



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 (3rd Cycle) with 'A' Grade (CGPA 3.24)

DBT-STAR COLLEGE SCHEME

ANNUAL PROGRESS REPORT (2025-26)

DEPARTMENT OF BOTANY

Dr. Suraj D. Umdale
Departmental Coordinator

Dr. Sandip Sabale
Coordinator
DBT-STAR COLLEGE SCHEME

Dr. Surat Manjare
Principal
JAYSINGPUR COLLEGE JAYSINGPUR



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR

Department of Botany

Under the aegis of
DBT STAR COLLEGE SCHEME



LIST OF ACTIVITIES

AY: 2025-26

Sr. No.	Event	Title of Event	No. of Beneficiaries	Date
1.	Extra -Curricular Activity	One Day Workshop and Exhibition of Medicinal Plants (२१ गणेश पत्री)	84	19.08.2025
2.	Co-Curricular Activity	Wallpaper Activity- B. Sc. Students	14	26.08.2025
3.	Field Visit	Botanical Excursion to Masai Pathar- Panhala of B. Sc. I Students	42	21.09.2025
4.	Extra-Curricular Activity	One day Hands-on training on "Preparation of Herbal Medicinal Products"	37	30.09.2025
5.	Skill based Co-Curricular Activity	Floral Pageant: Flower Decoration Activity	29+49	08.10.2025
6.	Co-Curricular Activity	Online Guest Lecture - "Seed technology-Principal of Vigour & Viability Testing"- Dr. Ravish Choudhary, IARI, New Delhi	82	09.10.2025
7.	Industrial Visit	Industrial Visit to Oasis Bio-control Laboratory, Shirol (B. Sc. II & III)	33	17.01.2026
8.	Skill based Curricular Activity	Hands-on training on- Herbarium Technique and Understanding E-Herbarium (B. Sc. II & III)	33	28.01.2026
9.	Co-Curricular Activity	Online Guest Lecture -"THE BLUEPRINT OF BREEDING: An Introduction to Molecular Markers in Crop Science' - Dr. Gayacharan, NBPGR, New Delhi	56	11.02.2026
10.	Field Visit	Botanical Visit to Lead Botanical garden (LBG) and Herbaria at Shivaji University, Kolhapur- B. Sc. 2 (Minor) & B. Sc III students	48	12.02.2026
11.	Extra-Curricular Activity	SEMINAR COMPETION 2025-26 (B. Sc. III)	14	17.02.2026
12.	Co-Curricular Activity	An invited talk on "Sustainable Agriculture & Environment: Two Sides of the Same Coin" Dr. Kumar Pranaw, JNU, New Delhi	59	18.02.2026
13.	Co-Curricular Activity	Celebration of National Science Day-2026	18	28.02.2026
14.	Extra-Curricular Activity	Participation in Two days 'International Conference on Changing Scenario in Science and Technology: A Multidisciplinary Approach (ICCSST-2026)'	05	06.03.2026 to 07.03.2026

Dr. S. D. Umdale
Departmental Coordinator (Botany)



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany



REPORT ON
One Day Workshop and Exhibition of Medicinal Plants
(21 Ganesh Patri)

Organized by
Department of Botany

19th August, 2025

Under the aegis of
DBT-STAR COLLEGE SCHEME



DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology
Government of India





ACTIVITY REPORT

Year:	2025-26
Name of the Activity:	One Day Workshop and Exhibition of Medicinal Plants (21 Ganesh Patri)
Date:	19 th August, 2025
Venue:	Conference Hall, Jaysingpur College, Jaysingpur
Co-ordinator:	Prof. Manisha V. Kale
Organised for: College/class/ staff	B. Sc. Students
Financial Support	DBT-STAR COLLEGE SCHEME
No. of Participants	58 (F)+ 26 (M)=84
Nature: (e.g. Academic, cultural, sports etc)	Extra-curricular Activity
Objectives of the Activity	To educate and engage students with the festival's cultural and spiritual significance while promoting creativity and environmental awareness.
Chief Guest/s or Resource Person/s	Dr. Madhukar Bachulkar, President, Nisarg Ankur, Former Prin. Shri. Vijaysinha Yadav Arts & Science College, Peth Vadgaon Mrs. Sangita Sawardekar, Mrs. Chitra Deshpande, Mrs. Supriya Bhasme, Mrs. Kalpana Sawant Gardens Club-Kolhapur, MS, INDIA.
Short Report (in English)	The department of Botany has organized one day Workshop on Exhibition of 21 Ganesh Patri for the B. Sc. students. In this workshop, about 109 students were participated. During this workshop, students have engaged in preparation of healthy juice, preparation of flower decoration, and preparation of compost. Also, students have received knowledge of celebration of environment friendly Ganesh festival.



One Day Workshop and Exhibition of medicinal plants (21 Ganesh Patri)

18th August, 2025

The department of Botany has organized a one day workshop on “**Exhibition of 21 Ganesh Patri**” for the B.Sc. students as a co-curricular activity on 18th August, 2025 sponsored by DBT-STAR COLLEGE SCHEME. The students were notified using notice displayed on notice board and on whatsapp group. About 109 students and teachers were participated in the workshop.

The programme was started with the inauguration of display of the 21 Ganesh Pooja Patri along with the botanical description of plants. Prof. M. V. Kale, Professor, Department of Botany, Jaysingpur College Jaysingpur has briefed about the aims and objectives of the workshop. In her preface, she has told that, the engagement of students with the festival's cultural and spiritual significance while promoting creativity and environmental awareness is important for overall development of students. Also she has given the brief introduction of resource persons of the workshop. The workshop was started with welcome and felicitation of resource person by Honble. Prin. Dr. S. A. Manjare, Prof. M. V. Kale, and Dr. Mrs. S. S. Mahajan.

Session I: Mrs. Sangita Sawardekar: Demonstration of various types of garlands and toran made from leaves and flowers.

In first session of the workshop, **Mrs. Sangita Sawardekar** demonstrated the preparation of the various types of garlands and torans from leaves and flowers of different plants. The students have also prepared live beetle leaf and flower torans. These decorations will be used during auspicious occasions. The floral torans made with marigolds or roses, and decorative leaf toran crafted from materials like coconut leaves or even stitched cotton. These decorative hangings can be used for doorways, mandap, altars, and other spaces during festivals, ceremonies, and home decor.



Anekant Education Society's JAYSINGPUR COLLEGE JAYSINGPUR

- Affiliated to Shivaji University Kolhapur
- Jain Minority College
- Reaccredited 'A' grade by NAAC
- DST-FIST [Level-1] Sponsored
- DBT-STAR COLLEGE SCHEME



DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology
Government of India

DEPARTMENT OF BOTANY

Organizes

One Day Workshop and Exhibition of Medicinal Plants (21 Ganesh Patri)

Under the Aegis of

DBT-STAR COLLEGE SCHEME

RESOURCE PERSONS

Dr. Madhukar Bachulkar

President, Nisarg Ankur,
Former Prin. Shri.vijaysinha Yadav Arts &
Science College, Peth Vadgaon

**Mrs. Sangita Sawardekar,
Mrs. Chitra Deshpande,
Mrs. Supriya Bhasme,
Mrs. Kalpana Sawant**
Gardens Club-Kolhapur, MS, INDIA.

DATE

19th August, 2025

TIME

10:00 am to 2:00pm

Venue

CONFERENCE HALL

Organizing Committee

Prof. Dr. Manisha V. Kale

Program Coordinator
Head, Department of Botany

Dr. P. B. Karuna
Asst. Prof.
Department of Botany

Dr. (Mrs) V. R. Dawande
Asst. Prof.
Department of Botany

Mr. C. R. Chivate
Asst. Prof.
Department of Botany

Ms. S. A. Magdum
Asst. Prof.
Department of Botany

Dr. (Ms.) R. N. Chougule
Asst. Prof.
Department of Botany

Dr. S. D Umdale
Asst. Prof.
Department of Botany



Dr. S. R. Sabale
Coordinator
DBT-Star College Scheme

Dr. S. S. Mahajan
Dean
Faculty of Science

Dr. S. A. Manjare
Principal,
Jaysingpur College Jaysingpur



PROGRAM BROCHURE

Session II: Dr. Pramila Battashe/Mrs. Kalpana Sawant: Making healthy juice (energy drink) from leaves and its benefits.

During the second session of the workshop, Dr. Pramila Battashe, gave training of the preparation of the healthy juice from 21 Ganesh Patries. She also gave information of medicinal importance of the juice. Furthermore, she told that, the juice

is rich in antioxidants, Flavonoids, Phenolics, vitamins. The energy drink was refreshing and participants have really enjoyed the juice prepared from leaves.

Session III: Mrs. Supriya Bhasme: Fertilizer production from leaves (Nirmalya).

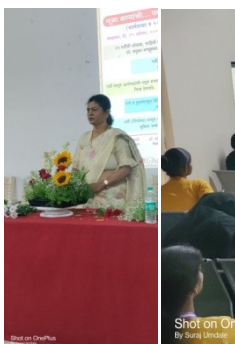
The resource person of the third session was **Mrs. Supriya Bhasme**, Secretary, Gardens Club Kolhapur. In her session, she demonstrated the preparation of garden the fertilizer with the help of temple waste (Nirmalya) which include the flowers, fruits and leaves of various plants. She had explained the detailed procedure of making compost bed in the bag at home. She also told the benefits of homemade fertilizer for the home garden and terrace garden.

Session IV: Dr. Madhukar Bachulkar: Identification, Information and uses of 21 Ganesh Patri.

During the fourth session of the workshop, Dr. Madhukar Bachulkar presented the brief botanical information and the economic importance of 21 Ganesh Patri. Also he had given information about the use of 21 Ganesh Patri in herbal preparations like Dhashmula, Mahabhrigraj, and other Ayurvedic formulations.

During valedictory, Dr. Suraj Umdale has given the vote of thanks and congratulated student participants for successful completion of Workshop. He also thanked the DBT (DBT-Star College Scheme), Govt. of India for financial assistance. At the end of activity the student participants gave a short feedback about the Workshop. The workshop was concluded with the expression of the gratitude to the resource persons of the workshop, Honourable, Prin. Dr. S. A. Manjare, Prof. Manisha V. Kale, Head, Dept. of Botany, Committee members for wonderful and significant initiative toward the celebration of the eco-friendly Ganesh festival.









Glimpses of One day Workshop on Exhibition of 21 Ganesh Pooja Patri



Glimpses of One day Workshop on Exhibition of 21 Ganesh Pooja Patri

 Dr. S. D. Umdale Departmental Coordinator DBT-Star College Scheme	 Dr. S. R. Sabale Coordinator DBT-Star College Scheme	 Prof. Dr. (Mrs.) M. V. Kale Head Department of Botany	 Dr. S. A. Manjare Principal Jaysingpur College Jaysingpur
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Ankant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany

DET-STAR COLLEGE SCHEME
One day Workshop on "Exhibition of 21 Ganesh Patri"

Date: 19.08.2025

ATTENDANCE SHEET

Sr. No.	Name of student/Faculty	Class/ designation	Sign
1	Pooja Suryakant Shinde	B.Sc-III	[Signature]
2	Neelashree Sandeep Kamble	B.Sc-III	[Signature]
3	Dhruva Adinath Patil	B.Sc-III	[Signature]
4	Samruddhi Sandeep Solunke	B.Sc-III	[Signature]
5	Sakshi Vijay Jondale	B.Sc-III	[Signature]
6	Sakshi Dipak Gavade	B.Sc-III	[Signature]
7	Prinanka Vijay Mane	B.Sc-II	[Signature]
8	Akshaya Siddhanta Biradar	B.Sc-II	[Signature]
9	Samiksha Pratik Ambhi	B.Sc-II	[Signature]
10	Prachada Parasram Kamble	B.Sc-II	[Signature]
11	Saravathi Prashant Mali	B.Sc-II	[Signature]
12	Manasi Jayprakash Parit	B.Sc-II	[Signature]
13	Shubhangi Siddhappa Nakhar	B.Sc-II	[Signature]
14	Neha Sandip Kamble	B.Sc-II	[Signature]
15	Gurija Gangaappa Mahale	B.Sc-II	[Signature]
16	Ankita Shashikant Mane	B.Sc-II	[Signature]
17	Snaha Ravindra Vairage	B.Sc-II	[Signature]
18	Apsa Shabbir Jaina	B.Sc-II	[Signature]
19	Ratika Pamesh Magdum	B.Sc-II	[Signature]
20	Tajal Digambar Rane	B.Sc-II	[Signature]
21	Shreya Prakash Sawant	B.Sc-II	[Signature]
22	Komal Dipak Sawant	B.Sc-II	[Signature]
23	Vidya Rama Ram Nandare	B.Sc-II	[Signature]
24	Ravati Sanjay Mane	B.Sc-II	[Signature]
25	Pratiksha Prakash Mane	B.Sc-II	[Signature]
	Aditya Tanaji Galkwad	B.Sc-III	[Signature]
	Somali Shishir Mane	B.Sc-III	[Signature]
	Nafisa Zaman Mulla	B.Sc-III	[Signature]

Ankant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany

DBT-STAR COLLEGE SCHEME
One day Workshop on "Exhibition of 21 Ganesh Patri"

Date: 19.08.2025

ATTENDANCE SHEET

Sr. No.	Name of student/Faculty	Class/ designation	Sign
26	Siddhi Vijay Sutar	B.Sc-I	[Signature]
27	Shital Sunil Suryavanshi	B.Sc-I	[Signature]
28	Shravan Sandip Patil	B.Sc-I	[Signature]
29	Bibhishya Khalidhusen Shaikh	B.Sc-I	[Signature]
30	Habiba Sandipha Ferozali T.	B.Sc-II	[Signature]
31	Rukhsar Munir Mujawar	B.Sc-II	[Signature]
32	Rohamshah Amir Dhanot	B.Sc-I	[Signature]
33	Vijay Sandeep Nandhale	B.Sc-I	[Signature]
34	Sankar Ganesh Sankar	B.Sc-II	[Signature]
35	Sudhanshu Sanjay Chavan	B.Sc-I	[Signature]
36	Aditya Rajit Patil	B.Sc-I	[Signature]
37	Karan Appasa Kumbhaje	B.Sc-I	[Signature]
38	Vikas Anil Mali	B.Sc-II	[Signature]
39	Aniket Anandkumar Hanbar	B.Sc-II	[Signature]
40	Vinay Chaygonda Chavan	B.Sc-II	[Signature]
41	Pravir Ravindra Rubane	B.Sc-I	[Signature]
42	Pranav Anand Mali	B.Sc-I	[Signature]
43	Siddhant Nandoo Kothawale	B.Sc-II	[Signature]
44	Nilesh Kapi Kamble	B.Sc-II	[Signature]
45	Gandharv Anil Patil	B.Sc-I	[Signature]
46	Sayal Amol Gade	B.Sc-I	[Signature]
47	Ashwini Bhasavasa Balapagol	B.Sc-I	[Signature]
48	Shinde, Nandini Deepak	B.Sc-I	[Signature]
49	Koli, Rutva Suresh	B.Sc-I	[Signature]
50	Shamika Sambhaji Bhanuse	B.Sc-I	[Signature]
	Pratiksha Tanaji Galkwad	B.Sc-III	[Signature]
	Pratiksha Sunil Mangunde	B.Sc-III	[Signature]

Ankant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany

DBT-STAR COLLEGE SCHEME
One day Workshop on "Exhibition of 21 Ganesh Patri"

Date: 19.08.2025

ATTENDANCE SHEET

Sr. No.	Name of student/Faculty	Class/ designation	Sign
51	Shreya Tanaji Pandar	B.Sc-I	[Signature]
52	Yash Sandip Dalal	B.Sc-III	[Signature]
53	Ramesh Shrikant Patil	B.Sc-III	[Signature]
54	Saividhan Suryakant Kalap	B.Sc-I	[Signature]
55	Shubham Uttam Sankar	B.Sc-I	[Signature]
56	Asharv Ashok Kupade	B.Sc-II	[Signature]
57	Suhani Sunil Magdum	B.Sc-I	[Signature]
58	Vaishnavi Chandrakant Gurni	B.Sc-I	[Signature]
59	Santana Sadashiv Mali	B.Sc-III	[Signature]
60	Yogita Dipak Patil	B.Sc-III	[Signature]
61	Yashoda Prakash Autade	B.Sc-I	[Signature]
62	Anahit Sandesh Patil	B.Sc-I	[Signature]
63	Shraddha Sanjay Patil	B.Sc-I	[Signature]
64	Siddhant Gajappa Ghatge	B.Sc-I	[Signature]
65	Sonali Abhimanyu Bhoi	B.Sc-I	[Signature]
66	Amruta Uttam Sutar	B.Sc-II	[Signature]
67	Ratika Sanjay Koli	B.Sc-II	[Signature]
68	Mayuri Anil Patil	B.Sc-II	[Signature]
69	Chetan Sanjay Kumbhar	B.Sc-I	[Signature]
70	Pooja Sanjay Magdum	B.Sc-I	[Signature]
71	Shidhar Mahadev Mane	B.Sc-I	[Signature]
72	Tajal Sankar Mungale	B.Sc-I	[Signature]
73	Aditya Ananda Kothari	B.Sc-I	[Signature]
74	Shreyash Kamalakar Shalake	B.Sc-II	[Signature]
75	Mayuri Tanaji Ambhi	B.Sc-I	[Signature]
	Sunila Sanjay Shelake	B.Sc-II	[Signature]

Ankant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany


DBT-STAR COLLEGE SCHEME
One day Workshop on "Exhibition of 21 Ganesh Patri"


Date: 19.08.2025


ATTENDANCE SHEET


Sr. No.	Name of student/Faculty	Class/ designation	Sign
76	Sohil Rahul Kamble	B.Sc-I	[Signature]
77	Anishik Suresh Shinde	B.Sc-I	[Signature]
78	Abrar M. Pandhavi	B.Sc-I	[Signature]
79	Suryakant Salikant Shinde	B.Sc-I	[Signature]
80	Sohan Sadashiv Phule	B.Sc-I	[Signature]
81	Priyanshu Vijay Dongare	B.Sc-I	[Signature]
82	Sankar Prakash Chatur	B.Sc-I	[Signature]
83	Vijal Sanjay Shambhaji	B.Sc-I	[Signature]
84	Prashant Prakash Kulkarni	B.Sc-I	[Signature]
85	Dhruv Gaganan Hevare	B.Sc-I	[Signature]
86	Saurabh Pamesh Mahadev	B.Sc-I	[Signature]
87	Om Sunil Prakash	B.Sc-I	[Signature]
88	Aasavari Jitendra Shinde	B.Sc-II	[Signature]
89	Surbhi Sunil Nimal	B.Sc-II	[Signature]
90	Anvita Shital Deshpande	B.Sc-II	[Signature]
91	Pratiksha Ganesh Kulkarni	B.Sc-I	[Signature]
92	Bhargava Vidya Balaji	B.Sc-I	[Signature]
93	Yogita Sunil Gharpade	B.Sc-I	[Signature]
94	Mitali Anil Kamble	B.Sc-I	[Signature]
95	Ankita Rajkumar Chougale	B.Sc-I	[Signature]
96	Sakshi Maanvi Shelake	B.Sc-I	[Signature]
97	Shital Hanmant Kavare	B.Sc-I	[Signature]
98	Tanvi Bahubali Kurade	B.Sc-I	[Signature]
99	Shreya Santosh Devatale	B.Sc-I	[Signature]
100	Zainab Mubashir Nadeem	B.Sc-I	[Signature]
101	Neha Vishwas Duba	B.Sc-II	[Signature]
102	Shreya Chaitanya Kamble	B.Sc-II	[Signature]
103	Vaishnavi Vijay Kumbhar Sutar	B.Sc-II	[Signature]

Attendance Sheet


Dr. S. D. Umdale
Departmental Coordinator
DBT-Star College Scheme


Dr. S. R. Sabale
Coordinator
DBT-Star College Scheme


Prof. Dr. (Mrs.) M. V. Kale
Head
Department of Botany


Dr. S. A. Manjare
Principal
Jaysingpur College Jaysingpur

Anekant Education Society,
JAYSINGPUR COLLEGE JAYSINGPUR



REPORT ON
Wallpaper Activity

Organized by
Department of Botany,
Internal Quality Assurance Cell (IQAC)

26th August, 2025

Under the aegis of
DBT-STAR COLLEGE SCHEME



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR

DEPARTMENT OF BOTANY

ACTIVITY REPORT

Year:	2025-26
Name of the Activity:	Wallpaper Activity
Date:	26 st August, 2025
Venue:	Department of Botany, Jaysingpur College
Financial Assistance:	DBT-STAR COLLEGE SCHEME
Co-ordinator:	Dr. S. D. Umdale
Organised for: College/class/ staff	B. Sc. III Students
No. of Participants	14F= 14
Nature: (e.g. Academic, cultural, sports etc)	Academic Activity
Objectives of the Activity	To give exposure to students for their ability to express their views about botany. Also, to encourage the students in visual organization and presentation of information
Chief Guest/s or Resource Person/s	Dr. S. A. Manjare Principal, Jaysingpur College Jaysingpur Prof. (Mrs). M. V. Kale Head, Department of Botany
Short Report (in English)	The department of Botany organized the "Wallpaper Activity" at Department of Botany, Jaysingpur College Jaysingpur. The 14 participants were prepared 15 posters of various areas of botanical science. During this activity students and visitors were got the knowledge of diverse area of Botany including recent advances and traditional botany. The program was conducted under the guidance and presence Prof. (Mrs). M. V. Kale, Head, Department of Botany, Jaysingpur College Jaysingpur.
Outcome/Remark	The students were enlightened with traditional botany and also recent advances in Botany.



