr. S. S. Patil (Dept. of Physics), Dr. S. R. Shinde (Dept. of Physics), Mr. P. R. Patil (Dept. of Physics), Mr. B. H. Sangeer (Dept. of Physics)



#### Webinar on "Metrology: The Science of Precision Measurements and Quality"

Anant Education Society's  
**Jaysingpur College, Jaysingpur**  
 Department of Physics  
 organizes  
**Webinar on "Metrology: The Science of Precision Measurements and Quality"**  
 Under  
 DBT-Star College Scheme  
 19<sup>th</sup> January, 2025 @ 12:00 am, Venue: Department of Physics  
**RESOURCE PERSON**  
  
**Dr. Dilip Shilvan**  
 Senior Principal Scientist, CSIR-National Physical Laboratory (NPL), New Delhi  
 (Google meet link: <https://meet.google.com/vor-dzax-qj/>)  
**Organizing Committee**  
 Prof. Dr. S. S. Mahajan (In-charge), Prof. Dr. B. H. Sangeer (Head, Dept. of Physics), Dr. S. D. Deshpande (Dept. of Physics), Dr. S. R. Kulkarni (Dept. of Physics), Dr. C. H. Nikam (Dept. of Physics), Dr. B. D. Shinde (Dept. of Physics), Mr. V. H. Shinde (Dept. of Physics), Dr. S. S. Patil (Dept. of Physics), Dr. S. R. Shinde (Dept. of Physics), Mr. P. R. Patil (Dept. of Physics), Mr. B. H. Sangeer (Dept. of Physics)



#### One day workshop on "Mathematical methods in Physics"

Anant Education Society's  
**Jaysingpur College, Jaysingpur**  
 Department of Physics  
 organizes  
**ONE DAY WORKSHOP ON "MATHEMATICAL METHODS IN PHYSICS"**  
 Under  
 DBT-Star College Scheme  
 18<sup>th</sup> January, 2025 @ 11:00am, Venue: Department of Physics  
**RESOURCE PERSON**  
  
**Prof. Dr. M.V. Takale**  
 Research Professor, Dept. of Physics,  
 Shivaji University, Kolhapur  
**Organizing Committee**  
 Prof. Dr. S. S. Mahajan (In-charge), Prof. Dr. B. H. Sangeer (Head, Dept. of Physics), Dr. S. D. Deshpande (Dept. of Physics), Dr. S. R. Kulkarni (Dept. of Physics), Dr. C. H. Nikam (Dept. of Physics), Dr. B. D. Shinde (Dept. of Physics), Mr. V. H. Shinde (Dept. of Physics), Dr. S. S. Patil (Dept. of Physics), Dr. S. R. Shinde (Dept. of Physics), Mr. P. R. Patil (Dept. of Physics), Mr. B. H. Sangeer (Dept. of Physics)



## ❖ LINKS FOR DEPARTMENTAL REPORTS:

### 1) DEPARTMENT OF CHEMISTRY-

2023-24: [https://btstarcollege.jaysingpurcollege.edu.in/wp-content/uploads/Chemistry-Reports\\_2023-24.pdf](https://btstarcollege.jaysingpurcollege.edu.in/wp-content/uploads/Chemistry-Reports_2023-24.pdf)

2024-25: <https://btstarcollege.jaysingpurcollege.edu.in/wp-content/uploads/Chemistry-Reports-2024-25.pdf>

2025-26: <https://btstarcollege.jaysingpurcollege.edu.in/wp-content/uploads/Chemistry-annual-progress-report-2025-26.pdf>

### 2) DEPARTMENT OF PHYSICS-

2023-24: [https://btstarcollege.jaysingpurcollege.edu.in/wp-content/uploads/Physics-Reports\\_2023-24.pdf](https://btstarcollege.jaysingpurcollege.edu.in/wp-content/uploads/Physics-Reports_2023-24.pdf)

2024-25: <https://btstarcollege.jaysingpurcollege.edu.in/wp-content/uploads/Physics-Reports-2024-25.pdf>

2025-26: <https://btstarcollege.jaysingpurcollege.edu.in/wp-content/uploads/Annual-Progress-Report-Department-of-Physics-2025-26.pdf>

### 3) DEPARTMENT OF BOTANY-

2023-24: [https://btstarcollege.jaysingpurcollege.edu.in/wp-content/uploads/Botany\\_Reports\\_2023-24.pdf](https://btstarcollege.jaysingpurcollege.edu.in/wp-content/uploads/Botany_Reports_2023-24.pdf)

2024-25: <https://btstarcollege.jaysingpurcollege.edu.in/wp-content/uploads/Botany-Reports-2024-25.pdf>