Wallpaper Activity Report

Date: 26.08.2025

The Department of Botany, Jaysingpur College Jaysingpur has organized a Wallpaper activity on 26th August, 2025. During this event, the all students of third year botany were actively participated in the wallpaper activity. The event was started at 10:30 am with welcome of our chief guest Dr. Surat A. Manjare, Principal, Jaysingpur College Jaysingpur by Prof. Dr. Manisha V. Kale, Head, Department of Botany. Dr. Suraj D. Umdale, Dr. Pravin B. Karuna, Dr. Varsha R. Davande, Dr. Rupali N. Chougule, Miss. Shweta A. Magdum and Mr. Chetan R. Chivate from Department of Botany were present for the wallpaper activity.

The program was started with the inauguration of the program on the auspicious presence of the chief gust, Honourable, Prin. Dr. Surat A. Manjare. The preface of the activity was given by Prof. Dr. Manisha V. Kale. In the presidential speech, Honourable, Prin. Dr. Surat A. Manjare, gave brief talk about the importance of the wallpaper activity and inspired the students. Also, he shared his views about wallpaper activity with the students. Also, Honourable, Prin. Dr. Surat A. Manjare sir congratulated for the successful organisation of the wallpaper activity. During event, Dr. Suraj D. Umdale discussed about the theme and purpose of the organization of the wallpaper activity.

During this event, a total fourteen participants made fifteen different wallpapers on recent advances and traditional Botany. The topics of wallpapers were Ayurveda, Plant nutrients, Soil, plant tissue culture, Botany beyond beauty, plant anatomy, medicinal plants and microscope design. The teachers and students from various departments visited the wallpapers and acquired the knowledge of botany during discussions with participants. The two examiners (Miss. Shweta A. Magdum and Dr. Varsha R. Dawande) thoroughly evaluated the wallpapers. The event was anchored by Miss. Purva Kore, Student, B. Sc.-3 (Botany). Miss. Sakshi Tandale Student, B. Sc.-3 (Botany) gave vote of thanks and with permission of the chairperson, Prof. Dr. Manisha V. Kale concluded the program.

Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR


DEPARTMENT OF BOTANY

Notice

Date: 21/08/2025

All students of B. Sc. III are hereby informed that the "Wallpaper Activity" of Subject BOTANY is scheduled on **Tuesday, 26/08/2025**. All students are informed that they must be present for the activity. The interested students prepare wallpaper and confirm their participation.

Day: **Tuesday**
Date: **26/08/2025**
Time: **10:30 am**
Venue: **Botany Department**


Head
Department Of Botany
Jaysingpur College, Jaysingpur













Notice

Anekant Education Society's
JAYSINGPUR COLLEGE JAYSINGPUR

DEPARTMENT OF BOTANY

Wallpaper Activity
Wallpaper Topic

Date: 26/08/2025



Sr. No.	Name	Wallpaper Topic	Sign
1	Sakshi S. Koli	Ayurveda	
2	Sakshi D. Gavade	Essential Nutrients	
3	Pooja C. Kere	Soil - It's not just Dirt	
4	Arpita A. Koli	Pollination and fertilization	
5	Diksha A. Patil	Plant tissue culture	
6	vedkshre. kamble	understanding trees.	
7	Zara M. Gavandi	Botany beyond beauty plants that heal	
8	Zara M. Gavandi	Herbs for women's health	
9	Sakshi V. Tandale	Plant tissue culture	
10	Payal S. Shinde	Life cycle of flowering plants	
11	Nafisa I. Nadaf	Plant pathogen & Biocontrol	
12	Saloni S. Mane	Anatomy of a flower	
13	Bhakti S. Mungunde	Medicinal plants.	

Anekant Education Society's
JAYSINGPUR COLLEGE JAYSINGPUR

DEPARTMENT OF BOTANY

Wallpaper Activity
Wallpaper Topic

Date: 26/08/2025

Sr. No.	Name	Wallpaper Topic	Sign
14	Pratiksha T. Gaikwad	Compound microscope	
15	Prachya T. Gaikwad	kingdom - Plantae	
16			
17			
18			
19			
20			

List of Participants



Longitude: 74.557747
 Elevation: 588.35x3.85 m
 Time: 26-08-2025 10:52
 Jaysingpur, Pune Division, Maharashtra
 Note: wallpaper activity and welcome function
 Powered by NoteCam



Longitude: 74.557754
 Elevation: 579.15x9.35 m
 Time: 26-08-2025 10:54
 Jaysingpur, Pune Division, Maharashtra
 Note: wallpaper activity and welcome function
 Powered by NoteCam



Longitude: 74.557756
 Elevation: 579.15x10.0 m
 Time: 26-08-2025 10:59
 Jaysingpur, Pune Division, Maharashtra
 Note: wallpaper activity and welcome function
 Powered by NoteCam



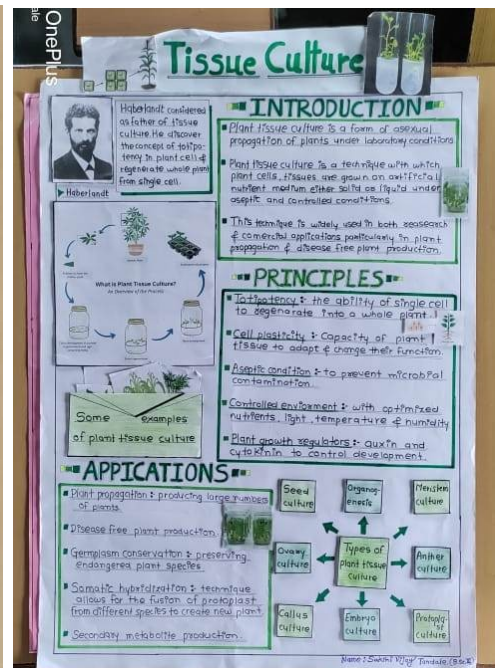
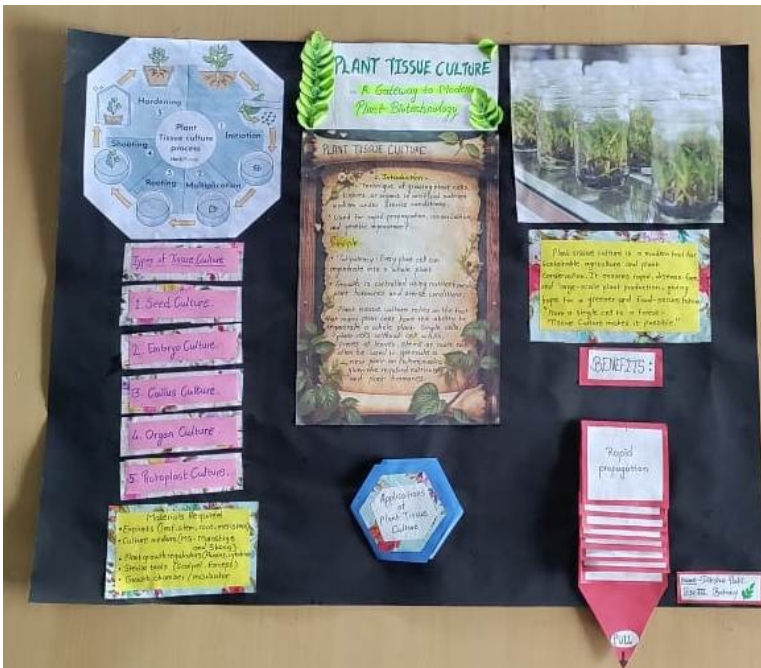
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 Time: 26-08-2025 10:59
 Jaysingpur, Pune Division, Maharashtra
 Note: wallpaper activity and welcome function
 Powered by NoteCam



Longitude: 74.557773
 Elevation: 579.15x8.88 m
 Time: 26-08-2025 11:11
 Jaysingpur, Pune Division, Maharashtra
 Note: wallpaper activity and welcome function
 Powered by NoteCam



Longitude: 74.55776
 Elevation: 579.15x10.3 m
 Time: 26-08-2025 11:27
 Jaysingpur, Pune Division, Maharashtra
 Note: wallpaper activity and welcome function
 Powered by NoteCam



Kingdom Plantae

Plants are multicellular, eukaryotic organisms that are capable of photosynthesis. They are the most diverse group of organisms on Earth.

Cryptophytes

Algae, kelps, and other large seaweeds.

Plantae

Embryophytes: mosses, ferns, gymnosperms, angiosperms.

Charophytes

Algae that are closely related to land plants.

Thallophytes

Algae, fungi, and other non-stemmed plants.

Bryophytes

Mosses and liverworts.

Phanerogams

Gymnosperms and angiosperms.

Embryophytes

Land plants with embryos.

Angiosperms

Flowering plants that produce fruits.

Gymnosperms

Non-flowering plants that produce cones.

Compound Microscope

Introduction

A compound microscope is used to view small specimens that cannot be seen by the naked eye. It consists of a system of two or more lenses that produce a magnified image of the specimen.

Parts of a Compound Microscope

- 1. Eyepiece
- 2. Revolving nosepiece
- 3. Objective lenses
- 4. Stage
- 5. Slide
- 6. Stage micrometer
- 7. Stage clips
- 8. Condenser lens
- 9. Base
- 10. Coarse adjustment screw
- 11. Fine adjustment screw
- 12. Light source

How to use it

1. Set up the microscope on a flat surface.
2. Turn the revolving nosepiece to select the objective lens you wish to use.
3. Place the slide on the stage.
4. Adjust the stage clips to hold the slide in place.
5. Turn the coarse adjustment screw to bring the slide into focus.
6. Turn the fine adjustment screw to sharpen the focus.
7. Observe the specimen through the eyepiece.
8. Turn the revolving nosepiece to select a lower magnification objective lens.
9. Turn the coarse adjustment screw to bring the slide into focus.
10. Turn the fine adjustment screw to sharpen the focus.
11. Turn the revolving nosepiece to select the eyepiece.
12. Turn the coarse adjustment screw to bring the slide into focus.
13. Turn the fine adjustment screw to sharpen the focus.

Name: Pratiksha Tanaji Ghatwade
 B.Sc - III (Botany)
 Roll No: 45
 Wall paper activity

MEDICINAL PLANTS

Neem

Neem has wide medicinal uses. It is used to treat hypertension, mental disorders and fever. It's bark and stem are used to manage diabetes and depression. It is also used to treat hypertension, mental disorders and fever. It's bark and stem are used to manage diabetes and depression.

Almond

Almond is used in treating sleep disorders. It's soothing properties make it effective for treating insomnia, improving sleep quality. Almond helps in treating anxiety and depression. Almond exhibits antioxidant, antifungal and anti-cancer properties that benefit skin health.

Lotus

Lotus has wide medicinal uses. It is used to treat hypertension, mental disorders and fever. It's bark and stem are used to manage diabetes and depression. It is also used to treat hypertension, mental disorders and fever. It's bark and stem are used to manage diabetes and depression.

Neem

Neem has wide medicinal uses. It is used to treat hypertension, mental disorders and fever. It's bark and stem are used to manage diabetes and depression. It is also used to treat hypertension, mental disorders and fever. It's bark and stem are used to manage diabetes and depression.

Pollination And Fertilization

Pollination

Transfer of pollen grains from the anther to the stigma of the same flower or from the anther of one flower to the stigma of another flower of the same species.

Fertilization

Process by which male gamete fuses with female gamete to form a zygote.

Anatomy of a flower

Saloni Satish Mane

SOIL - it's not just DIRT!

There are seven main soil types:

1. Mountain soil
2. Desert soil
3. Prairie soil
4. Glacial soil
5. Wetland soil
6. River soil
7. Temperate soil

Soil is the critical component for the environment, being part of the nitrogen, carbon, and water cycles.

Many of today's antibiotics were obtained from soil microorganisms.

Earthworms digest organic matter, recycle nutrients and make the surface soil richer. In one acre of land, there can be more than a million earthworms.

One gram of soil contains about a million species of bacteria, one acre of soil can hold 5-10 tons of living organisms.

Healthy soil is essential for life on Earth.

Soil provides essential nutrients and a foundation for plants. The good soil we need today is the soil we made 10,000 years ago.

Without healthy soil, we wouldn't have fruits, vegetables or grains.

Soil provides a home for animals like worms, insects and small mammals. We in turn have a vital habitat that supports biodiversity.

Soil provides a home for buildings.

Soil is important in our life.

Did you know soil is alive?

Dr. S. D. Umdale
 Departmental Coordinator
 DBT-Star College Scheme

Dr. S. R. Sabale
 Coordinator
 DBT-Star College Scheme

Prof. Dr. (Mrs.) M. V. Kale
 Head
 Department of Botany

Dr. S. A. Manjare
 Principal
 Jaysingpur College Jaysingpur



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany
Under the aegis of
DBT STAR COLLEGE SCHEME



Report of
Botanical Excursion (Field Visit)
B. Sc. I
Masai Pathar-Panhala, Kolhapur
(2025-26)

Under the aegis of
DBT-STAR COLLEGE SCHEME



DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology
Government of India





Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR

Department of Botany

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ACTIVITY REPORT

Year:	2025-26
Name of the Activity:	Field visit of B. Sc. I Students to Masai Pathar (Plateau)- Panhala, Kolhapur
Date:	21 st September, 2025
Venue:	Department of Botany, Jaysingpur College
Financial Assistance	DBT-STAR COLLEGE SCHEME
Tour in-charge:	Mr. C. R. Chivate
Organised for: College/class/ staff	B. Sc. I Students
No. of Participants	26F (01 staff)+16M (02 staff)= 42 (03 staff)
Nature: (e.g. Academic, cultural, sports etc)	Academic Activity
Objectives of the Activity	The objective of study tour was to familiarize the students with the Algae, Bryophytes, Pteridophytes and floristic diversity of the Masai Pathar Kolhapur, (Western Ghats of Maharashtra)
Short Report (in English)	As per the curriculum of Shivaji University, Kolhapur for B. Sc. I Botany subject. The department of Botany organised the Botanical Excursion (Field visit) to Masai Pathar-Panhala, Kolhapur. A total 42 students and 03 faculty staff were participated in this study tour. The main aim of Botanical Excursion was to study to explore the biologically diverse area and get knowledge of the rare flowering plants exclusively seasonal plants blooming in September-October at Masai Pathar- Panhala. The present Botanical excursion increased the knowledge of students about the nomenclature, Habit, Habitat, environment, and wealth of Masai Pathar-Panhala.



BOTANICAL EXCURSION (FIELD VISIT) REPORT

21st September, 2025

The Department of Botany has organised One Day Botanical excursion tour Masai Pathar- (Plateau) Panhala, Kolhapur, on Sunday, 21st September 2025 for B.Sc. I year students. The botanical excursions or field visit are arranged to give exposure to students. Field education is equally important as classroom teaching. The field study is an essential part of botany as plants are best studied in their natural habitat. These tours also help to build good repo amongst students and teachers. The major objective was to familiarize the students with the wild flora and ecology of the region. A group of 42 students along with teaching staff Dr. Rupali Chougule (Assistant Professor), Mr. Chetan Chivate (Assistant Professor), and Dr. Pravin Karuna (Assistant Professor) of Botany department were participated in the botanical excursion.

The all teachers and students assembled and started our journey from central bus station of Jaysingpur at 6.30 am. The students were reached Masai Pathar-Panhala at 9.00am via. Kolhapur. The excursion begins with the exploration of Masai Pathar for the study plants in their wild habitat. The Masai Pathar is a wildflower-covered lateritic plateau near Panhala Fort in the Kolhapur district of Maharashtra. It is a designated conservation reserve and is known for its scenic beauty, especially during the monsoon season. The plateau is situated about 7.5 km from Panhala hill station and approximately 30 km from Kolhapur city. It is part of the Sahyadri Mountain ranges (Commonly known as Western Ghat). In 2022, the state government designated Masai Pathar as a conservation reserve to protect its unique biodiversity. The reserve spans 533.92 hectares and acts as a buffer zone for wildlife-Biodiversity Rich Zone.

Dr. Pravin B. Karuna have given introduction of Purpose of one day Botanical Excursion trip with profile, vision and mission along with new species. They told that expectations from students during one day Botanical excursion regarding basic knowledge of that area.

Dr. Pravin B. Karuna explained about the maintenance, protection, conservation and use of plant species of that area for further generation and ecological balance. After the thorough visit, one hour lunch break at 12.30 pm was taken and the whole team had a with the enjoyment of nature's beauty. The taxonomy expert Dr. Rupali Chougule and Mr. Chetan Chivate were helped students to identify the plants with their scientific name, family, identifying characters

along with their importance. Some of the flowering twigs have been collected for the study. Also, they have explained all the characters of family with the help of flowering twig to the students.

The Botanical excursion helped us in understanding Biodiversity of Masai Pathar-Panhala. The all teachers and students assembled on 4:00 pm at Panhala and started return journey to the Jaysingpur. The students were reached at central bus stand Jaysingpur on 6.30 am. Overall one day Botanical Excursion helped us in understanding Biodiversity of Masai Pathar-Panhala, Kolhapur. The Excursion was very interesting, students participated were interacted with teachers and guide in very well manner, discipline. Students realised that viewing the flora in natural habitat enhances theoretical and practical knowledge. Therefore, the trip successfully inculcated in students the practicality of different theoretical concepts of Botany.





The biodiversity of Masai Pathar –Panhala area is extremely rich in biodiversity. This plateau is also home to many seasonal herbs, Bryophytes and Pteridophytes. The students have observed some plants which are listed below.

Sr. No.	Names of Plants	Family
1	<i>Gentiana</i> sp.L.	Gentianaceae
2	<i>Ipomea indica</i> (Burm.) Merr	Convolvulaceae
3	<i>Commelina benghalensis</i> L.	Commelinaceae
4	<i>Striga gesneriodes</i> (Willd.) Vatke	Orobanchaceae
5	<i>Canscora diffusa</i> (Vahl) R. Br.	Gentianaceae
6	<i>Mimosa pudica</i> L.	Fabaceae
7	<i>Cynotis tuberosa</i> (Roxb.) Schult. & Schult.f.	Commelinaceae
8	<i>Strobilanthes callosa</i> Nees.	Acanthaceae
9	<i>Senecio</i> sp. L.	Asteraceae
10	<i>Rhynchoglossum retusa</i> Blume	Gesneriaceae
11	<i>Callicarpa macrophylla</i> Vahl	Lamiaceae
12	<i>Elephantopus scaber</i> L.	Asteraceae
13	<i>Clerodendron</i> sp. L.	Verbenaceae
14	<i>Persicaria glabra</i> (Willd.) M.Gómez	Polygonaceae
15	<i>Colebrookea oppositifolia</i> Sm.	Lamiaceae
16	<i>Blepharites</i> sp Juss.	Acanthaceae
17	<i>Hyptis</i> sp.Jacq	Lamiaceae
18	<i>Acanthospermum</i> sp. Schrank.	Asteraceae
19	<i>Urena lobata</i> L.	Malvaceae
20	<i>Asystasia gangetica</i> (L.) T. Anderson	Acanthaceae
21	<i>Ceropoegia</i> sps.	Apocynaceae
22	<i>Drosera indica</i> L.	Droseraceae
23	<i>Utricularia</i> sps.	Utriculariaceae
24	<i>Smithia hirsuta</i> Dalzell.	Fabaceae
25	<i>Chlorophytum glaucum</i> Dalzell	Asparagaceae
26	<i>Cyanotis</i> sps.	Commelinaceae
27	<i>Dipcadi</i> sps.	Asparagaceae
28	<i>Rotala</i> sps.	Lythraceae
29	<i>Fimbristylis</i> sps.	Cyperaceae
30	<i>Impatiens balsamina</i> L	Balsaminaceae
31	Lichen sps.	-



Dr. S. D. Umdale
Departmental Coordinator
DBT-Star College Scheme

Dr. S. R. Sabale
Coordinator
DBT-Star College Scheme

Prof. Dr. (Mrs.) M. V. Kale
Head
Department of Botany

Dr. S. A. Manjare
Principal
Jaysingpur College Jaysingpur



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany
Under the aegis of
DBT STAR COLLEGE SCHEME



Report of
One day Hands-on training on
“Preparation of Herbal Medicinal Products”
On
30th September, 2025

Under the aegis of



DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology
Government of India

DBT-STAR COLLEGE SCHEME

AY-2025-26



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR

Department of Botany

Under the aegis of
DBT STAR COLLEGE SCHEME



ACTIVITY REPORT

Year:	2025-26
Name of the Activity:	One day hands-on training on “Preparation of Herbal Medicinal Products”
Date:	30 th September, 2025
Venue:	Department of Botany, Jaysingpur College
Financial Assistance	DBT-STAR COLLEGE SCHEME
Program Coordinator:	Dr. Suraj D. Umdale
Resource persons:	1) Dr. Parag Tomake 2) Dr. Ranjeet Patil
Organised for: College/class/ staff	B. Sc. Students
No. of Participants	32F + 5M = 37
Nature: (e.g. Academic, cultural, sports etc)	Academic Activity
Objectives of the Activity	To inculcate the practical skills, and knowledge for the production of herbal medicinal products, often leading to self-employment opportunities and entrepreneurship.
Short Report (in English)	The department of Botany organised the One day Hands-on training on “Preparation of Herbal Medicinal Products” on 30 th September 2025. A total 37 students and faculty staff were participated training program. The hands-on training provided participants with practical experience in the formulation and manufacturing of various herbal products, such as hair oil, herbal soaps, and cosmetics. The students were enlightened with comprehensive knowledge of medicinal plants and learn how to extract and incorporate their therapeutic properties into products effectively. Training helped students in understanding of the process of developing herbal products and traditional knowledge with modern manufacturing technologies.



One day hands-on training on “Preparation of Herbal Medicinal Products”

30th September, 2025

The Department of Botany, Jaysingpur College, Jaysingpur has organised One day hands-on training program on ‘Preparation of Herbal Medicinal Products’ on 30th September, 2025.

The training programme was started at 10:30am by inauguration with auspicious hands of chief guest of the program, honourable, Prin. Dr. S. A. Manjare and the recourse person, Dr. Parag Tomake. The inaugural speech, Prof. Manisha V. Kale, Head, Department of Botany shared the objectives of the training program and also welcomed the participants. After inauguration, honourable, Prin. Dr. Surat Manjare sir felicitated the recourse persons Dr. Parag Tomake and Dr. Ranjeet Patil chief guest. The Prin. Dr. Surat Manjare welcomed to the dais to deliver the inaugural note and spoke about the importance of Medicinal and Aromatic Plants and how can entrepreneurs make use of the formulations and technologies for developing many plant based products which could uplift and sustain the livelihood of the community. The inauguration function was anchored by Dr. Varsha Dawande, Asst. Prof. Department of Botany and Miss. Purva Kore (B. Sc. III) Student and with the permission of chairperson declared the inauguration function is over.

Session I: Resource Person-1: Dr. Parag Tomake

Dr. Parag Tomake discussed on how herbal products were obtained from medicinal and aromatic crops and have antioxidant properties, antibacterial, antiviral, nematicidal, antifungal, and insecticidal properties. He further explained how these constituents found in medicinal plants were important in making safe and environment friendly products. He also explained the products which were developed through herbal formulations were classified into different groups like mosquito repellents, skin and hair care, hands and surface disinfectants, nutraceuticals, and pain relievers. He has demonstrated the preparation of

Kadha from the Amala. He also demonstrated the preparation of the decoction of adulsa (*Justicia adhatoda*) for cough relief. In his technical session, he also gave the information of phytoconstituents present in herbal medicines. During the preparation of the herbal medicines he interacted with students. The students have asked queries to Dr. Parag Tomake and he has satisfactorily answered the student's questions.

After the first session the short break was taken, the resource person and participants enjoyed refreshment.

Session II: Resource Person-2: Dr. Ranjeet Patil

Dr. Ranjeet Patil gave demonstration of preparation of the triphala churna. During preparation he also explained the medicinal uses of the Hirda (*Terminalia chebula*), Behda (*Terminalia bellirica*), and Arjun Plant (*Terminalia arjuna*). Also, he has given information of the uses of starch as binding material for preparation of tablets from churn. The students have prepared the triphala churna as per the direction given by the Dr. Ranjeet Patil. He has also demonstrated the preparation of herbal hair oil. He used the dried or powdered ingredients like maka (*Eclipta prostrata*), amla (*Phyllanthus emblica*), neem (*Azadirachta indica*), and fenugreek (*Trigonella foenum-graecum*) with a Coconut oil. He has given information of the boiling and continues stirring is necessary for the extraction of the active constituents into the oil from the herbs. After cooling, he filtered the mixture through a fine muslin cloth to obtain the herbal hair oil. After the demonstration of the Herbal oil, students are allowed to prepare the herbal oil as per the direction given by the Dr. Ranjeet Patil. The session was over after the interaction with students.

In Valedictory Function, Prof. Manisha Kale, Head, Department of Botany appreciated proactive involvement of the student participants. She expressed her gratitude towards the resource persons, Dr. Parag Tomake and Dr. Ranjeet Patil who enlightens participants with Herbal medicinal formulations. After her remarks, the certificates were awarded to all the participants, and asked to give oral feedback about the hands on training program. In concluding remarks, Dr. Suraj Umdale, Program Co-ordinator insured about the application of the knowledge received by participants during the Hands on training program. Ms. Shweta Magdum, Asst Prof. Department of Botany given vote of thanks to resource persons for their valuable guidance in the hands on training program and participants.



Aneka Education Society's

JAYSINGPUR COLLEGE JAYSINGPUR

DEPARTMENT OF BOTANY



DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology
Government of India

One day Hands-on training on "Preparation of Herbal Medicinal Products"

Under the Aegis of
DBT-STAR COLLEGE SCHEME

Resource Persons

Dr. Parag Tomake
Homeopathic Consultant,
Tomake Ayurvedic Products



Dr. Ranjeet Patil
Professional Naturopath



❖ Organizing Committee-

Mr. Chetan Chivate
Ms. Shweta Magdum
Dr. Varsha Dawande
Dr. Pravin Karuna
Dr. Rupali Chougale

DATE- 30th September, 2025
TIME: 10:00 am Onwards



Botany Laboratory
Jaysingpur College Jaysingpur



Dr. Suraj Umdale
Department Coordinator
DBT-Star College Scheme

Dr. Sandip Sabale
Coordinator
DBT-Star College Scheme

Prof. Manisha Kale
Head,
Department of Botany

Dr. Surat Manjare
Principal,
Jaysingpur College Jaysingpur

Program Brochure



Certificate

Aneka Education Society's
JAYSINGPUR COLLEGE JAYSINGPUR
|| Affiliated to Shivaji University Kolhapur || Jain Minority College
|| Reaccredited 'A' grade by NAAC || DST-FIST [Level-1] Sponsored

DEPARTMENT OF BOTANY
Organizes
One day Hands-on training on "Preparation of Herbal Medicinal Products"
Under the Aegis of
DBT-STAR COLLEGE SCHEME

PROGRAMME
30th September, 2025 Time: 10:00 am

Welcome & Inauguration	10:00 - 10:30 am	Dr. Varsha R. Dawande Asst. Prof. Department of Botany Jaysingpur College Jaysingpur
Felicitation of Resource person	10:30 - 10:45 am	
Chief Guest	10:45 - 11:00 am	Dr. Surat A. Manjare Principal, Jaysingpur College Jaysingpur
Session-I	11:00 - 12:45 pm	Resource Person-1 Dr. Parag Tomake Homeopathic Consultant, Tomake Ayurvedic Products
Break	12:45 - 01:15 pm	Refreshment
Session-II	01:15 - 02:45 pm	Resource Person-2 Dr. Ranjeet Patil Professional Naturopath
Valedictory Function	02:45 - 03:00 pm	Ms. Shweta A. Magdum Asst. Prof. Department of Botany Jaysingpur College Jaysingpur

Head
Department of Botany
Jaysingpur College, Jaysingpur

Programme Schedule

Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany

DBT-STAR COLLEGE SCHEME
"One day Hands-on training on Preparation of Herbal Medicines"
Date: 30.09.2025

ATTENDANCE SHEET

Sr. No.	Name of student/Faculty	Class/ designation	Sign
1	Priyanshu Suhas Murgande	B.Sc III	[Signature]
2	Pratibha Tanaji Gaikwad	B.Sc III	[Signature]
3	Suketu Vijay Tante	B.Sc III	[Signature]
4	Sakshi Dipak Gavade	B.Sc III	[Signature]
5	Baloni Balish Mane	B.Sc III	[Signature]
6	Radhya Tanaji Gaikwad	B.Sc III	[Signature]
7	Payal Sunaykanti Shinde	B.Sc III	[Signature]
8	Arpita A. Koli	B.Sc III	[Signature]
9	Purnva C. Kore	B.Sc III	[Signature]
10	Sakshi S. Koli	B.Sc III	[Signature]
11	Mitali Anil Kamble	B.Sc I	M.A.K.
12	Yashika Sunil Gharpade	B.Sc I	Y.S.G.
13	Ashwini Basavabai Balopajoi	B.Sc I	Ashwini
14	Sejal Anil Gade	B.Sc I	[Signature]
15	Purviya Tanaji Jadhav	B.Sc I	P.T. Jadhav
16	Charmi Kumar Kumbhar	B.Sc I	[Signature]
17	Ankita Rajkumar Chaugule	B.Sc I	[Signature]
18	Suhani Sunil magaluma	B.Sc I	[Signature]
19	Diksha Adinath Patil	B.Sc III	[Signature]
20			
21			
22			
23			
24			
25			

Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany

DBT-STAR COLLEGE SCHEME
"One day Hands-on training on Preparation of Herbal Medicines"
Date: 30.09.2025

ATTENDANCE SHEET

Sr. No.	Name of student/Faculty	Class/ designation	Sign
26	Shreya Tanaji Pandav	B.Sc I	[Signature]
27	Vaishnavi Chandrakant Gushol	B.Sc I	[Signature]
28	Sandhya Sadashiv Mali	B.Sc I	S.S. Mali
29	Pratibha Sambhaji Bhanuse	B.Sc I	P.B. Bhanuse
30	Purva Suresh Koli	B.Sc I	P.S. Koli
31	Amruta Ganesh Santpal	B.Sc II	[Signature]
32	Hanali Balasa Kamble	B.Sc II	[Signature]
33	Shreya Prakash Sawant	B.Sc II	[Signature]
34	Ashata Malhari Kamble	B.Sc II	[Signature]
35	Komal Dipak Sawant	B.Sc II	K.D.
36	Mali Tanmay Anasa	B.Sc II	[Signature]
37	Chavan Vijay Chaugule	B.Sc II	[Signature]
38	Harshad Anant Arundhat	B.Sc II	[Signature]
39	Kothawale Siddhant Namasa	B.Sc II	[Signature]
40	Mali Vikas Anil	B.Sc II	[Signature]
41	Tanvi Bhanubali Kurade	B.Sc I	[Signature]
42	Sakshi Manu Shelake	B.Sc I	S.M.S.
43	Snehal Hanmant Kavane	B.Sc I	[Signature]
44			
45			
46			
47			
48			
49			
50			

Attendance of Participants

Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Estd. June 1964

† Affiliated to Shivaji University, Kolhapur † Jain Minority College
 † Recognized at 'A' Grade (NAAC) † DST - FIRST [Level - I] Sponsored
 Address : Shri-Wadi Road, Jaysingpur - 416 101, Dist. Kolhapur, State - Maharashtra, India
 Pts. Dr. S. A. Manjare † Tel. (0) 23222 - 225381 / 481 † Website - www.jaysingpurcollege.edu.in † E-mail - jpscollegejps@gmail.com

Ref. No. AES/JC/2025-26/ Date: 30.09.2025

To,
Dr. Parag Tomake
Homeopathic Consultant,
Tomake Ayurvedic Products


Subject: Letter of Appreciation

Respected Sir,

We are hearty thankful to you for accepting our invitation as a resource person and providing valuable guidance in **One day Hands-on training on "Preparation of Herbal Medicinal Products"** organized by Department of Botany, Jaysingpur College Jaysingpur on **30th September, 2025**.

Expecting kind Co-operation in future

With Best Regards,


 Prof. (Dr) Mrs. M.V. Kale
Head
 Department Of Botany
 Jaysingpur College, Jaysingpur

Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Estd. June 1964

† Affiliated to Shivaji University, Kolhapur † Jain Minority College
 † Recognized at 'A' Grade (NAAC) † DST - FIRST [Level - I] Sponsored
 Address : Shri-Wadi Road, Jaysingpur - 416 101, Dist. Kolhapur, State - Maharashtra, India
 Pts. Dr. S. A. Manjare † Tel. (0) 23222 - 225381 / 481 † Website - www.jaysingpurcollege.edu.in † E-mail - jpscollegejps@gmail.com

Ref. No. AES/JC/2025-26/e-mail Date: 30.09.2025

To,
Dr. Ranjit Patil
Professional Naturopath
Jaysingpur, MS, India


Subject: Letter of Appreciation

Respected Sir,

We are hearty thankful to you for accepting our invitation as a resource person and providing valuable guidance in **One day Hands-on training on "Preparation of Herbal Medicinal Products"** organized by Department of Botany, Jaysingpur College Jaysingpur on **30th September, 2025**.

Expecting kind Co-operation in future

With Best Regards,


 Prof. (Dr) Mrs. M.V. Kale
Head
 Department Of Botany
 Jaysingpur College, Jaysingpur

Appreciation letter



Shot on OnePlus
© Suraj Umale



Latitude: 16.770274
Longitude: 74.557785
Elevation: 578.75±16.1 m
Accuracy: 5.1 m
Time: 30-09-2025 10:57
Address: Apte Colony, Jaysingpur, Maharashtra, India
Note: Botany- Hands on training program

Powered by NoteCam



Latitude: 16.770236
Longitude: 74.557723
Elevation: 578.75±11.9 m
Accuracy: 4.799 m
Time: 30-09-2025 10:50
Address: Apte Colony, Jaysingpur, Maharashtra, India
Note: Botany- Hands on training program



Latitude: 16.770241
Longitude: 74.557723
Elevation: 578.25±4.43 m
Accuracy: 5.126 m
Time: 30-09-2025 10:50
Address: Apte Colony, Jaysingpur, Maharashtra, India
Note: Botany- Hands on training program



Latitude: 16.77026
Longitude: 74.557716
Elevation: 578.75±3.97 m
Accuracy: 23.53 m
Time: 30-09-2025 10:49
Address: Apte Colony, Jaysingpur, Maharashtra, India
Note: Botany- Hands on training program



Latitude: 16.770225
Longitude: 74.557713
Elevation: 578.25±11.7 m
Accuracy: 8.9 m
Time: 30-09-2025 10:52
Address: Apte Colony, Jaysingpur, Maharashtra, India
Note: Botany- Hands on training program



Latitude: 16.770239
Longitude: 74.557727
Elevation: 578.25±3.7 m
Accuracy: 4.712 m
Time: 30-09-2025 10:50
Address: Apte Colony, Jaysingpur, Maharashtra, India
Note: Botany- Hands on training program



Latitude: 16.770239
Longitude: 74.557727
Elevation: 578.25±3.7 m
Accuracy: 4.712 m
Time: 30-09-2025 10:50
Address: Apte Colony, Jaysingpur, Maharashtra, India
Note: Botany- Hands on training program

Inauguration and Felicitation of Hands on Training Program



Glimpses of Hands-on Training Program



Latitude: 16.770187
Longitude: 74.557751
Elevation: 578.754677 m
Accuracy: 10.98 m
Time: 30-09-2025 11:54
Address: Apte Colony, Jaysingpur, Maharashtra, India
Note: Botany- Hands on training program



Latitude: 16.770211
Longitude: 74.557757
Elevation: 575.851152 m
Accuracy: 7.153 m
Time: 30-09-2025 12:40
Address: Apte Colony, Jaysingpur, Maharashtra, India
Note: Botany- Hands on training program



Latitude: 16.770202
Longitude: 74.557757
Elevation: 578.754677 m
Accuracy: 23.76 m
Time: 30-09-2025 11:58
Address: Apte Colony, Jaysingpur, Maharashtra, India
Note: Botany- Hands on training program



Latitude: 16.770213
Longitude: 74.557744
Elevation: 575.851122 m
Accuracy: 4.096 m
Time: 30-09-2025 12:42
Address: Apte Colony, Jaysingpur, Maharashtra, India
Note: Botany- Hands on training program



Note cam title
Address: Jaysingpur, Maharashtra, India
Latitude: 16.770202
Longitude: 74.557757
Altitude: 578.75 m
Date: 09/26/2025 11:06 am
Accuracy: 18.8 meter
Time since: 101
Note: Hands on training Botany



Latitude: 16.770227
Longitude: 74.557847
Elevation: 575.851171 m
Accuracy: 20.86 m
Time: 30-09-2025 12:37
Address: Apte Colony, Jaysingpur, Maharashtra, India
Note: Botany- Hands on training program



Latitude: 16.770247
Longitude: 74.557726
Elevation: 578.254316 m
Accuracy: 24.82 m
Time: 30-09-2025 12:22
Address: Apte Colony, Jaysingpur, Maharashtra, India
Note: Botany- Hands on training program



Latitude: 16.770239
Longitude: 74.557745
Elevation: 578.254443 m
Accuracy: 5.77 m
Time: 30-09-2025 12:22
Address: Apte Colony, Jaysingpur, Maharashtra, India
Note: Botany- Hands on training program



Latitude: 16.770228
Longitude: 74.557758
Elevation: 578.254287 m
Accuracy: 4.16 m
Time: 30-09-2025 12:19
Address: Apte Colony, Jaysingpur, Maharashtra, India
Note: Botany- Hands on training program



Latitude: 16.770226
Longitude: 74.557765
Elevation: 578.254405 m
Accuracy: 5.445 m
Time: 30-09-2025 12:17
Address: Apte Colony, Jaysingpur, Maharashtra, India
Note: Botany- Hands on training program

Glimpses of Student's Feedback, Certificate distribution & Valedictory function

Dr. S. D. Umdale
Departmental Coordinator
DBT-Star College Scheme

Dr. S. R. Sabale
Coordinator
DBT-Star College Scheme

Prof. Dr. (Mrs.) M. V. Kale
Head
Department of Botany

Dr. S. A. Manjare
Principal
Jaysingpur College Jaysingpur



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany
Under the aegis of
DBT STAR COLLEGE SCHEME



Report of
“Floral Pageant- Flower Decoration Activity”

On
8th October, 2025

AY-2025-26



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR

Department of Botany

Under the aegis of
DBT STAR COLLEGE SCHEME



ACTIVITY REPORT

Year:	2025-26
Name of the Activity:	“Floral Pageant- Flower Decoration Activity”
Date:	8 th October, 2025
Venue:	Department of Botany, Jaysingpur College
Financial Assistance	DBT-STAR COLLEGE SCHEME
Program Coordinator:	Dr. Suraj D. Umdale
Resource persons:	-
Organised for: College/class/ staff	B. Sc. Students
No. of Participants	27F + 02M = 29 48F + 27M = 75
Nature: (e.g. Academic, cultural, sports etc)	Skill based Co-Curricular Activity
Objectives of the Activity	To provide a platform for student participants to showcase their creativity, artistic talents, and aesthetic sense through the art of floral design/decoration.
Short Report (in English)	The department of Botany organised a “Floral Pageant- Flower Decoration Activity” on 8 th October 2025. A total 104 (29+75) students and faculty staff were participated in the activity. The floral activity provided student participants to showcase their creativity, artistic talents, and aesthetic sense through the art of floral design/decoration. The students were prepared beautiful flower pots, bouquets, button-holes, flower baskets, Corsages, Floral Wreaths, Garlands, Veni and Gajara. The activity fostered an appreciation for the beauty of nature, and enhances creative and aesthetic skills. It also aimed to develop presentation skills and, in some cases, explore potential livelihood opportunities in floral craft



“Floral Pageant- Flower Decoration Activity”

8th October, 2025

The Department of Botany, Jaysingpur College, Jaysingpur has organised a “**Floral Pageant- Flower Decoration Activity**” on 8th October 2025 for students.