2025-26: [https://btstarcollege.jaysingpurcollege.edu.in/wp-content/uploads/BOTANY\\_Annual-Progress-Report\\_2025\\_26.pdf](https://btstarcollege.jaysingpurcollege.edu.in/wp-content/uploads/BOTANY_Annual-Progress-Report_2025_26.pdf)

### 4) DEPARTMENT OF ZOOLOGY-

2023-24: [https://btstarcollege.jaysingpurcollege.edu.in/wp-content/uploads/Zoology-Reports\\_2023-24.pdf](https://btstarcollege.jaysingpurcollege.edu.in/wp-content/uploads/Zoology-Reports_2023-24.pdf)

2024-25: <https://btstarcollege.jaysingpurcollege.edu.in/wp-content/uploads/Zoology-Reports-2024-25.pdf>

2025-26: <https://btstarcollege.jaysingpurcollege.edu.in/wp-content/uploads/zoology-reports-1.pdf>

### 5) DEPARTMENT OF MATHEMATICS & STATISTICS-

2023-24: [https://btstarcollege.jaysingpurcollege.edu.in/wp-content/uploads/Mathematics-Reports-\\_2023-24.pdf](https://btstarcollege.jaysingpurcollege.edu.in/wp-content/uploads/Mathematics-Reports-_2023-24.pdf)

2024-25: <https://btstarcollege.jaysingpurcollege.edu.in/wp-content/uploads/Matmematics-Statistics-Reports-2024-25.pdf>

2025-26: <https://btstarcollege.jaysingpurcollege.edu.in/wp-content/uploads/MathematicsAnnual-Progress-Report-2025-26.pdf>

**10. Details of colleges / schools mentored during the Star Scheme Tenure (Name of college / school; class / standard; No. of students benefited; whether any mentored college applied under Star College Scheme, if yes what was the outcome.**

1. Rajaram College, Kolhapur- Applied and attended final taskforce presentation but not selected (2024)
2. Dr. P. K. M. College, Sangli- Applied and attended final taskforce presentation but not selected (2024)
3. Dapoli Urban Bank Senior Science College, Dapoli- Applied and but not selected in preliminary screening (2025)
4. Organised Mentoring Workshop on **DBT-STAR College scheme to Support Colleges** on 31<sup>st</sup> January, 2026. A total 54 faculty members of **32 colleges** were attended this workshop.

**11. Details of increase in the faculty generated resources viz extramural research grants from other funding agencies to strengthen the Star College Scheme efforts.**

Sr.no	Name of Project	Investigators	Amount
1	Studies on Consortium Effect of Bimetallic Micronutrient based Chitosan Nanoparticals (ChNPs) on Cultivated <i>Vigna</i> species	PI- Dr. Suraj Umdale (Botany) Co-PI: Dr. Sandip Sabale (Chemistry)	<b>1,70,000.00</b>
2	Valorization of Polymer Waste in-to Sustainable Activated Carbons for Co2 Capture and Supercapacitor-based Energy Applications	Dr. Sandip Sabale (Chemistry)	<b>60,000.00</b>
3	Green Synthesis of Magnetic Nanoparticles, Their Characterizations & Catalytic Applications	Dr. Gurunath Nikam (Chemistry)	<b>1,30,000.00</b>
4	Analysis Of Novel Special Function	Dr. Jayvant Patade (Mathematics)	<b>70,000.00</b>
5	Synthesis And Characterization of Copper Doped Bismuth Vanadate for Photocatalytic Degradation of Organic Compounds	Dr. Prashant Chikode (Physics)	<b>1,50,000.00</b>
6	Insight to the phytochemical composition of host plants with special reference to Plain Tiger Butterfly <i>Danaus chrysippus</i> (Linn.)	PI- Dr. Sachinkumar Patil (Zoology) Co-PI: Dr. Suraj Umdale (Botany)	<b>1,50,000.00</b>

## 12. SOPs developed, lab manuals created and uploaded on website or submitted to DBT.

- The new practical manual developed by Banaras Hindu University has been provided to conduct experiments undertaken in the two days hands-on workshop on 'Drosophila rearing and conducting genetic experiments.
- Our teachers have developed laboratory practical protocols for Soil analysis, Water Analysis, Practical skills in Chemistry published by the Shivaji University, Kolhapur.
- The Physical and analytical Chemistry laboratory manual for B. Sc. Part-1 students have been developed.