The activity was started at 11:00 am by inauguration with auspicious hands of chief guest of the program, honourable, Prin. Dr. S. A. Manjare; Dr. (Mrs.) S. S. Mahajan, Incharge, Faculty of Science; Prof. Dr. (Mrs.) V. V. Chougule, Incharge, Faculty of Humanities and Dr. (Mrs.) S. R. Nakate Incharge, Faculty of Commerce. In the inaugural speech, Dr. Suraj Umdale, Asst. Prof., Department of Botany welcomed the participants and dignitaries and shared the objectives of the activity and also, motivated the students. After inauguration, Dr. Suraj Umdale felicitated honourable, Prin. Dr. Surat Manjare; Dr. (Mrs.) S. S. Mahajan; Prof. Dr. (Mrs.) V. V. Chougule; Dr. (Mrs.) S. R. Nakate. The Prin. Dr. Surat Manjare spoke about the importance of activity and how student entrepreneurs can be come forward through such activities. The function was anchored by Miss. Purva Kore (B. Sc. III) Student. Dr. Varsha Dawande, Asst. Prof. Department of Botany has given vote of thanks and with permission of chairperson declared the inauguration is over and exhibition is open for all.

The students were prepared beautiful flower pots, bouquets, button-holes, flower baskets, Corsages, Floral Wreaths, Garlands, Veni and Gajara. The activity fostered an appreciation for the beauty of nature, and enhances creative and aesthetic skills.

The judges assessed the floral arrangements based on the overall idea, adherence to the theme, creativity, colour combination, and final presentation of the flowers and finalized achievers. The activity developed presentation skills of the students and, also explored potential opportunities and entrepreneurs skills in floral craft.



Anekant Education Society's
JAYSINGPUR COLLEGE JAYSINGPUR

- Affiliated to Shivaji University Kolhapur
- Jain Minority College
- Reaccredited 'A' grade by NAAC
- DST-FIST [Level-1] Sponsored
- DBT-STAR COLLEGE SCHEME



DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology
Government of India

DEPARTMENT OF BOTANY

Organizes

Floral Pageant-Flower Decoration Activity"

Under the Aegis of

DBT-STAR COLLEGE SCHEME

DATE

08th October, 2025

TIME

11:00 am to 1:00pm

Venue

DEPARTMENT OF BOTANY

Organizing Committee

Dr. V. R. Dawande

Program Coordinator
Department of Botany

Dr. P. B. Karuna
Asst. Prof,
Department of Botany

Ms. S. A. Magdum
Asst. Prof,
Department of Botany

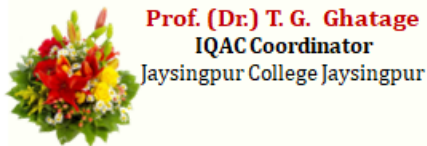
Mr. C. R. Chivate
Asst. Prof,
Department of Botany

Dr. R. N. Chougule
Asst. Prof,
Department of Botany

Dr. S. D. Umdale
Asst. Prof,
Department of Botany

Dr. S. R. Sabale
Coordinator
DBT-Star College Scheme

Prof. (Mrs.) M. V. Kale
Head,
Department of Botany



Prof. (Dr.) T. G. Ghatage
IQAC Coordinator
Jaysingpur College Jaysingpur

Prof. (Mrs.) S. S. Mahajan
Head,
Faculty of Science

Dr. S. A. Manjare
Principal,
Jaysingpur College Jaysingpur



Program Brochure



DBT-STAR COLLEGE SCHEME

"Flower Decoration Activity-Floral Pageant"

Date: 08.10.2025

ATTENDANCE SHEET

Sr. No.	Name of student/Faculty	Class/ designation	Sign
1	Zara. Maya. Gavande	B.Sc.III	Zara
2	Payal sudhant shinde	B.Sc.III	Payal
3	Pradnya Tanaji Gaikwad	B.Sc.III	Pradnya
4	Bhakti Suresh Murgunde	B.Sc.III	Bhakti
5	Pratiksha Tanaji Gaikwad	B.Sc.III	Pratiksha
6	Diksha Adinath Patil	B.Sc.III	Diksha
7	Sakshi Vijay Tandale	B.Sc.III	Sakshi
8	Sakshi Dipak Gavade	B.Sc.III	Sakshi
9	Purva Chandrakant Kore	B.Sc.III	Purva
10	Sakshi Sanjay Koli	B.Sc.III	Sakshi
11	Arpita Anil Koli	B.Sc.III	Arpita
12	Anamv Ingaule	B.Sc.I	Anamv
13	Pratibha Kavayabh Mane	B.Sc.I	Pratibha
14	Saijal Srikant Murgunde	B.Sc.I	Saijal
15	Piyush Gajanan Murgunde	B.Sc.I	Piyush
16	Pronav Vijay Dongare	B.Sc.I	Pronav
17	Atharv Ashok Kupade	B.Sc.I	Atharv
18	Rohan Anil Bhanuwar	B.Sc.III	Rohan
19	Shradha Sanjay Patil	B.Sc.I	Shradha
20	Sybil Amal Gode	B.Sc.I	Sybil
21	Sheuti Santosh Devatale	B.Sc.I	Sheuti
22	Anvita Anandkumar Hanbar	B.Sc.II	Anvita
23	Tanmay Anasa Mali	B.Sc.II	Tanmay
24	Nilesh Gopi Kamble	B.Sc.II	Nilesh
25	Vedhastree S. Kamble	B.Sc.III	Vedhastree

3



DBT-STAR COLLEGE SCHEME

"Flower Decoration Activity-Floral Pageant"

Date: 08.10.2025

ATTENDANCE SHEET

Sr. No.	Name of student/Faculty	Class/ designation	Sign
26	Shital Sunil Suryavanshi	B.Sc-I	Shital
27	Siddhi Vijay Sutar	B.Sc-I	Siddhi
28	Punam Vijay Tandale	11th	Punam
29	Mrunali Prakash Bhui	11th	Mrunali
30	Tanisha Rajendra Kamble	11th	Tanisha
31	Pratima Sunil Gaikwad	11th	Pratima
32	Yashada Prakash Aulade	B.Sc-I	Y.P.Aulade
33	Revati Sanjay Mane	B.Sc.I	Revati
34	Chetan Sanjay Kumbhar	B.Sc.I	Chetan
35	Yagita Sunil Gharpade	B.Sc.I	T.S.G
36	Savidhan Suryakant Kolap	B.Sc.I	S.S.Kolap
37	Atharv Ashok Kupade	B.Sc.I	Atharv
38	Yagita Dipak Patil	B.Sc.I	Yagita
39	Vijayma Ram Manojre	B.Sc.I	Vijayma
40	Piyush Ranadhir Lodaye	B.Sc.I	Piyush
41	Pronav Sondeep Mane	B.Sc-I	Pronav
42	Pronav Vijay Dongare	B.Sc-I	Pronav
43	Siddhant Pramod Kamble	B.Sc.I	Siddhant
44	Sanjana Sadashiv Mali	B.Sc.I	S.S.Mali
45	Suhani Sunil Magdum	B.Sc-I	Suhani
46	Piyush G. Heware	B.Sc-I	Piyush
47	Sheuti Santosh Devatale	B.Sc.I	S.S.O.
48	Ashwini Basava Eaj Balapagol	B.Sc-I	Ashwini
49	Sybil Amal Gode	B.Sc.I	Sybil
50	Vaishnavi Chandrakant Guvav	B.Sc.I	Vaishnavi

1



DBT-STAR COLLEGE SCHEME

"Flower Decoration Activity-Floral Pageant"

Date: 08.10.2025

ATTENDANCE SHEET

Sr. No.	Name of student/Faculty	Class/ designation	Sign
51	Gandharv Anil Patil	B.Sc.I	G.A.Patil
52	Sakshi Maruti Shetake	B.Sc.I	S.M.S
53	Shreya Tanaji Pandav	B.Sc-I	Shreya
54	Ashita Ananda Kozari	B.Sc-I	A.A.Kozari
55	Siddhi Vijay Sutar	B.Sc.I	Siddhi
56	Shivam Sunil Kumbhar	B.Sc.I	S.S.Kumbhar
57	Tanvi Bahubali Kurade	B.Sc.I	Tanvi
58	Navdeep N. Komble	B.Sc.I	N.N.Komble
59	Anamv M. Ingaule	B.Sc.I	Anamv
60	Shravani B. Patil	B.Sc.I	Shravani
61	Bhumika S. Bhanuse	B.Sc.I	Bhumika
62	Ankita R. Chaugule	B.Sc-I	Ankita
63	Gandharv A. Patil	B.Sc-I	G.A.Patil
64	Sakshi Maruti Shetake	B.Sc.I	S.M.S
65	Siddhi Vijay Sutar	B.Sc.I	Siddhi
66	Shivam Sunil Kumbhar	B.Sc-I	S.S.Kumbhar
67	Prathamesh Sandya Mali	B.Sc-I	Prathamesh
68	Pronav Prakash Keripale	B.Sc.I	Pronav
69	Ashita Ananda Kozari	B.Sc-I	A.A.Kozari
70	Purva Suresh Koli	B.Sc.I	P.S.Koli
71	Snehal Hanmant Kavane	B.Sc.I	Snehal
72	Pratiksha Ganesh Kesikar	B.Sc.I	Pratiksha
73	Vijay pandurang nandikar	B.Sc.I	Vijay
74	Om Sunil Khatooslu	B.Sc.I	Om
75	Dhohastree Kiran Kamble	B.Sc.I	D.K.Kamble

5



DBT-STAR COLLEGE SCHEME

"Flower Decoration Activity-Floral Pageant"

Date: 08.10.2025

LIST OF PARTICIPANTS

Sr. No.	Name of student/Faculty	Class/ designation	Sign
1	Rasika Sanjay Koli	B.Sc-II	R.Koli
2	Manali Balasa Kamble	B.Sc-II	Manali
3	Anvita Ganesh Sanjayal	B.Sc.II	Anvita
4	Komal Dipak Sawant	B.Sc.II	Komal
5	Shreya Prakash Savant	B.Sc.II	Shreya
6	Akshita Malhari Kamble	B.Sc.II	Akshita
7	Aqsa Shabbir Jaina	B.Sc.II	Aqsa
8	Habiba SahebPasha Peerzade	B.Sc.II	Habiba
9	Ankita Shrikanta Ramesh Magdum	B.Sc.II	Ankita
10	Akanksha Mohan Patil	B.Sc.II	Akanksha
11	Sakshi Vijay Tandale	B.Sc.III	Sakshi
12	Sakshi Dipak Gavade	B.Sc.III	Sakshi
13	Siddhant Ganaiappa Gattadare	B.Sc.II	Siddhant
14	Tajal Diganbar Rave	B.Sc.II	Tajal
15	Tanmay Anasa mali	B.Sc.II	Tanmay
16	Anvita Anandkumar Hanbar	B.Sc.II	Anvita
17	Purva Chandrakant Kore	B.Sc.III	Purva
18	Sakshi Sanjay Koli	B.Sc.III	Sakshi
19	Arpita Anil Koli	B.Sc.III	Arpita
20	Pradnya Tanaji Gaikwad	B.Sc.III	Pradnya
21	Pratiksha Tanaji Gaikwad	B.Sc.III	Pratiksha
22	Bhakti S. Murgunde	B.Sc.III	Bhakti
23	Diksha A. Patil	B.Sc.III	Diksha
24	Payal S. Shinde	B.Sc.III	Payal
25	Ankita Shashikant Mane	B.Sc.II	A.S.MANE

Attendance of Participants



Latitude: 16.77024
Longitude: 74.55777
Elevation: 578.85+12.5 m
Accuracy: 8.818 m
Time: 08-10-2025 12:22
Address: Apte Colony Jaysingpur, Maharashtra, India
Note: Botany- Floral Pageant - Flower decoration activity 2025
Powered by NoteCam



Latitude: 16.770243
Longitude: 74.557789
Elevation: 578.85+12.1 m
Accuracy: 19.73 m
Time: 08-10-2025 12:17
Address: Nagarpalika Nokar Housing Society, Swapannagari Jaysingpur, Maharashtra 416101, India
Note: Botany- Floral Pageant - Flower decoration activity 2025
Powered by NoteCam



Latitude: 16.770234
Longitude: 74.557785
Elevation: 578.35+20.8 m
Accuracy: 9.217 m
Time: 08-10-2025 12:05
Address: Nagarpalika Nokar Housing Society, Swapannagari Jaysingpur, Maharashtra 416101, India
Note: Botany- Floral Pageant - Flower decoration activity 2025
Powered by NoteCam



Latitude: 16.770239
Longitude: 74.557773
Elevation: 578.35+12.4 m
Accuracy: 88.44 m
Time: 08-10-2025 12:00
Address: Nagarpalika Nokar Housing Society, Swapannagari Jaysingpur, Maharashtra 416101, India
Note: Botany- Floral Pageant - Flower decoration activity 2025
Powered by NoteCam



Latitude: 16.770238
Longitude: 74.557775
Elevation: 582.45+20.7 m
Accuracy: 4.595 m
Time: 08-10-2025 12:03
Address: Nagarpalika Nokar Housing Society, Swapannagari Jaysingpur, Maharashtra 416101, India
Note: Botany- Floral Pageant - Flower decoration activity 2025
Powered by NoteCam



Latitude: 16.770237
Longitude: 74.557802
Elevation: 578.85+22.0 m
Accuracy: 7.133 m
Time: 08-10-2025 12:06
Address: Nagarpalika Nokar Housing Society, Swapannagari Jaysingpur, Maharashtra 416101, India
Note: Botany- Floral Pageant - Flower decoration activity 2025
Powered by NoteCam



Latitude: 16.770226
Longitude: 74.557823
Elevation: 578.85+9.24 m
Accuracy: 4.202 m
Time: 08-10-2025 12:42
Address: Nagarpalika Nokar Housing Society, Swapannagari Jaysingpur, Maharashtra 416101, India
Note: Botany- Floral Pageant - Flower decoration activity 2025
Powered by NoteCam



Latitude: 16.770238
Longitude: 74.557818
Elevation: 578.35+20.7 m
Accuracy: 8.823 m
Time: 08-10-2025 12:04
Address: Nagarpalika Nokar Housing Society, Swapannagari Jaysingpur, Maharashtra 416101, India
Note: Botany- Floral Pageant - Flower decoration activity 2025
Powered by NoteCam



Latitude: 16.77023
Longitude: 74.557782
Elevation: 578.85+5.49 m
Accuracy: 11.93 m
Time: 08-10-2025 10:43
Address: Nagarpalika Nokar Housing Society, Swapannagari Jaysingpur, Maharashtra 416101, India
Note: Botany- Floral Pageant - Flower decoration activity 2025
Powered by NoteCam



Latitude: 16.770243
Longitude: 74.557771
Elevation: 578.35+4.37 m
Accuracy: 5.346 m
Time: 08-10-2025 10:47
Address: Nagarpalika Nokar Housing Society, Swapannagari Jaysingpur, Maharashtra 416101, India
Note: Botany- Floral Pageant - Flower decoration activity 2025
Powered by NoteCam



Latitude: 16.770222
Longitude: 74.557789
Elevation: 578.85±9.66 m
Accuracy: 9.393 m
Time: 08-10-2025 12:32
Address: Nagarpalika Noker Housing Society, Swapannagari, Jaysingpur, Maharashtra 416101, India
Note: Botany - Floral Pageant - Flower decoration activity 2025
Powered by NoteCam



Latitude: 16.77022
Longitude: 74.557794
Elevation: 578.85±4.43 m
Accuracy: 3.79 m
Time: 08-10-2025 12:30
Address: Nagarpalika Noker Housing Society, Swapannagari, Jaysingpur, Maharashtra 416101, India
Note: Botany - Floral Pageant - Flower decoration activity 2025
Powered by NoteCam



Latitude: 16.770198
Longitude: 74.557807
Elevation: 578.85±10.4 m
Accuracy: 12.46 m
Time: 08-10-2025 12:42
Address: Nagarpalika Noker Housing Society, Swapannagari, Jaysingpur, Maharashtra 416101, India
Note: Botany - Floral Pageant - Flower decoration activity 2025
Powered by NoteCam



Latitude: 16.770202
Longitude: 74.557759
Elevation: 578.35±12.5 m
Accuracy: 7.226 m
Time: 08-10-2025 12:43
Address: Nagarpalika Noker Housing Society, Swapannagari, Jaysingpur, Maharashtra 416101, India
Note: Botany - Floral Pageant - Flower decoration activity 2025
Powered by NoteCam



Latitude: 16.770198
Longitude: 74.557807
Elevation: 578.85±10.4 m
Accuracy: 12.46 m
Time: 08-10-2025 12:42
Address: Nagarpalika Noker Housing Society, Swapannagari, Jaysingpur, Maharashtra 416101, India
Note: Botany - Floral Pageant - Flower decoration activity 2025
Powered by NoteCam



Latitude: 16.770201
Longitude: 74.557772
Elevation: 578.35±12.6 m
Accuracy: 7.326 m
Time: 08-10-2025 12:43
Address: Nagarpalika Noker Housing Society, Swapannagari, Jaysingpur, Maharashtra 416101, India
Note: Botany - Floral Pageant - Flower decoration activity 2025
Powered by NoteCam