## 13. Self-Evaluation-

Department	*Objective (as stated in proposal)	% achieved	Reasons for underachievement / If achieved, state in quantitative metrics
1) Physics-Chemistry	The list of practical are included in curriculum which are unable to conduct due to unavailability of instruments	90%	Due to implementation of NEP 2020, new practicals were included in the curriculum.
2) Botany-Zoology	New interdisciplinary practical are introduced considering the undergraduate students	100%	
3) Mathematics-Statistics	Interdisciplinary projects are proposed to inculcate research culture among the undergraduates	90%	
	Newly proposed practical and minor research projects are tuned to involve faculty of all departments to utilize their expertise.	90%	
	To enhance the holistic approach towards the interdisciplinary scientific thinking among the students, staff and school teachers from the vicinity- <ul style="list-style-type: none"> <li>• Field Visits, Seminars, Workshops, and Training programs are planned for students</li> <li>• Faculty Development Programs, Workshops, Hands-on training programs are planned for teachers</li> <li>• Various laboratory safety, waste management programs are planned for laboratory staff</li> </ul>	100%	
	The instruments proposed are in sync with the planned experiments and projects	100%	

**14. Details of the procured equipment (as per submitted asset certificate) which would be retained by the college after completion of the project for future research and academics as Annexure-I with request letter for the retention of procured equipment.**

S. No	Name of Equipment/ Asset	Sanctioned Cost in Rs.	Quantity Procured	Actual Cost ( <i>Actual figure, not to roundoff</i> ) in Rs.	Date of Placing order	Date of Receiving Equipment	Payment Voucher No. with Date ( <i>Copy of payment voucher(s) may please be enclosed</i> )	Balance to be reimbursed [ <i>Provide reason(s) for fluctuation in price (if any)</i> ]		
	1	2	3	4	5	6	7	8		
<b>Sanctioned Equipment/Asset</b>										
<b>Mathematics and Statistics</b>										
1	Lenovo Desktop 12 <sup>th</sup> gen	720000.00	16	719328.00	14-07-2023	18-07-2023	AES/JCJ/2023/DBT Star-1/106/01			
2	Mathematica software	98,000.00	1	98181.00	2-03-2024	18-03-2024	C032403873480 dated 5.03.2024			
3	Smart Board	1,67,000.00	2	165000.00	2-03-2024	18-03-2024	C032403855455 dated 5.03.2024			
4	Printer with scanner	15,000.00	1	17000.00	2-03-2024	18-03-2024				
<b>Total</b>		<b>10,00,000.00</b>		<b>999509.00</b>						
<b>Chemistry</b>										
5	pH Meter	22000.00	2	20880.00	14-07-2023	31-07-2023	AES/JCJ/2023/DBT Star-2/106/02 dated 14.07.2023			
6	Conductometer	11000.00	2	21620.00	14-07-2023	31-07-2023				
7	Potentiometer	32000.00	2	26000.00	14-07-2023	31-07-2023				
8	Refractometer	24000.00	2	23000.00	14-07-2023	08-08-2023				
9	Turbidometer	10000.00	1	11650.00	14-07-2023	31-07-2023				
10	Flash Point App	16000.00	1	10000.00	14-07-2023	31-07-2023				
11	Sonicator	8000.00	1	14150.00	14-07-2023	31-07-2023				
12	TLC-UV cabinete	10000.00	1	6150.00	14-07-2023	08-08-2023				
13	Micropipette Set (100-1000uL)	10000.00	4	6600.00	14-07-2023	31-07-2023				
14	Centrifuge	34000.00	1	31500.00	14-07-2023	17-08-2023				
15	Hot air oven	25000.00	1	20500.00	14-07-2023	08-08-2023				
16	Spectrophotometer	53000.00	1	59999.46	02.03.2024	29.03.2024	C032408204185 Dated 06.03.2024			
17	K-Jeldahl Apparatus	20000.00	1	21000.46						
18	Digital Balance	30000.00	1	32000.42						
19	Soxhlet Apparatus	15000.00	1	15324.66						
20	Thermostat	30000.00	1	30000.32						