Latitude: 16.770244
Longitude: 74.557791
Elevation: 578.35±9.3 m
Accuracy: 7.451 m
Time: 08-10-2025 12:44
Address: Nagarpalika Noker Housing Society, Swapannagari, Jaysingpur, Maharashtra 416101, India
Note: Botany - Floral Pageant - Flower decoration activity 2025
Powered by NoteCam



Latitude: 16.770241
Longitude: 74.557794
Elevation: 578.35±8.34 m
Accuracy: 6.991 m
Time: 08-10-2025 12:44
Address: Nagarpalika Noker Housing Society, Swapannagari, Jaysingpur, Maharashtra 416101, India
Note: Botany - Floral Pageant - Flower decoration activity 2025
Powered by NoteCam



Latitude: 16.770242
Longitude: 74.557794
Elevation: 578.85±20.7 m
Accuracy: 7.056 m
Time: 08-10-2025 12:44
Address: Nagarpalika Noker Housing Society, Swapannagari, Jaysingpur, Maharashtra 416101, India
Note: Botany - Floral Pageant - Flower decoration activity 2025
Powered by NoteCam



Latitude: 16.770246
Longitude: 74.557806
Elevation: 578.85±20.8 m
Accuracy: 7.153 m
Time: 08-10-2025 12:44
Address: Nagarpalika Noker Housing Society, Swapannagari, Jaysingpur, Maharashtra 416101, India
Note: Botany - Floral Pageant - Flower decoration activity 2025
Powered by NoteCam



Glimpses of "Floral Pageant- Flower Decoration Activity"

Dr. S. D. Umdale

Dr. S. D. Umdale
Departmental Coordinator
DBT-Star College Scheme

Dr. S. R. Sabale

Dr. S. R. Sabale
Coordinator
DBT-Star College Scheme

Prof. Dr. (Mrs.) M. V. Kale

Prof. Dr. (Mrs.) M. V. Kale
Head
Department of Botany

Dr. S. A. Manjare

Dr. S. A. Manjare
Principal
Jaysingpur College Jaysingpur



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany
Under the aegis of
DBT STAR COLLEGE SCHEME



Report of
Guest Lecture -
“Seed technology-Principal of Vigour & Viability Testing”

On
09th October, 2025

Under the aegis of



DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology
Government of India

DBT-STAR COLLEGE SCHEME

AY-2025-26



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR

Department of Botany

Under the aegis of
DBT STAR COLLEGE SCHEME



ACTIVITY REPORT

Year:	2025-26
Name of the Activity:	A guest lecture on “Seed technology-Principal of Vigour & Viability Testing”
Date:	09 th October, 2025
Venue:	Department of Botany, Jaysingpur College
Financial Assistance	DBT-STAR COLLEGE SCHEME
Program Coordinator:	Dr. Suraj D. Umdale
Resource persons:	Dr. Ravish Choudhary Division of Seed Science & Technology, ICAR-Indian Agricultural Research Institute (IARI) New Delhi-110012, INDIA
Organised for: College/class/ staff	B. Sc. Students
No. of Participants	60F + 21M = 81 (Online)
Nature: (e.g. Academic, cultural, sports etc)	Co-curricular Activity
Objectives of the Activity	Student should understand the knowledge of the seed technology and also the practical, commercial, and research applications in the modern agriculture.
Short Report (in English)	The department of Botany organised a guest lecture on “Seed technology-Principal of Vigour & Viability Testing” on 09 th October 2025 at 11:30 am via. Online mode (Google Meet). A total 81 students and faculty staff was attended the lecture. During this lecture Dr. Ravish Choudhary explained the importance of seed vigour and seed viability in seed testing. The lecture helped students in understanding of the process of seed viability tests and knowledge of modern experiment in seed testing used in modern agriculture.



A guest lecture on “Seed technology-Principal of Vigour & Viability Testing”

09th October, 2025

The department of Botany organised a guest on “**Seed technology-Principal of Vigour & Viability Testing**” on 09th October 2025 at 11:30 am via. Online mode (Google Meet). A total 81 students and faculty staff was attended the lecture.

The lecture was started at 11:30 am by welcome of the resource person Dr. Ravish Choudhary, Division of Seed Science & Technology, ICAR-Indian Agricultural Research Institute (IARI), New Delhi. Dr. Suraj Umdale Asst. Prof., Department of Botany and the program coordinator welcome the resource person Dr. Ravish Choudhary, honourable principal Dr. Surat Manjare, Prof. Manisha V. Kale, Head, Department of Botany, Dr. Sandip Sabale, Coordinator, DBT-STAR College scheme and the student participants. After welcome note, he had given the brief introduction of the resource person, Dr. Ravish Choudhary and shared the objectives of the program.

The lecture was started with explanation of the seed and Dr. Ravish explained the concept of seed vigour and seed viability. He beautifully explained how seed vigour play important role in the seed viability. During his lecture, he had given information of the various tests performed to test the vigour such as, conductivity test, tertazolium test (TTC), radicle emergence test and germination test. Also, he told that, seed vigor is a very important quality parameter and several testing methods are available to check seeds. He had given his view on the need for development of standards at the national level Automation and AI usage.

After the talk, Prof. Manisha Kale, Head, Department of Botany appreciated the wonderful lecture given by Dr. Ravish Choudhary. Dr. Sandip Sabale also expressed her gratitude towards the resource persons, Dr. Ravish Choudhary for guiding students. The online feedback about the guest lecture was taken via Google Forms from the students. In concluding remarks, Mr. Chetan Chivate, Asst Prof. Department of Botany gave vote of thanks to resource persons for their valuable guidance, Dr. Suraj Umdale, Program coordinator, Honourable principal Dr. Surat Manjare, Prof. Manisha V. Kale, Head, Department of Botany, Dr. Sandip Sabale, Coordinator, DBT-STAR College scheme and Dr. Garima Gupta, national Advisor, DBT-STAR COLLEGE SCHEME, Department of Biotechnology (DBT) and students participants. With permission of the Chairperson of the program he declared the program is over.



Anekant Education Society's
JAYSINGPUR COLLEGE JAYSINGPUR
DEPARTMENT OF BOTANY



DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology
Government of India

Organizes lecture on,
"Seed technology-Principals of Vigour & Viability Testing"

Under the Aegis of
DBT-STAR COLLEGE SCHEME

RESOURCE PERSON



Dr. Ravish Choudhary
Division of Seed Science & Technology,
ICAR-Indian Agricultural Research Institute (IARI)
New Delhi-110012, INDIA

DATE- 9th October, 2025

TIME: 11: 30 am Onwards



❖ **Organizing Committee-**

Mr. Chetan Chivate
Ms. Shweta Magdum
Dr. Varsha Dawande
Dr. Pravin Karuna
Dr. Rupali Chougule



Google Meet

Online Lecture link-

<https://meet.google.com/cbd-xevw-zar>

Feedback form Link-

<https://forms.gle/JdAUXe4m6aH1rNoY9>


Dr. Suraj Umdale
Department Coordinator
DBT-Star College Scheme

Dr. Sandip Sabale
Coordinator
DBT-Star College Scheme

Prof. Manisha Kale
Head,
Department of Botany

Dr. Surat Manjare
Principal,
Jaysingpur College Jaysingpur

Program Brochure

 Anekant Education Society's
Estd. June 1964
JAYSINGPUR COLLEGE, JAYSINGPUR
Affiliated to Shivaji University, Kolhapur | Jain Minority College
Reaccredited at 'A' Grade (NAAC) | DST - FST [Level - I] Sponsored
Address : Shirai-Wadi Road, Jaysingpur - 416 101, Dist. Kolhapur, State - Maharashtra, India
Prin. Dr. S. A. Manjare | Tel. (0) 02322 - 225381 / 481 | Website - www.jaysingpurcollege.edu.in | E-mail - jpscollegejps@gmail.com

Ref. No. AES/ICJ/2025-26/e-mail Date:- 30.09.2025

To,
Dr. Ravish Choudhary
Division of Seed Science & Technology,
ICAR-Indian Agricultural Research Institute (IARI)
New Delhi-110012, INDIA


Subject: Invitation as resource person for "Popular Lecture"



Respected sir,

With reference to above mentioned subject, it gives us an immense pleasure to invite you to as resource person for **"Popular Lecture"** organized by Department of Botany, Jaysingpur College Jaysingpur on 9th October, 2025. As you are expert in subject seed technology, we appreciate to here you on above topic. Kindly accept the same and enrich the knowledge of our students.

Date of Program: 9th October, 2025

With Best Regards,


Prof. (Dr) Mrs. M.V. Kale
Head
Department Of Botany
Jaysingpur College, Jaysingpur



PRINCIPAL
Jaysingpur College, Jaysingpur

 Anekant Education Society's
Estd. June 1964
JAYSINGPUR COLLEGE, JAYSINGPUR
Affiliated to Shivaji University, Kolhapur | Jain Minority College
Reaccredited at 'A' Grade (NAAC) | DST - FST [Level - I] Sponsored
Address : Shirai-Wadi Road, Jaysingpur - 416 101, Dist. Kolhapur, State - Maharashtra, India
Prin. Dr. S. A. Manjare | Tel. (0) 02322 - 225381 / 481 | Website - www.jaysingpurcollege.edu.in | E-mail - jpscollegejps@gmail.com

Ref. No. AES/ICJ/2025-26/e-mail Date:- 09.10.2025

To,
Dr. Ravish Choudhary
Division of seed Science & Technology,
ICAR-Indian Agricultural Research Institute (IARI)
New Delhi-110012, INDIA

Subject: Letter of Appreciation

Respected Sir,

We are hearty thankful to you for accepting our invitation as a resource person and providing valuable guidance in **online guest Lecture "Seed Technology-Principle of Vigour & Viability Testing"** organized by Department of Botany, Jaysingpur College Jaysingpur under aegis of DBT-STAR COLLEGE SCHEME on **Thursday, 9th October, 2025** at 11:30 am.

Expecting kind Co-operation in future

With Best Regards,



Prof. (Dr) Mrs. M.V. Kale
Head
Department Of Botany
Jaysingpur College, Jaysingpur


Dr. S. R. Sabale
Coordinator
DBT-Star College Scheme


PRINCIPAL
Jaysingpur College, Jaysingpur

Invitation Letter

Appreciation Letter

Google Meet - Meet - cbd-xew-zar

Suraj Umdale (Presenting)

Vedhashree K... Prathmesh Ko... Botany Jaysin... Chetan Rajendra Chivata Manisha Kale Ankita Choug... Sandip Sa...

People

Search for people

IN THE MEETING

Contributors 68

Sandip Sabale (You) Akanksha Patil Akashata Birajdar Amruta Sutar Aniket Harbar Ankita Chougule Ankita Mane Archana Adamuthe Arpita Koli ATHARV KUPADE Bhakti Murgunde Botany Jaysingpur Colle...

15:55 | cbd-xew-zar

23°C 대체로 맑음 3:55 PM 09-Oct-25

Anekant Education Society's
JAYSINGPUR COLLEGE JAYSINGPUR
DEPARTMENT OF BOTANY

Organizes lecture on,
"Seed technology-Principle of Vigour & Viability Testing"
Under the Aegis of
DBT-STAR COLLEGE SCHEME

RESOURCE PERSON
Dr. Ravish Choudhary
Division of Seed Science & Technology
ICAR-Indian Agricultural Research Institute (IARI)
New Delhi-110012, INDIA

DATE- 9th October, 2025
TIME: 11: 30 am Onwards

Online Lecture link-
<https://meet.google.com/cbd-xew-zar>
Feedback form Link-
<https://forms.gle/dAUXe4m6aHrNoY?>

Organizing Committee-
Mr. Chetan Chivata
Ms. Shweta Magdum
Dr. Varsha Dawande
Dr. Pravin Karuna
Dr. Rupati Chougule

Dr. Suraj Umdale
Department Coordinator
DBT-Star College Scheme

Dr. Surat Manjare
Principal,
Jaysingpur College Jaysingpur



Ravish Choudhary (Presenting)

Seed Technology-Principles of
Vigour & Viability Testing

ICAR-Indian Agricultural Research Institute
revision1110@gmail.com

15:07 | cbd-xew-zar

Ravish Choudhary (Presenting)

Characteristics of Ideal Vigour Test

- ✓ Inexpensive - limited budgets for seed testing
- ✓ Rapid - seed labs typically have periods of peak activity
- ✓ Relatively simple - seed labs should be able to perform them without additional staff with special backgrounds or training
- ✓ Reproducible - if can't be repeated due to intricate procedures or subjective interpretation- results among lab can't be performed
- ✓ Correlated with field performance

15:17 | cbd-xew-zar

JAYSINGPUR COLLEGE JAYSINGPUR
DEPARTMENT OF BOTANY

Organizes lecture on,
"Seed technology-Principle of Vigour & Viability Testing"
Under the Aegis of
DBT-STAR COLLEGE SCHEME

RESOURCE PERSON
Dr. Ravish Choudhary
Division of Seed Science & Technology
ICAR-Indian Agricultural Research Institute (IARI)
New Delhi-110012, INDIA

DATE- 9th October, 2025
TIME: 11: 30 am Onwards

Online Lecture link-
<https://meet.google.com/cbd-xew-zar>
Feedback form Link-
<https://forms.gle/dAUXe4m6aHrNoY?>

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Dr. Rupati Chougule

Dr. Suraj Umdale
Department Coordinator
DBT-Star College Scheme

Dr. Surat Manjare
Principal,
Jaysingpur College Jaysingpur

Suraj is presenting

Suraj 64 others

Division of Seed Science & Technology
ICAR-IARI, New Delhi

Slide with (27x Aug 17)

A B C D

Ravish is presenting

Ravish 72 others

11:39

y-Principal of Vigour &

Seed quality = \sum seed attribute

Seed Vigour, Seed Viability, Seed physical quality, Seed moisture content, Seed genetic quality, Seed health, Seed quality Parameters

Seed vigour along with germination level are the two aspects of seed quality which indicate the capability of seed lots to emerge in the field.

Ravish is presenting

You, Ravish, 74 others

11:51 AM | cdb-sew-zar

I. Seedling performance based test or Germination test

Based on the concept the vigorous seed are able to:

- Efficiently breakdown the stored reserves
- Efficiently synthesise new material
- Rapidly transfer these products to emerging embryonic axis resulting in increased dry weight accumulation

Vigorous seeds rapidly germinate, metabolize and establish in the field.

Therefore, any method used to determine the rapidity of growth of the seedling will give an indication of seed vigour level.

Apparatus: As per Germination test

11:57 AM | cdb-sew-zar

Accelerated ageing (AA) test

The accelerated ageing test was developed in Mississippi State University, USA by Delouche and Baskin (1973) for determining the storage potential of seed lots.

Principle

- The accelerated ageing (AA) stress test exposes seeds for short periods to high temperature and high relative humidity (~95%). During the test, the seeds absorb moisture from the humid environment and the raised seed moisture content, along with the high temperature, causes rapid ageing.
- High vigour seed lots withstand these extreme stress conditions and deteriorate more slowly than low vigour seed lots.
- Seeds are subjected to a high temperature (40 to 45°C, usually 41°C) and high relative humidity (around 95% RH) stress for short durations (generally 72 h) followed by a standard germination test (AOSA 2009).
- The accelerated ageing test provides a vigour test for Glycine max which relates to both field emergence and storage potential.

12:01 PM | cdb-sew-zar

Conductivity test

Principle

- Washing of cell membrane in poor vigour seeds causes leakage of water-soluble compounds when immersed in water.
- Measurement of the electrical conductivity of leachates provides an assessment of the extent of electrolyte leakage from plant tissues.

More deterioration = more conductivity

ISTA has validated this test for *Cleor atrinum*, *Glycine max*, *Phaseolus vulgaris*, *Pisum sativum* (garden peas) only does not apply to field peas or the so-called 'peil-peis' varieties of garden peas (*Pisum sativum*) and *Raphanus sativus* which relates to the field emergence potential of seed lots.

12:07 PM | cdb-sew-zar

Soybean seed

Preconditioning method: Imbibe on moist media

Time: 16-18 hrs, Temperature 20°C

- If imbibition is incomplete- additional imbibition for 30-60 min at 20 ± 2 °C
- Hard seeds may be present - seeds must be incised at the cotyledonary area opposite the embryo-imbibed overnight for 16-18 h between roller filter paper at 20 ± 2 °C.

11:23

Lecture on "Seed tech"

Shweta, Sachinkumar, Prathmesh, jaid, Shradha, Ankita, You, Snehal

11:34

Lecture on "Seed tech"

Seed Technology: Principles of Vigour & Viability Testing

Ravish is presenting

You, Ravish, 50 others

11:38

Vikas, RUPALI, Sanika, Purva, Diksha, Sakshi, You, Sanskrui Return to top

11:38

Lecture on "Seed tech"

Snehal, Sejal, Tarvi, ATHARV, Savidhan, Sakshi, You, Arpita Return to top

11:42

Principle of Vigour & Viability

Seed Vigour

- Concept was given by German pathologist Hilmar and Irssen in 1911 and suggested that seed type differed in degree of aliveness.
- The quality seed was also termed by them as "Vitality" which means driving force and commonly termed as vigour
- Viability is the state of alive, while
- Vigour is the degree of their aliveness.

Ravish is presenting

You, Ravish, 78 others

11:39

Viability Testing

Shubhangi, Sonali, Tejal, Akanksha, Khalid Hussien, Pranav, You, Mahesh Return to top

11:49

Lecture on "Seed tech"

Symptoms of vigour loss??