21	Tablet Dissolution Appratus	80000.00	1	80000.46				
22	Tube Furnace with ramp Temp	70000.00	1	85000.00	02.03.2024	15.04.2024	C032405865797 Dated 05.03.2024	
<b>Total</b>		<b>500000.00</b>		<b>515375.78</b>				
<b>Botany</b>								
23	pH Meter	11000.00	1	10440.00	14-07-2023	31-07-2023	AES/JCJ/2023/DBT Star-2/106/02 dated 14.07.2023	
24	Conductometer (EC)	14000.00	1	10810.00	14-07-2023	31-07-2023		
25	UV trans illuminator	50000.00	1	49200.00	14-07-2023	31-07-2023		
26	Agarose gel electrophoresis	26000.00	1	25700.00	14-07-2023	31-07-2023		
27	Compound Microscope with light	25000.00	1	12500.00	14-07-2023	17-08-2023		
28	Centrifuge	35000.00	1	31500.00	14-07-2023	17-08-2023		
29	Spinwin Microfuge	10000.00	1	9500.00	14-07-2023	17-08-2023		
30	Weighing Balance	30000.00	1	12590.00	14-07-2023	31-07-2023		
31	Refrigerator	28000.00	1	30000.32	02.03.2024	29.03.2024	C032408204185 Dated 06.03.2024	
32	Microwave oven	20000.00	1	21999.92				
33	Spectrophotometer	55000.00	1	59999.46				
34	Autoclave	50000.00	1	52999.70				
35	Mg, Fe, Cu, Mn, Zn HCL	50000.00	1	53100.00				
36	Soxhlet Apparatus	15000.00	1	14293.34				
37	Alumina tube with Vacuum and Gas Purging Coupler	60000.00	1	60000.00	02.03.2024	15.04.2024	C032405865797 Dated 05.03.2024	
38	N2 Gas Cylender with flow regulator	21000.00	1	21850.00				
<b>Total</b>		<b>500000.00</b>		<b>476482.74</b>				
<b>Zoology</b>								
39	pH Meter	11000.00	1	10440.00	14-07-2023	31-07-2023	AES/JCJ/2023/DBT Star-2/106/02 dated 14.07.2023	
40	Conductometer	12000.00	1	10810.00	14-07-2023	31-07-2023		
41	Gel Electrophoresis	15000.00	1	17500.00	14-07-2023	31-07-2023		
42	Turbidometer	13000.00	1	11650.00	14-07-2023	31-07-2023		
43	Autoclave (Digital)	50000.00	1	55200.00	14-07-2023	08-08-2023		
44	Centrifuge	34000.00	1	31500.00	14-07-2023	17-08-2023		
45	Colony Counter	10000.00	1	5200.00	14-07-2023	31-07-2023		
46	Wire loop sterilizer	23000.00	1	33500.00	14-07-2023	31-07-2023		
47	Artificial Brood Chamber	4900.00	1	5605.00	02.03.2024	29.03.2024	C032408204185 Dated 06.03.2024	
48	Rotary Microtome	60000.00	1	61000.10				
49	Van Dorn Unit	20000.00	1	19000.36				
50	Research Microscope	95100.00	1	98000.18				
51	Laminar Air Flow	60000.00	1	61000.10				
51	Compound Microscope	22000.00	4	24001.20				

53	Refridgerator	15000.00	1	15000.16				
54	Digital Spectrophotometer	55000.00	1	59999.46				
<b>Total</b>		<b>500000.00</b>		<b>519406.56</b>				
<b>Physics</b>								
55	SEARLS app	12100.00	1	8500.00	14-07-2023	31-07-2023	AES/JCJ/2023/DBT	
56	Sonicator	45000.00	1	14150.00	14-07-2023	31-07-2023	Star-2/106/02 dated	
57	Magnetic stirrer with Heater	16000.00	1	8000.00	14-07-2023	31-07-2023	14.07.2023	
58	Chemical Bath deposition	95000.00	1	95000.00	14-07-2023	25-08-2023	AES/JCJ/2023/DBT	
59	Spray Thin Film Unit	98000.00	1	98000.00	14-07-2023	25-08-2023	Star-3/106/03 dated	
							14.07.2023	
60	Coefficient of resistance by Platinum resistance Thermometer	13000.00	1	15500.00	14-07-2023	03-08-2023	AES/JCJ/2023/DBT	
61	Thermocouple complete setup	5400.00	1	9500.00	14-07-2023	03-08-2023	Star-4/106/04 dated	
62	pH meter	11000.00	1	10440.00	14-07-2023	31-07-2023	14.07.2023	
63	Thermal Conductivity Meter	12500.00	1	13000.06	02.03.2024	29.03.2024	C032408204185	
64	Lee and Charlton's Disc Instrument	9000.00	2	14104.00			Dated 06.03.2024	
65	RTD Device	15000.00	2	19942.00				
66	Specific Heat Meter	13000.00	2	12500.92				
67	Forbe's Thermal Conductivity Meter	25000.00	2	26000.12				
68	Stefan's Constant Apparatus	9000.00	3	17848.68				
69	Hysteresis Loop Tracer	80000.00	1	78999.82				
70	Muffle Furnace	25000.00	1	30938.42				
71	Digital Power Supply	16000.00	2	16501.12				
<b>Total</b>		<b>500000.00</b>		<b>488925.14</b>				
<b>Grand Total</b>		<b>3000000.00</b>		<b>2999699.22</b>				
<b>Round off total Amount</b>		<b>3000000.00</b>		<b>2999699.00</b>				
Equipment/Asset acquired without sanction but for which the prior approval of the DBT was obtained								
N.A.								

  
 Course Coordinator  
**Coordinator**  
 DBT-STAR College Scheme  
 Jaysingpur College, Jaysingpur



  
 Head of the Institution  
**PRINCIPAL**  
 Jaysingpur College, Jaysingpur