Mismanagement (field or storage)

Physical:

- Variation in weight
- Loss of color and luster
- Odor on stored seed
- More of insect damage
- Susceptible to invasion by microbes

 Physiological:

- Reduction in germination
- Longer germination period
- Increase of abnormal seedlings
- Reduced field emergence
- Reduced resistance to stress

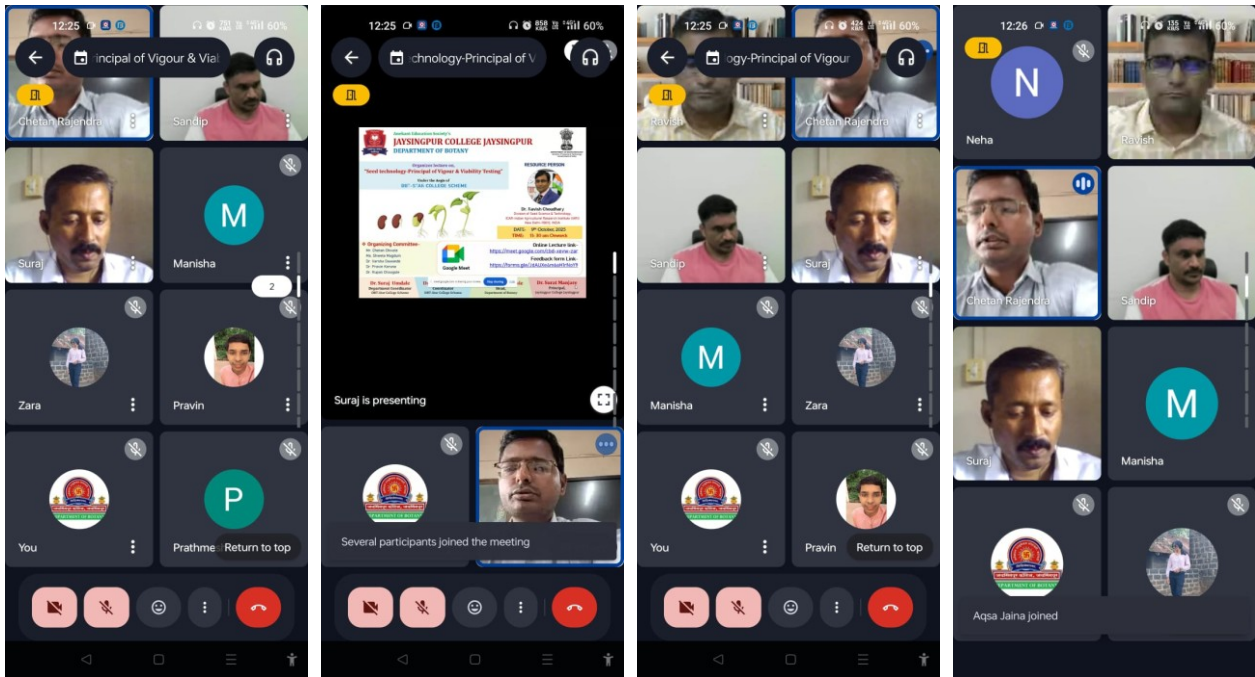
Ravish is presenting

You, Ravish, 75 others

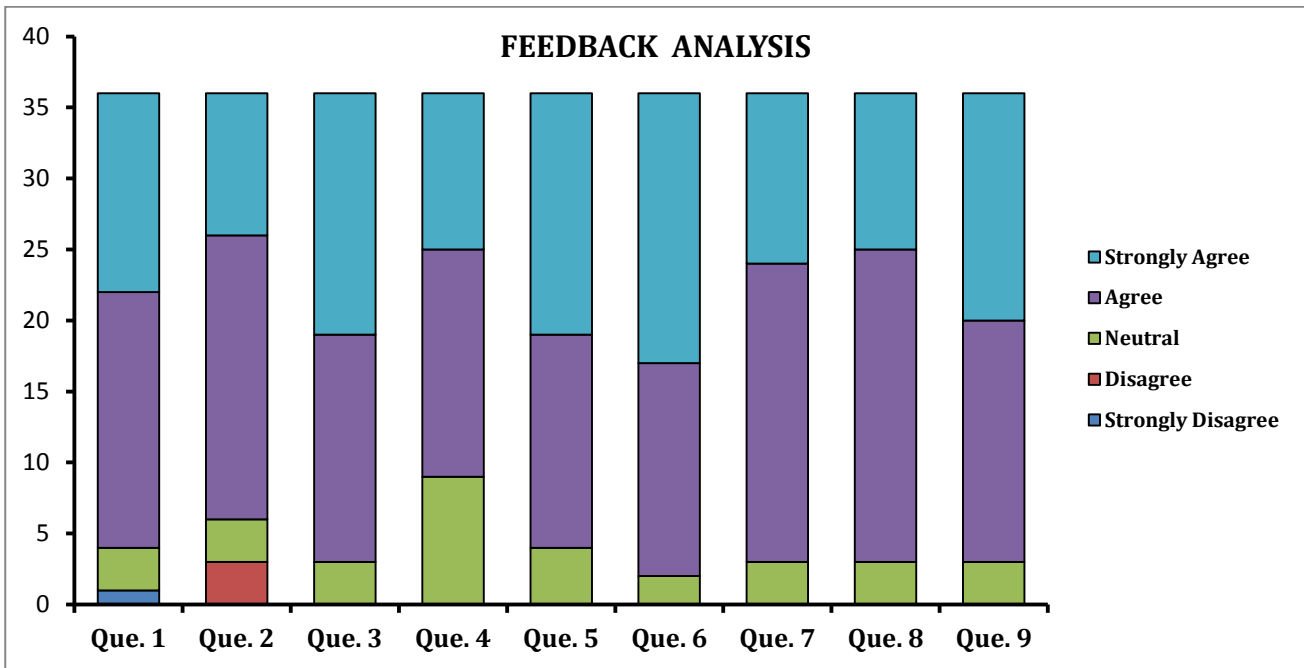
11:52

Lecture on "Seed technolog"

Sandip, Zara, Bhakti, Pravin, Prathmesh, You, Shradddh Return to top



Glimpses of Online lecture- Dr. Ravish Choudhary



Student's Feedback

(Signature)
Dr. S. D. Umdale
 Departmental Coordinator
 DBT-Star College Scheme

(Signature)
Dr. S. R. Sabale
 Coordinator
 DBT-Star College Scheme

(Signature)
Prof. Dr. (Mrs.) M. V. Kale
 Head
 Department of Botany

(Signature)
Dr. S. A. Manjare
 Principal
 Jaysingpur College Jaysingpur



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR

Department of Botany

Under the aegis of
DBT STAR COLLEGE SCHEME



Report of
Industrial Visit -
“Oasis Biocontrol Laboratory, Shirol”

On
17th January, 2026

Under the aegis of



DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology
Government of India

DBT-STAR COLLEGE SCHEME

AY-2025-26



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany



ACTIVITY REPORT

Year:	2025.26
Name of the Activity:	Industrial Visit to Oasis Biocontrol Laboratory, Shirol
Date:	17 th January, 2026
Venue:	Oasis Biocontrol Laboratory, Shirol
Tour In-charge :	Dr. S. D. Umdale Mr. C. R. Chivate
Organised for: College/class/ staff	B. Sc. II and B. Sc. III Botany Students
No. of Participants	B. Sc. 2- 3M+ 15F =18 B. Sc. 3- 0M+ 15F =15 Toatl: 33 (02 Staff)
Nature: (e.g. Academic, cultural, sports etc)	Industrial Visit
Objectives of the Activity	To know the various types of Biofertilizers, their manufacturing and organic farming
Chief Guest/s or Resource Person/s	Mr. Pravin Mali Owner, Oasis Bio-control Lab, Shirol
Short Report (in English)	<p>The department of Botany had organised the industrial visit to Oasis Bio-control Laboratory, Shirol. A total 21 students of B. Sc. 2 and 3 were participated in this industrial visit along with two teachers. The owner of Lab. Mr. Pravin Mali gave us information regarding laboratory, instruments, bio-fertilizer. The industrial visit to Oasis was highly informative and educational. It successfully bridged the gap between classroom learning and industrial application. The students were interated with staff and asked about the importance of biofertilizers in sustainable and organic farming, Market demand and future scope and about Career opportunities in biofertilizer production, research, and agribusiness. The visit motivated students to explore sustainable agricultural practices and career opportunities in the biofertilizer manufacturing.</p>



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
 Department of Botany



Industrial Visit to Oasis Biocontrol Laboratory, Shirol on 17th January 2026



Latitude: 16.748673
 Longitude: 74.597635
 Elevation: 561.84±28.6 m
 Accuracy: 32.26 m
 Time: 17-01-2026 11:02
 Address: 6080 Shriganesh Pushpaknagar Shirol, Shirol, Maharashtra 416103, India
 Note: B.Sc. II & III. Oasis lab visit 2025-26



Latitude: 16.748699
 Longitude: 74.597634
 Elevation: 578.1±16.6 m
 Accuracy: 92.9 m
 Time: 17-01-2026 11:22
 Address: 6080 Shriganesh Pushpaknagar Shirol, Shirol, Maharashtra 416103, India
 Note: B.Sc. II & III. Oasis lab visit 2025-26



Latitude: 16.74877
 Longitude: 74.597554
 Elevation: 577.9±8.22 m
 Accuracy: 56.1 m
 Time: 17-01-2026 11:22
 Address: 6080 Shriganesh Pushpaknagar Shirol, Shirol, Maharashtra 416103, India
 Note: B.Sc. II & III. Oasis lab visit 2025-26



Latitude: 16.748747
 Longitude: 74.597562
 Elevation: 577.9±6.28 m
 Accuracy: 9.371 m
 Time: 17-01-2026 12:13
 Address: 6080 Shriganesh Pushpaknagar Shirol, Shirol, Maharashtra 416103, India
 Note: B.Sc. II & III. Oasis lab visit 2025-26



Latitude: 16.748527
 Longitude: 74.597531
 Elevation: 578.2±1.34 m
 Accuracy: 10.17 m
 Time: 17-01-2026 13:40
 Address: 6080 Shriganesh Pushpaknagar Shirol, Shirol, Maharashtra 416103, India
 Note: B.Sc. II & III. Oasis lab visit 2025-26

Dr. S. D. Umdale
 Departmental Coordinator
 DBT-Star College Scheme

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Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany
Under the aegis of
DBT STAR COLLEGE SCHEME



Report of
Hands on training on-
“Herbarium Technique and understanding e-herbarium”

On
Wednesday, 28th January, 2026

Under the aegis of



DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology
Government of India

DBT-STAR COLLEGE SCHEME

AY-2025-26



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR

Department of Botany

Under the aegis of
DBT STAR COLLEGE SCHEME



ACTIVITY REPORT

Year:	2025-26
Name of the Activity:	Hands on training on Herbarium Technique and understanding e-herbarium
Date:	28 th January, 2026
Venue:	Botany Lab, Jaysingpur College, Jaysingpur
Co-ordinator:	Dr. Suraj D. Umdale
Organised for: College/class/ staff	B. Sc. Students
Financial Support	DBT-STAR COLLEGE SCHEME
No. of Participants	27 (F)+ 06 (M)=33
Nature: (e.g. Academic, cultural, sports etc)	Curricular Activity
Objectives of the Activity	To provide the hands on experience for students in herbarium preparation.
Chief Guest/s or Resource Person/s	Prof. Dr. Vinod B. Shimpale, Professor, Department of Botany, The New College, Kolhapur-416 012. MS, INDIA.
Short Report (in English)	The department of Botany has organized Hands on training on Herbarium Technique and understanding e-herbarium for the B. Sc. students. In this activity, about 33 students were participated. During this training program, students have received hands on training on preserving plant collection in the form of pressed and dried plant specimens on herbarium sheet. Also, provided live demo of visiting e-herbarium and were familiarized with its importance, and were taught the preservation techniques.
Outcome/Remark	Students have urged the knowledge of Collection, processing, preservation, herbarium preparation, and idea about the e-herbarium in online herbaria.



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany
Under the aegis of
DBT STAR COLLEGE SCHEME



Hands on training on “Herbarium Technique and understanding e-herbarium”

28th January, 2026

The department of Botany has organized a “**Hands on training on Herbarium Technique and understanding e-herbarium**” for the B.Sc. Botany students as a part of their practical syllabus on 28th January, 2026 sponsored by DBT-STAR COLLEGE SCHEME. The students were notified using notice displayed on notice board and on whatsapp group. About 33 students and teachers were participated in the training programme.

The programme commenced with the arrival of Recourse person Prof. Dr. Vinod Shimpale accompanied by, Dr. Smita Mahajan, Head, Faculty of Science and Dr. Sandip Sabale, Coordinator, DBT-STAR College Scheme. The training was started with welcome and felicitation of resource person by Sandip Sabale. Prof. Manisha Kale, Professor and Head, Department of Botany, has briefed about the aims and objectives of the training program. The objective of the training was to gain hands on skills and experience that will enable students to develop and make use of their own herbaria. The training aimed to bridge traditional herbarium practices with modern digital tools used in e-herbarium systems. The brief introduction of resource person was given by Dr. Suraj Umdale, Assistant Professor, Department of Botany.

After inauguration of workshop Prof. Vinod Shimpale explained and gave hands on training about the herbarium preparation techniques, requirements by giving some relevant examples. He has given power-point Presentation of introduction of various herbaria in the world and digital documentation of plant specimens. He also told about the rules and regulations of Biodiversity Act-2008 and the importance of maintaining herbaria in plant research institutions. The first session on e-herbarium focused on the digital transformation of traditional herbaria. Prof. Vinod Shimpale introduced students to the concepts of herbarium digitization, scanning and photographing specimens, data entry and database management, accessing national (BSI) and international e-herbarium portals (Kew ‘K’ and IAPT), importance of e-herbarium in global plant research and data sharing.

During the **hands-on session**, participants actively engaged in Field collection of plant specimens, proper handling and pressing techniques, drying and mounting of

specimens on herbarium sheets, and preparation of herbarium labels including scientific name, family, locality, date of collection, and collector's name.

The hands-on training on was highly informative and beneficial. During training, students were interacted with recourse person and discussed their queries. The program was successfully combined traditional botanical practices with modern digital approaches, equipping students with essential skills for academic research and environmental studies. The program contributed significantly to strengthening practical knowledge and promoting the use of e-herbarium resources in plant science.

After the hands on training of preparation of Herbarium Sheets, Dr. Pravin Karuna has congratulated student participants for successful completion of training program. He also thanked the DBT (DBT-Star College Scheme), Govt. of India for financial assistance. At the end of program the student participants gave a short feedback about the Workshop.



The brochure features a header with the college logo and name, the Department of Botany, and the Government of India logo. The main title is 'Hands-on training on- "HERBARIUM TECHNIQUE AND UNDERSTANDING E-HERBARIUM"'. It is under the aegis of the DBT-Star College Scheme. The resource person is Prof. Vinod Shimpale. The training is held at the Botany Laboratory, Jaysingpur College. The date is 28th January, 2026, from 10:30 am onwards. The organizing committee includes Dr. Suraj Umdale, Mr. Chetan Chivate, Ms. Shweta Magdum, Dr. Varsha Dawande, Dr. Pravin Karuna, and Dr. Rupali Chougule. The brochure also includes a photo of Prof. Shimpale, a screenshot of the NYBG Index Herbariorum website, and a photo of a herbarium sheet being prepared.

Anekant Education Society's
JAYSINGPUR COLLEGE JAYSINGPUR
DEPARTMENT OF BOTANY

DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology
Government of India

Hands-on training on-
"HERBARIUM TECHNIQUE AND UNDERSTANDING E-HERBARIUM"

Under the Aegis of
DBT-STAR COLLEGE SCHEME

Resource Person


Prof. Vinod Shimpale
M.Sc., Ph.D., FIAAT, FBI
Professor,
Department of Botany,
The New College Kolhapur


NYBG STEERE HERBARIUM
Home Discover Collections Science Digital Index Herbariorum Virtual Herbarium News

DATE- 28th January, 2026
TIME: 10: 30 am Onwards

 **Botany Laboratory**
Jaysingpur College Jaysingpur

❖ Organizing Committee-
Dr. Suraj Umdale
Mr. Chetan Chivate
Ms. Shweta Magdum
Dr. Varsha Dawande
Dr. Pravin Karuna
Dr. Rupali Chougule

Prof. Manisha Kale
Head,
Department of Botany

Dr. Sandip Sabale
Coordinator
DBT-Star College Scheme

Dr. Smita Mahajan
Head,
Faculty of Science

Dr. Surat Manjare
Principal,
Jaysingpur College Jaysingpur

Program Brochure

Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
(Jain Minority)

JAYSINGPUR - 416 101, Tal. Shiraj, Dist. Kolhapur, Maharashtra, India

Affiliated to Shivaji University, Kolhapur / Accredited at 'A' Grade (NAAC-3rd Cycle) / DST-STAR (Level-1 Sponsored) / DBT Star College, Support
ACTE Code: 14202 / AICTE Code: C-11084 / UAI, (PMS) (2022-23-24) / Email: jaysingpurcollege@gmail.com / Website: www.jaysingpurcollege.edu.in

Ref. No. ASES/1/2025/26. Date: 24/01/2026

PRINCIPAL
Dr. S. A. Manjare
M.Sc., M.Phil., Ph.D.
Mob. 9822215846

To,
Prof. (Dr.) Vinod B. Shimpale
Professor,
Department of Botany,
The New College, Kolhapur-416 012,
Maharashtra, INDIA.

Subject: Invitation as resource person for "Hands-on training on- "Herbarium Technique and Understanding E-Herbarium"

Respected sir,

With reference to above mentioned subject, it gives us an immense pleasure to invite you to as resource person for "Hands-on training on- "Herbarium Technique and Understanding E-Herbarium" organized by Jaysingpur College, Jaysingpur on 28th January, 2026. As you are expert and renowned taxonomist, we appreciate your presence in the hands on training programme.

With Best Regards,


Prof. (Dr) Mrs. M.V. Kale
Head
Department Of Botany
Jaysingpur College, Jaysingpur


PRINCIPAL
Jaysingpur College, Jaysingpur

Anekant Education Society's
JAYSINGPUR COLLEGE JAYSINGPUR
Affiliated to Shivaji University Kolhapur / Reaccredited 'A' grade by NAAC
Jain Minority College / DST-STAR (Level-1) Sponsored

Hands on training on Herbarium Techniques and understanding e-Herbarium
(28th January 2026)

PROGRAMME

28th January, 2026 Time: 10:30 am

Welcome & Inauguration	10:30 – 10:40 am	Prof. (Dr.) Manisha V. Kale Professor & Head, Department of Botany Jaysingpur College Jaysingpur
Felicitation of Resource person	10:40 – 10:50 am	Dr. Suraj D. Umdale Asst. Prof. Department of Botany Jaysingpur College Jaysingpur
Introduction of Resource person		
Presidential Speech	10:50 – 11:00 am	Dr. Surat A. Manjare Principal, Jaysingpur College Jaysingpur
Gracious Presence		Dr. Smita S. Mahajan Head, Faculty of Science, Jaysingpur College Jaysingpur Dr. Sandip R. Sabale Coordinator, DBT-STAR College Scheme Jaysingpur College Jaysingpur
Resource Person talk- Herbarium technique & e-herbarium	11:00 – 12:00 pm	Prof. Vinod B. Shimpale M. Sc., Ph.D., FIAAT, FBI Department of Botany, The New College Kolhapur
Hands on training Preparation of Herbarium	12:00 – 01:00 pm	
Vote of Thanks	01:00 – 01:30 pm	Dr. Pravin B. Karuna Asst. Prof. Department of Botany Jaysingpur College Jaysingpur


Prof. Dr. (Mrs.) M. V. Kale
Head
Department of Botany

Invitation Letter

Table Program

Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany
Under the aegis of
DBT STAR COLLEGE SCHEME

Hands-on training on "Herbarium Technique and understanding e-Herbarium"

Date: 28.01.2026

ATTENDANCE SHEET

Sr. No.	Name of student/Faculty	Class/ designation	Sign
1	Tanay Amasa Mali	B.Sc-II	[Signature]
2	Anived Anandraso Hanbur	"	[Signature]
3	Prakash Sandip Mali	B.Sc-I	[Signature]
4	Siddhant Pradeep Kamble	B.Sc-I	[Signature]
5	Bhuvan Sandeep Mane	B.Sc-I	[Signature]
6	Pooja Chandrabant Kone	B.Sc-III	[Signature]
7	Arpita Anil Koli	B.Sc-III	[Signature]
8	Sakshi Sanjivao Koli	B.Sc-III	[Signature]
9	Zoya Maya Gavandi	"	[Signature]
10	Pooja Suryakant Shirde	"	[Signature]
11	Vedkashree Sandeep Kamble	"	[Signature]
12	Siddheshwari Gajalappa Ghatge	B.Sc-II	[Signature]
13	Sonal Abhiman Rhat	B.Sc-II	[Signature]
14	Amruta Uham Sufas	B.Sc-II	[Signature]
15	Rukhsat Munkir Mujawar	B.Sc-II	[Signature]
16	Komal Dipak Sawant	B.Sc-II	[Signature]
17	Manali Balaso Kamble	"	[Signature]
18	Akshita Malhari Kamble	"	[Signature]
19	Shreyo Prakash Sawant	"	[Signature]
20	Habiba S. Peerzade Ramdar	"	[Signature]
21	Aqsa Shabbir Jaina	B.Sc-II	[Signature]
22	Ankita Shashikant Mane	B.Sc-II	[Signature]
23	Rasika Sanjay Koli	B.Sc-II	[Signature]
24	Diksha Adinath Patil	B.Sc-III	[Signature]
25	Samruddhi Sandeep Salunkhe	B.Sc-III	[Signature]

1

Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany
Under the aegis of
DBT STAR COLLEGE SCHEME

Hands-on training on "Herbarium Technique and understanding e-Herbarium"

Date: 28.01.2025

ATTENDANCE SHEET

Sr. No.	Name of student/Faculty	Class/ designation	Sign
26	Murgunde Bhakti Suhas	BSC III	[Signature]
27	Gaikwad Pratiksha Tanaji	BSC III	[Signature]
28	Gaikwad Pradnya Tanaji	BSC III	[Signature]
29	Tandale Sakshi Vijay	-II-	[Signature]
30	Saloni Satish Mane	-II-	[Signature]
31	Ratika Ramesh Magdum	Bsc II	[Signature]
32	Akanksha Mohan Patil	Bsc II	[Signature]
33	Siddhant N. Kothawale	-II-	[Signature]
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2

Participants Attendance





Latitude: 16.770177
 Longitude: 74.557745
 Elevation: 582.15±2.51 m
 Accuracy: 14.25 m
 Time: 28-01-2026 12:55
 Address: Nagarpalika Nokar Housing Society, Swapnanagari, Jaysingpur, Maharashtra 416101, India
 Note: E Herbarium technique workshop



Latitude: 16.770193
 Longitude: 74.557735
 Elevation: 582.15±6.85 m
 Accuracy: 11.55 m
 Time: 28-01-2026 13:15
 Address: Nagarpalika Nokar Housing Society, Swapnanagari, Jaysingpur, Maharashtra 416101, India
 Note: E Herbarium technique workshop



Latitude: 16.77018
 Longitude: 74.557743
 Elevation: 582.15±7.25 m
 Accuracy: 5.581 m
 Time: 28-01-2026 13:16
 Address: Nagarpalika Nokar Housing Society, Swapnanagari, Jaysingpur, Maharashtra 416101, India
 Note: E Herbarium technique workshop



Latitude: 16.771048
 Longitude: 74.557737
 Elevation: 579.05±1.41 m
 Accuracy: 6.93 m
 Time: 28-01-2026 13:27
 Address: Akshay building, plot no 37, Swapnanagari, Jaysingpur, Maharashtra 416101, India
 Note: E Herbarium technique workshop 2025-26

Dr. S. D. Umdale
 Departmental Coordinator
 DBT-Star College Scheme

Dr. S. R. Sabale
 Coordinator
 DBT-Star College Scheme

Prof. Dr. (Mrs.) M. V. Kale
 Head
 Department of Botany

Dr. S. A. Manjare
 Principal
 Jaysingpur College Jaysingpur



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany
Under the aegis of
DBT STAR COLLEGE SCHEME



Report of
Guest Lecture -
'THE BLUEPRINT OF BREEDING: An Introduction to
Molecular Markers in Crop Science'

On
11th February, 2026

Under the aegis of



DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology
Government of India

DBT-STAR COLLEGE SCHEME

AY-2025-26



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR

Department of Botany

Under the aegis of
DBT STAR COLLEGE SCHEME



ACTIVITY REPORT

Year:	2025-26
Name of the Activity:	A guest lecture on 'THE BLUEPRINT OF BREEDING: An Introduction to Molecular Markers in Crop Science'
Date:	11 th February, 2026
Venue:	Online Mode (Google Meet) Online Lecture link- https://meet.google.com/vzf-sdna-cxu
Financial Assistance	DBT-STAR COLLEGE SCHEME
Program Coordinator:	Dr. Suraj D. Umdale
Resource persons:	Dr. Gayacharan , Senior Scientist, Division of Genomic Resources, National Bureau of Plant Genetic Resources (NBPGR), New Delhi-110012, INDIA
Organised for: College/class/ staff	B. Sc. Students and staff
No. of Participants	56 (Online)
Nature: (e.g. Academic, cultural, sports etc)	Co-curricular Activity
Objectives of the Activity	To understand the evolution of molecular markers and its applications in the modern plant breeding programs.
Short Report (in English)	The department of Botany organised a guest lecture on 'THE BLUEPRINT OF BREEDING: An Introduction to Molecular Markers in Crop Science' on 11 th February 2026 at 11:00 am via. Online mode (Google Meet). A total 56 students and faculty staff was attended the lecture. During this lecture Dr. Gayacharan explained the about how molecular markers, such as RAPD. RFLP. AFLP, SSRs and SNPs, can be used in modern plant breeding techniques. These markers allow breeders to identify specific DNA segments associated with desirable traits, enabling applications like Marker-Assisted Selection (MAS) and gene pyramiding. The session highlighted that molecular breeding offers a more precise, predictable, and faster approach compared to traditional methods.



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany



A guest lecture on
'THE BLUEPRINT OF BREEDING: An Introduction to Molecular Markers in Crop Science'

11th February, 2026

The department of Botany organised a guest lecture on **'THE BLUEPRINT OF BREEDING: An Introduction to Molecular Markers in Crop Science'** on 11th February, 2026 at 11:00 am via. Online mode (Google Meet). A total 56 students and faculty staff was attended the lecture.

The lecture was started at 11:00 am by welcome of the resource person Dr. Gayacharan, Senior Scientist, Division of Genomic Resources, National Bureau of Plant Genetic Resources (NBPGR), New Delhi. The program coordinator, Dr. Suraj Umdale (Asst. Prof.) welcome the resource person Dr. Gayacharan, honourable principal Dr. Surat Manjare, Prof. Manisha V. Kale, Head, Department of Botany, Dr. Sandip Sabale, Coordinator, DBT-STAR College scheme and the student participants. After welcome note, he had given the brief introduction of the resource person, and shared the objectives of the program.

The lecture was started with explanation of the various methods of germplasm evaluation and markers used in breeding programs such as morphological and biochemical. Dr. Gayacharan explained the concept of molecular markers and how they are discovered. He beautifully explained RFLP, RAPD, AFLP, SSR, ISSR and SCAR markers. Also, he told that, molecular markers are a very important in molecular breeding and marker assisted selection (MAS).

After the talk, Prof. Manisha Kale, Head, Department of Botany appreciated the wonderful lecture given by Gayacharan. The online feedback about the guest lecture was taken via Google Forms from the students. In concluding remarks, Dr. Suraj Umdale, gave vote of thanks to resource persons for their valuable guidance, Honourable principal Dr. Surat Manjare, Prof. Manisha V. Kale, Head, Department of Botany, Dr. Sandip Sabale, Coordinator, DBT-STAR College scheme, teachers and student participants. With the Chairperson's permission, he declared the program closed.



Aneka Education Society's

JAYSINGPUR COLLEGE JAYSINGPUR

DEPARTMENT OF BOTANY



DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology
Government of India

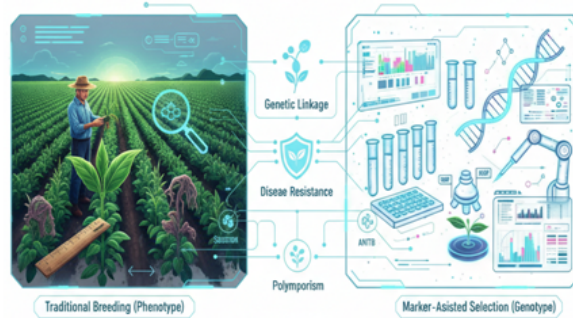
An Invited Talk On- "THE BLUEPRINT OF BREEDING: An Introduction to Molecular Markers in Crop Science"

Under the Aegis of
DBT-STAR COLLEGE SCHEME

Resource Person



Dr. Gayacharan
M.Sc., Ph.D.
Senior Scientist,
Division of Genomic Resources,
National Bureau of Plant Genetic
Resources (NBPGR), New Delhi



DATE-

11th February, 2026



TIME-

11: 00 am Onwards

❖ Program Coordinator-
Dr. Suraj Umdale

❖ Organizing Committee-
Mr. Chetan Chivate
Ms. Shweta Magdum
Dr. Varsha Dawande
Dr. Pravin Karuna
Dr. Rupali Chougule

Prof. Manisha Kale
Head,
Department of Botany

Dr. Sandip Sabale
Coordinator
DBT-Star College Scheme

Dr. Smita Mahajan
Head,
Faculty of Science

Dr. Surat Manjare
Principal,
Jaysingpur College Jaysingpur

Program Brochure

Estd. June 1964

Aneka Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR

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 * Accredited at 'A' Grade (NAAC) * DST - FIST (Level - I) Sponsored
 Address : Shiradi-Wadi Road, Jaysingpur - 416 101, Dist. Kolhapur, State - Maharashtra, India
 Prin. Dr. S. A. Manjare • Tel. (0) 02322 - 225381 / 481 • Website - www.jaysingpurcollege.edu.in • E-mail - jpscollegejps@gmail.com

Ref: AFS/JC/2025-26/e-mail Date: 05.02.2026


To,
Dr. Gayacharan
Senior Scientist,
Division of Genomic Resources,
National Bureau of Plant Genetic Resources (NBPGR)
Plot, Campus, New Delhi-110012, INDIA


Subject: Invitation as resource person for "Popular Lecture"

Respected sir,

With reference to the subject mentioned above, it gives us immense pleasure to invite you as a resource person for the 'Popular Lecture' organized by the Department of Botany, Jaysingpur College, Jaysingpur, on **Wednesday, 11th February, 2026**. We appreciate your expertise in plant biotechnology and look forward to hearing your thoughts. Kindly, accept the same and enrich the knowledge of our students.
Date of Program: 11th February, 2026

With Best Regards,


 Prof. (Dr) Ms. M.V. Kale
 Head
 Department Of Botany
 Jaysingpur College, Jaysingpur


 PRINCIPAL
 Jaysingpur College Jaysingpur

Invitation Letter

11:08 AM | vzf-sdna-cxu

Participants: Gayacharan, Manisha Kale, Varsha Dawande, Sakshi Gavade, Sakshi Tandale, akshata Kamble, Botany JaysingpurCollege, Suraj Umdale.

Windows taskbar: Type here to search, 24°C Sunny, ENG, 11:08, 11-02-2026

6 Gayacharan (Presenting)

THE BLUEPRINT OF BREEDING

An introduction to Molecular Markers in Crop Science

Dr Gayacharan
Senior Scientist
Division of Genomic Resources,
ICAR-National Bureau of Plant Genetic Resources, New Delhi

Participants: Gayacharan, Botany Jaysing..., Sakshi Tandale, akshata Kamble, Suraj Umdale.

11:11 AM | vzf-sdna-cxu

Windows taskbar: Type here to search, 24°C Sunny, ENG, 11:11, 11-02-2026

6 Gayacharan (Presenting)

Thomas Hunt Morgan's *Drosophila* experiments (1910–1915)

- **Proof that genes reside on chromosomes**
- White-eyed mutant appeared spontaneously
- Trait showed sex-linked inheritance (red eye x white eye)
- Linkage and crossing over (yellow-body/white eye x red eyed/brown body)
- Frequency of crossing over between two genes directly proportional to the distance separating them on the chromosome)
- **First genetic linkage maps:** Morgan's undergraduate student, **Alfred Sturtevant**, used this logic to realize that the recombination frequencies could be used to map the relative positions of genes in a linear order on the chromosome. He stayed up all night to create the world's first genetic linkage map of the *Drosophila* X chromosome, laying the foundation for modern genetic mapping.
- Nobel Prize in Physiology or Medicine in 1933

Participants: Gayacharan, Botany Jaysing..., Sakshi Tandale, Sonali Bhoi, Suraj Umdale.

11:20 AM | vzf-sdna-cxu

Windows taskbar: Type here to search, 26°C Sunny, ENG, 11:20, 11-02-2026

6 Gayacharan (Presenting) 45

Gel visualisation: Isozyme electrophoresis

Phenotype	1	12	2
Genotype	1/1	1/2	2/2

11:33 AM | vzf-sdna-cxu

Gayacharan

Botany Jaysing...

Sakshi Tandale

Sonali Bhoi

39 others

Suraj Umd...

6 Gayacharan (Presenting) 45

Restriction Fragment Length Polymorphism (RFLP) – First DNA marker

- Genes were known, but DNA variation was invisible
- Restriction enzymes were discovered while studying why bacteria resist viral infections.
- Hamilton O. Smith (1970) isolated HindII, the first restriction enzyme with sequence specificity
- Southern blotting (1975): Edwin Southern developed a method to: Separate DNA fragments on a gel, (b) Transfer them to a membrane, and (c) Detect specific sequences using labelled probes
- Botstein, D., White, R. L., Skolnick, M., & Davis, R. W. (1980). Construction of a genetic linkage map in man using restriction fragment length polymorphisms. *American journal of human genetics*, 32(3), 314.
- This was the first time:
 - No phenotype needed
 - No gene function needed
 - Just DNA variation
 - Quantitative traits became mappable

11:35 AM | vzf-sdna-cxu

Gayacharan

Botany Jaysing...

Sakshi Tandale

Sonali Bhoi

39 others

Suraj Umd...

6 Gayacharan (Presenting) 46

RFLP: Analysis

- DNA Extraction
- Restriction Enzyme Digestion
- Gel Electrophoresis
- Denaturation and Transfer (Optional)
- Hybridization (Optional)
- Visualization and analysis

Cause of variation: Natural DNA variation alters restriction sites

- Codominant, locus-specific markers
- Restriction enzymes + Electrophoresis
- Southern blot/staining

Young, N. D., & Tanksley, S. D. (1989). RFLP analysis of the size of chromosomal segments retained around the Tm-2 locus of tomato during backcross breeding. *Theoretical and Applied Genetics*, 77(1), 95-100

11:39 AM | vzf-sdna-cxu

Gayacharan

Botany Jaysing...

Sakshi Tandale

Sonali Bhoi

40 others

Suraj Umd...

Polymerase Chain Reaction (PCR)

- Before PCR was discovered, to study or detect a gene, researchers had to:
 - Clone it into plasmids, Grow bacteria, Purify DNA
- In April 1983, Kary Mullis (a chemist at Cetus Corporation, California) was driving at night along Highway 128 in Northern California, thinking about how to detect a specific DNA sequence.
- If two primers flank a target DNA sequence, and DNA polymerase extends them, the newly made DNA can itself become a template in the next cycle.
- This means: Each cycle doubles the target sequence, and repeated cycles will cause exponential amplification.
- Mullis, K., Faloona, F., Scharf, S., Saiki, R., Horn, G., & Erlich, H. (1986, January). Specific enzymatic amplification of DNA in vitro: the polymerase chain reaction. In *Cold Spring Harbor symposium on quantitative biology* (Vol. 51, pp. 263-273). Cold Spring Harbor Laboratory Press.

Random Amplified Polymorphic DNA (RAPD) – first PCR-based marker

- Williams, J. G., Kubelik, A. R., Livak, K. J., Rafalski, J. A., & Tingey, S. V. (1990). DNA polymorphisms amplified by arbitrary primers are useful as genetic markers. *Nucleic acids research*, 18(21), 6531-6535.

Mendel's pea experiments (1856-1863):

Shape, colour, location, height

- Law of Segregation
- Law of Independent Assortment
- Traits are controlled by discrete units (factors), not blending factors

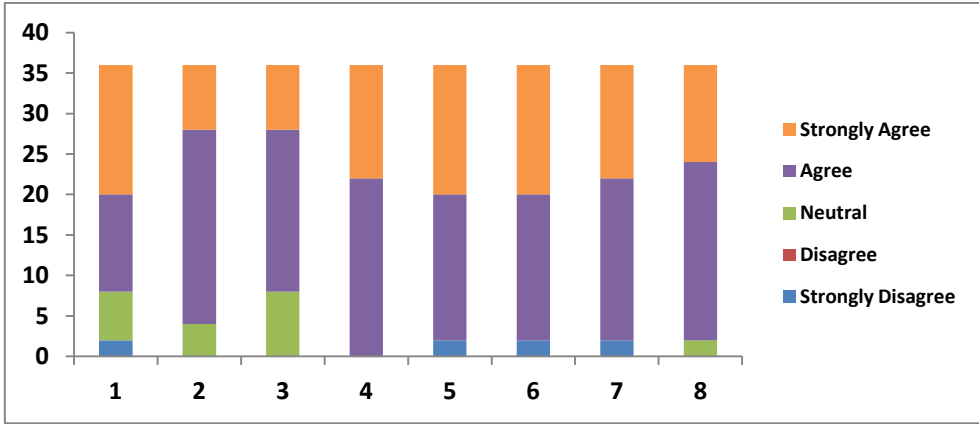
Mendel, G. (1865). *Versuche über pflanzenhybriden. Vorgelegt in den Sitzungen.*

Hugo de Vries, Carl Correns, and Erich von Tschermak, three botanists, in 1900, independently rediscovered Gregor Mendel's laws of inheritance

Inter Simple Sequence Repeat (ISSR)

THANK YOU!

Glimpses of Online lecture- Dr. Gayacharan



Feedback Analysis

Dr. S. D. Umdale
 Dr. S. D. Umdale
 Departmental Coordinator
 DBT-Star College Scheme

Dr. S. R. Sabale
 Dr. S. R. Sabale
 Coordinator
 DBT-Star College Scheme

Prof. Dr. (Mrs.) M. V. Kale
 Prof. Dr. (Mrs.) M. V. Kale
 Head
 Department of Botany

Dr. S. A. Manjare
 Dr. S. A. Manjare
 Principal
 Jaysingpur College Jaysingpur



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany
Under the aegis of
DBT STAR COLLEGE SCHEME



Report of
Botanical Visit to Lead Botanical Garden (LBG),
Shivaji University, Kolhapur
(2025-26)

Under the aegis of
DBT-STAR COLLEGE SCHEME



DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology
Government of India





Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR

Department of Botany

Under the aegis of
DBT STAR COLLEGE SCHEME



ACTIVITY REPORT

Year:	2025-26
Name of the Activity:	“Botanical Visit to Lead Botanical garden (LBG), Shivaji University, Kolhapur”
Date:	12 th February, 2026
Venue:	Shivaji University, Kolhapur
Financial Assistance	DBT-STAR COLLEGE SCHEME
Tour in-charge:	Dr. Suraj D. Umdale
Organised for: College/class/ staff	B. Sc. II (Minor) and B. Sc. III Students
No. of Participants	32F (02 staff)+16M (01 staff)= 48 (03 staff)
Nature: (e.g. Academic, cultural, sports etc)	Academic Activity
Objectives of the Activity	<ul style="list-style-type: none">• To provide practical exposure of botanical studies and conservation efforts to students• To explore the Lead Botanical Garden (LBG) at Shivaji University, Kolhapur.• To learn about indigenous plant species and conservation of RET species.• To interact with experts in the field of taxonomy (Prof. Dr. S. R. Yadav).
Short Report (in English)	As per the curriculum of Shivaji University, Kolhapur for B. Sc. II Botany subject. The department of Botany organised the Botanical Excursion (Field visit) to Lead Botanical garden (LBG) and Herbarium, Shivaji University, Kolhapur . A total 48 students and 03 faculty staff were participated in this study tour. The main aim of Botanical Excursion was to study the conservation strategies implemented by department to conserve the Rare, Endangered, and Threatened (RET) species at LBG. Also students were visited the Herbaria at department of Botany. The present Botanical excursion increased the knowledge of students about the conservation of RET species and herbarium.



BOTANICAL EXCURSION (FIELD VISIT) REPORT

12th February, 2026

The Department of Botany has organised One Day “Botanical Visit to Lead Botanical garden (LBG), Shivaji University, Kolhapur”, on Thursday, 12th February 2026 for B.Sc. II and B. Sc. III year students. A group of 48 students along with teaching staff Dr. Suraj D. Umdale (Asst. Prof.) Dr. Rupali Chougule (Asst. Prof.), and Miss. Shweta Magdum (Asst. Prof.) of Botany department were participated in the botanical excursion. The field trip to Lead Botanical garden (LBG), Shivaji University at Kolhapur offered an enriching experience for the students, providing students with insights into conservation efforts.

The all teachers and students assembled and started our journey from Jaysingpur College of Jaysingpur at 9.30 am. The students were reached Shivaji University at 11.30 am.

The Lead Botanical garden (LBG) is supported by funding from the Ministry of Environment and Forests (MoEF), the garden boasts additional infrastructure and spans over 30 acres, facilitating extensive plantation efforts. A major attraction within the garden is the petrified fossil of member of the *Mesembryoxylon mahabalai*, Podocarpaceae family, serving as a focal point for the students and visitors. Mr. Ganesh Gund, (Research Scholar at department of Botany) gave information of the Botanical garden. The students were observed various plant species at Pinetum. About 30 species of Gymnosperms, showcased remarkable specimens such as *Agathis alba*, *Cycas circinalis*, and *Podocarpus wallichianum*. Additionally, the Conservatory Rhizomatous, Cormatous, Tuberous, and Bulbous plants of the Western Ghats, held a diverse collection of over 40 species, including *Dipcadi Crinum* *Amorphophallus* and *Chlorophytum* species. The Palmatum featured more than 50 species of indigenous and cultivated palms, The students were also visited the Orchidarium having more than 75 species of orchids, showing a rich biodiversity of the region. The students also explored various attractions on the University campus, including *Victoria Amazonica*, an aquatic plant known for its striking presence.

After lunch at 2:30 pm students were visited the herbaria at the department. Dr. (Miss.) Rupali Chougule, a research scholars, explained the parts of herbaria and its arrangement. Throughout the trip, students engaged in interactive sessions with research scholars and experts from Shivaji University, gaining valuable knowledge and insights into botanical studies and conservation efforts.

During this visit the students were interacted with Prof. S. R. Yadav (Ex. Prof. at Department of Botany, Shivaji University, Kolhapur). He had well explained the Role of Botanical garden in the conservation of RET species. The students have enhanced understanding of indigenous plant species and conservation practices and also promoted their interest and awareness in conservation.

The Excursion was very interesting, students participated were interacted with teachers and guide in very well manner, discipline. Students realised that viewing the flora in natural habitat enhances theoretical and practical knowledge. Therefore, the trip successfully inculcated in students the practicality of different theoretical concepts of Botany. The all teachers and students assembled on 4:30 pm at department of Botany and started return journey to the Jaysingpur. The students were reached at Jaysingpur College Jaysingpur on 5.30 am.







Dr. S. D. Umdale

Dr. S. D. Umdale
Departmental Coordinator
DBT-Star College Scheme

Dr. S. R. Sabale

Dr. S. R. Sabale
Coordinator
DBT-Star College Scheme

Prof. Dr. (Mrs.) M. V. Kale

Prof. Dr. (Mrs.) M. V. Kale
Head
Department of Botany

Dr. S. A. Maniारे

Dr. S. A. Maniare
Principal
Jaysingpur College Jaysingpur



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany
Under the aegis of
DBT STAR COLLEGE SCHEME



REPORT ON
SEMINAR COMPETITION 2025-26
B. Sc. III

Organized by
DEPARTMENT OF BOTANY,
Internal Quality Assurance Cell (IQAC)

17th February, 2026

Under the aegis of
DBT-STAR COLLEGE SCHEME



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR

Department of Botany

Under the aegis of
DBT STAR COLLEGE SCHEME



ACTIVITY REPORT

Year:	2025-26
Name of the Activity:	Seminar Competition
Date:	17 th February, 2026
Venue:	Department of Botany, Jaysingpur College
Financial Assistance:	DBT-STAR COLLEGE SCHEME
Co-ordinator:	Dr. Suraj D. Umdale
Organised for: College/class/ staff	B. Sc. III Students
No. of Participants	14
Nature: (e.g. Academic, cultural, sports etc)	Extra-curricular Activity
Objectives of the Activity	<ul style="list-style-type: none">• To enhance the presentation skills in students.• To boost their confidence, performance and productivity.
Short Report (in English)	The department of Botany has organized " Seminar Competition " for the B. Sc. III (BOTANY) students. In this activity, a total 14 student participants were prepared their presentations and delivered the seminars on the various topics of botany. The program was conducted under the guidance of Prof. Dr. (Mrs.) M. V. Kale, Head, Botany Department Jaysingpur College, Jaysingpur.
Outcome/Remark	The students have enhanced their confidence about public speaking and also enhanced presentation skills. <ul style="list-style-type: none">• Development of intellectual skills• Improved student understanding• Increased student engagement



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Department of Botany

Under the aegis of
DBT STAR COLLEGE SCHEME




Seminar Competition 2025-26


17th February, 2026

The department of Botany has organized “Seminar Competition” for the B.Sc. III Botany students on **Tuesday, 17th February, 2026 at 11:00 am**. The students were notified using notice displayed on notice board and on whatsapp group. About 17 students were participated in the seminar competition.

The competition was started with inauguration and the welcome of participant's students by Dr. S. D. Umdale. He has given the short talk about the seminar competition in overall development of the students which include enhancement of presentation skills, confidence and student performance. He has suggested various methods and techniques of delivering seminars. After inaugural talk, he announced the seminar competition is open. Based on registration the participants, they delivered the seminars and discussed about various question asked by audiences.



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Department of Botany
Under the aegis of
DBT STAR COLLEGE SCHEME



DEPARTMENT OF BOTANY,
Internal Quality Assurance Cell (IQAC)
Organizes
SEMINAR COMPETITIONS

Date: 17th February, 2026 @ 11:00 am

Venue
Botany Department

Organizing Committee Members

Dr. S. D. Umdale
Program Coordinator

• Mr. C. R. Chivate • Miss. S. A. Magdum • Dr. P. B. Karuna
• Dr. (Mrs) V. R. Dawande • Dr. (Miss.) R. N. Chougule

Prof. Manisha Kale Head, Department of Botany	Dr. Sandip Sabale Coordinator DBT-Star College Scheme	Dr. Smita Mahajan Head, Faculty of Science	Prof. Dr. T. G. Ghatage Coordinator IQAC	Dr. Surat Manjare Principal, Jaysingpur College Jaysingpur
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Program Boucher

Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
DEPARTMENT OF BOTANY


Notice

Date: 10/02/2026

All students of B. Sc. III are hereby informed that the "Seminar Competition" of Subject BOTANY is scheduled on **Tuesday, 17/02/2026**.
The All students make contact with Dr. S. D. Umdale and confirm your participation in activity.

Seminar Competition

Day: **Tuesday**
Date: **17/02/2026**
Time: **11:00 am**
Venue: **Botany Department**


Head
Department of Botany
Jaysingpur College, Jaysingpur

Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany
Under the aegis of
DBT STAR COLLEGE SCHEME

Date: 17/02/2026

Seminar Competition

Attendance

Sr. No.	Roll No.	Student Name	Title of topic	Sign
01	30	Nadaf Nafisa Imran	Biofertilizers	<i>[Signature]</i>
02	32	Sakshi Dipak Gavade	Saffron plant	<i>[Signature]</i>
03	33	Tandale Sakshi Vijay	Conservation of biodiversity	<i>[Signature]</i>
04	34	Saloni Satish Mane	Structure of ovule of its types	<i>[Signature]</i>
05	35	Saloni Satish Mane	Development of endosperm	<i>[Signature]</i>
06	36	Sakshi Sarjearao Koli	Environment role of plants	<i>[Signature]</i>
07	37	Koli Arpita Anil	Genetically Modified plants	<i>[Signature]</i>
08	38	Kore Purva Chandrakant	Plant Biotechnology	<i>[Signature]</i>
09	45	Pratiksha Tanaji Gaikwad	Conservation of Plant Diversity	<i>[Signature]</i>
10	46	Pradnya Tanaji Gaikwad	Structure of ovule of its types	<i>[Signature]</i>
11	54	Jagtap Sanskruti Pradip	Microsporangium & megasporangium	<i>[Signature]</i>
12	57	Gavandi Zara Musa	medicinal plants	<i>[Signature]</i>
13	58	Kamble Vedashree Sandeep	Genetic engineering in plants	<i>[Signature]</i>
14	59	Paval Suryakant Shinde	Biopesticides	<i>[Signature]</i>
15	76	Murgunde Bhakti Suhas	Pollination in plants	<i>[Signature]</i>
16	100	Mohite Yash Maruti		
17	101	Raees Gulabhusain Shikalgar		
18	103	Komal Hariba Mohite		
19	111	Samruddhi Sandeep Salunkhe		

Examiners-
1) Dr. V. R. Dawande
2) Mr. C. R. Chivate


Dr. S. D. Umdale
Activity In-charge
Head,
Department of Botany

Notice


Seminar Topics

Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany
Under the aegis of
DBT STAR COLLEGE SCHEME

Seminar Competition Date: 17/02/2026

Sr. No.	Roll No.	Student Name	Title of topic	Preparation (10)	Presentation (10)	Q/A (05)	Total (25)
01	30	Nadaf Nafisa Imran	Biofertilizers	04	04	01	09
02	32	Sakshi Dipak Gavade	Saffron plant	05	05	01	11
03	33	Tandale Sakshi Vijay	Conservation of biodiversity	06	06	03	15 III
04	34	Saloni Satish Mane	Development of endosperm	06	06	01	13
05	35	Sakshi Sarjearao Koli	Environment role of plants	06	04	01	11
06	36	Koli Arpita Anil	Genetically Modified Plants	06	06	01	13
07	37	Kore Purva Chandrakant	Plant Biotechnology	06	05	01	12
08	38	Patil Diksha Adinath	Conservation of Plant Diversity	06	06	04	16 II
09	45	Pratiksha Tanaji Gaikwad	Structure of ovule of its type	08	07	03	18 I
10	46	Pradnya Tanaji Gaikwad	Microsporangium & megasporangium	07	05	02	14
11	54	Jagtap Sanskruti Pradip					
12	57	Gavandi Zara Musa	medicinal plants.	05	05	01	11
13	58	Kamble Vedashree Sandeep	Genetic engineering in plants	05	05	01	11
14	59	Paval Suryakant Shinde	Biopesticides	05	05	01	11
15	76	Murgunde Bhakti Suhas	Pollination in plants	06	06	02	14
16	100	Mohite Yash Maruti					
17	101	Raees Gulabhusain Shikalgar					
18	103	Komal Hariba Mohite					
19	111	Samruddhi Sandeep Salunkhe					

Examiners-
1) Dr. V. R. Dawande
2) Mr. C. R. Chivate



Dr. S. D. Umdale
Activity In-charge
Head,
Department of Botany

Anekant Education Society's
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Department of Botany
Under the aegis of
DBT STAR COLLEGE SCHEME

Seminar Competition Date: 17/02/2026

RESULT

Sr. No.	Name of Student	Roll No.	Title of topic	Rank
01	Miss. Pratiksha Tanaji Gaikwad	45	Structure of Ovules and its types	I st
02	Miss. Diksha Adinath Patil	38	Conservation of Plant Diversity	II nd
03	Miss. Sakshi Vijay Tandale	33	Conservation of Biodiversity	III rd

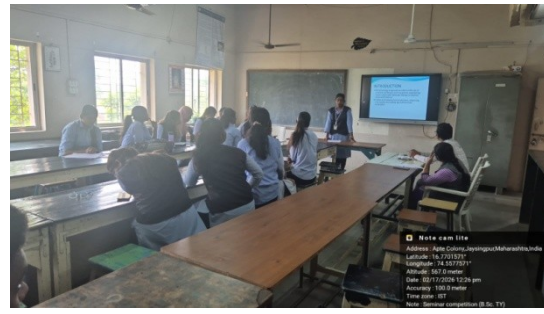

Dr. S. D. Umdale
Activity In-charge
Head,
Department of Botany

Evaluation

1st / 2nd / 3rd Prize Winners

The student choose the various topics of Botany such as Biofertilizers, Biopesticides, Economically important pants- Saffron, Biodiversity conservation, environmental science, Genetically Modified Crops. After the completion of the seminars, Dr. S. D. Umdale has congratulated student participants for active involvement in seminar competition. At the end of activity the student participants gave a short feedback about the competition. The vote of thanks was given by Miss. S. A. Magdum and concluded the seminar activity.





Glimpses of Seminar Competition (17.02.2026)

Dr. S. D. Umdale
Departmental Coordinator
DBT-Star College Scheme

Dr. S. R. Sabale
Coordinator
DBT-Star College Scheme

Prof. Dr. (Mrs.) M. V. Kale
Head
Department of Botany

Dr. S. A. Manjare
Principal
Jaysingpur College Jaysingpur



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany
Under the aegis of
DBT STAR COLLEGE SCHEME



Report of
An Invited Talk on -
'Sustainable Agriculture & Environment: Two Sides of the Same Coin'

On
18th February, 2026

Under the aegis of



DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology
Government of India

DBT-STAR COLLEGE SCHEME

AY-2025-26



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR

Department of Botany

Under the aegis of
DBT STAR COLLEGE SCHEME



ACTIVITY REPORT

Year:	2025-26
Name of the Activity:	An invited talk on "Sustainable Agriculture & Environment: Two Sides of the Same Coin"
Date:	18 th February, 2026
Venue:	Online Mode (Google Meet) Online Lecture link- https://meet.google.com/izq-gqzt-feq
Financial Assistance	DBT-STAR COLLEGE SCHEME
Program Coordinator:	Dr. Suraj D. Umdale
Resource persons:	Dr. Kumar Pranaw , Asso. Prof., School of Environmental Sciences, Jawaharlal Nehru University (JNU), New Delhi-110067, INDIA
Organised for: College/class/ staff	B. Sc. Students and staff
No. of Participants	35 (Online)+ 24 (Offline)= 59
Nature: (e.g. Academic, cultural, sports etc)	Co-curricular Activity
Objectives of the Activity	To understand the relationship between farming practices and soil health by applying Plant growth Promoting Bacteria
Short Report (in English)	The department of Botany organised a guest lecture on An invited talk on " Sustainable Agriculture & Environment: Two Sides of the Same Coin " on 18 th February 2026 at 11:00 am via. Online mode (Google Meet) and offline. A total 59 students and faculty staff was attended the lecture. During this lecture Dr. Kumar Pranaw explained the about the role of the Plant Growth Promoting Bacteria (PGPB) in improvement of soil fertility. He also gave a use of PGPB in agriculture and environment. The session highlighted how agricultural productivity is directly tied to natural resources like soil fertility, and biodiversity.



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany



**An invited talk on
'Sustainable Agriculture & Environment: Two Sides of the Same Coin'**

18th February, 2026

The department of Botany organised an invited talk on '**Sustainable Agriculture & Environment: Two Sides of the Same Coin**' on 18th February, 2026 at 11:00 am via. Hybrid mode-Online mode (Google Meet). A total 59 students and faculty staff was attended the lecture.

The lecture was started at 11:00 am by welcome of the resource person Dr. Kumar Pranaw, Asso. Prof., School of Environmental Sciences, Jawaharlal Nehru University (JNU), New Delhi. The program coordinator, Dr. Suraj Umdale (Asst. Prof.) welcome the resource person Dr. Kumar Pranaw, honourable principal Dr. Surat Manjare, Prof. Manisha V. Kale, Head, Department of Botany, Dr. Sandip Sabale, Coordinator, DBT-STAR College scheme and the student participants. After welcome note, he had given the brief introduction of the resource person, and shared the objectives of the program.

The lecture was started with discussion of the environmental issues such as greenhouse effect and global warming on the farming and crop productivity. He has shown serious concerns about the overuse of chemicals as fertilizers, pesticides and improper waste management practices. Later, he has well explained the role of Plant Growth promoting Bacteria (PGPB) in agriculture. He told that, PGPB will be used as alternative for chemical fertilizers and pesticides. He also focused on the use of PGPB in biotic and Abiotic stress mitigation. He has explained in detail the screening, in-vitro evaluation and efficacy of Plant Growth promoting Bacteria (PGPB).

After the talk, Prof. Manisha Kale, Head, Department of Botany appreciated the wonderful lecture given by Dr. Kumar Pranaw. In concluding remarks, Dr. (Mrs.) V. D. Dawande, Asst. Prof. Department of Botany, gave vote of thanks to resource persons for their valuable guidance, and Honourable principal Dr. Surat Manjare, Prof. Manisha V. Kale, Head, Department of Botany, Dr. Sandip Sabale, Coordinator, DBT-STAR College scheme, teachers and student participants. With the Chairperson's permission, he declared the program is over.



Anekant Education Society's

JAYSINGPUR COLLEGE JAYSINGPUR

DEPARTMENT OF BOTANY



DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology
Government of India

An Invited Talk On-
**"Sustainable Agriculture & Environment:
Two Sides of the Same Coin"**
Under the Aegis of
DBT-STAR COLLEGE SCHEME

RESOURCE PERSON



Dr. Kumar Pranaw

Associate Professor,
School of Environmental Sciences,
Jawaharlal Nehru University (JNU)
New Delhi-110067, INDIA



DATE- 18th February, 2026

TIME: 11:00 am Onwards



Google Meet

Online Lecture link-
<https://meet.google.com/izq-qqzt-feg>

Feedback form Link-
<https://forms.gle/8Zwb42FP9a4LvH57>

❖ Organizing Committee-

Mr. Chetan Chivate, Ms. Shweta Magdum, Dr. Varsha Dawande,
Dr. Pravin Karuna, Dr. Rupali Chougule

Dr. Suraj Umdale
Department Coordinator
DBT-Star College Scheme

Dr. Sandip Sabale
Coordinator
DBT-Star College Scheme

Prof. Manisha Kale
Head,
Department of Botany

Dr. Smita Mahajan
Head,
Faculty of Science

Dr. Surat Manjare
Principal,
Jaysingpur College Jaysingpur

Program Brochure

Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Estd. June 1964
1 Affiliated to Shivaji University, Kolhapur 1 Jain Minority College
1 Reaccredited at 'A' Grade (NAAC) 1 DST - FIST (Level - I) Sponsored
Address : Shirol-Wadi Road, Jaysingpur - 416 101, Dist. Kolhapur, State - Maharashtra, India
Prin. Dr. S.A. Manjare Tel. (0) 02322 - 225381 / 481 Website - www.jaysingpurcollege.edu.in E-mail - jpscollegejps@gmail.com

Ref. No. AES/JCJ/2025-26/e-mail Date: 05.02.2026

To,
Dr. Kumar Pranaw
Associate Professor,
School of Environmental Sciences,
Jawaharlal Nehru University (JNU)
New Delhi 110067, INDIA

Subject: Invitation as resource person for "Popular Lecture"

Respected sir,

With reference to the subject mentioned above, it gives us immense pleasure to invite you as a resource person for the 'Popular Lecture' organized by the Department of Botany, Jaysingpur College, Jaysingpur, on Wednesday, 18th February 2026. We appreciate your expertise in plant biotechnology and look forward to hearing your thoughts. Kindly, accept the same and enrich the knowledge of our students.

Date of Program: 18th February, 2026

With Best Regards,

Prof. (Dr) Mrs. M.V. Kale
Head
Department Of Botany

PRINCIPAL
Jaysingpur College, Jaysingpur

Invitation Letter

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Estd. June 1964
1 Affiliated to Shivaji University, Kolhapur 1 Jain Minority College
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Prin. Dr. S.A. Manjare Tel. (0) 02322 - 225381 / 481 Website - www.jaysingpurcollege.edu.in E-mail - jpscollegejps@gmail.com

Ref. No. AES/JCJ/2025-26/e-mail Date: 18.02.2026

To,
Dr. Kumar Pranaw
Associate Professor,
School of Environmental Sciences,
Jawaharlal Nehru University (JNU)
New Delhi 110067, INDIA

Subject: Letter of Appreciation

Respected Sir,

We are hearty thankful to you for accepting our invitation as a resource person and providing valuable guidance on topic 'Sustainable Agriculture & Environment: Two Sides of the Same Coin' organized by Department of Botany, Jaysingpur College Jaysingpur under aegis of DBT-STAR COLLEGE SCHEME on Wednesday, 18th February, 2026 at 11:00 am.

Expecting kind Co-operation in future

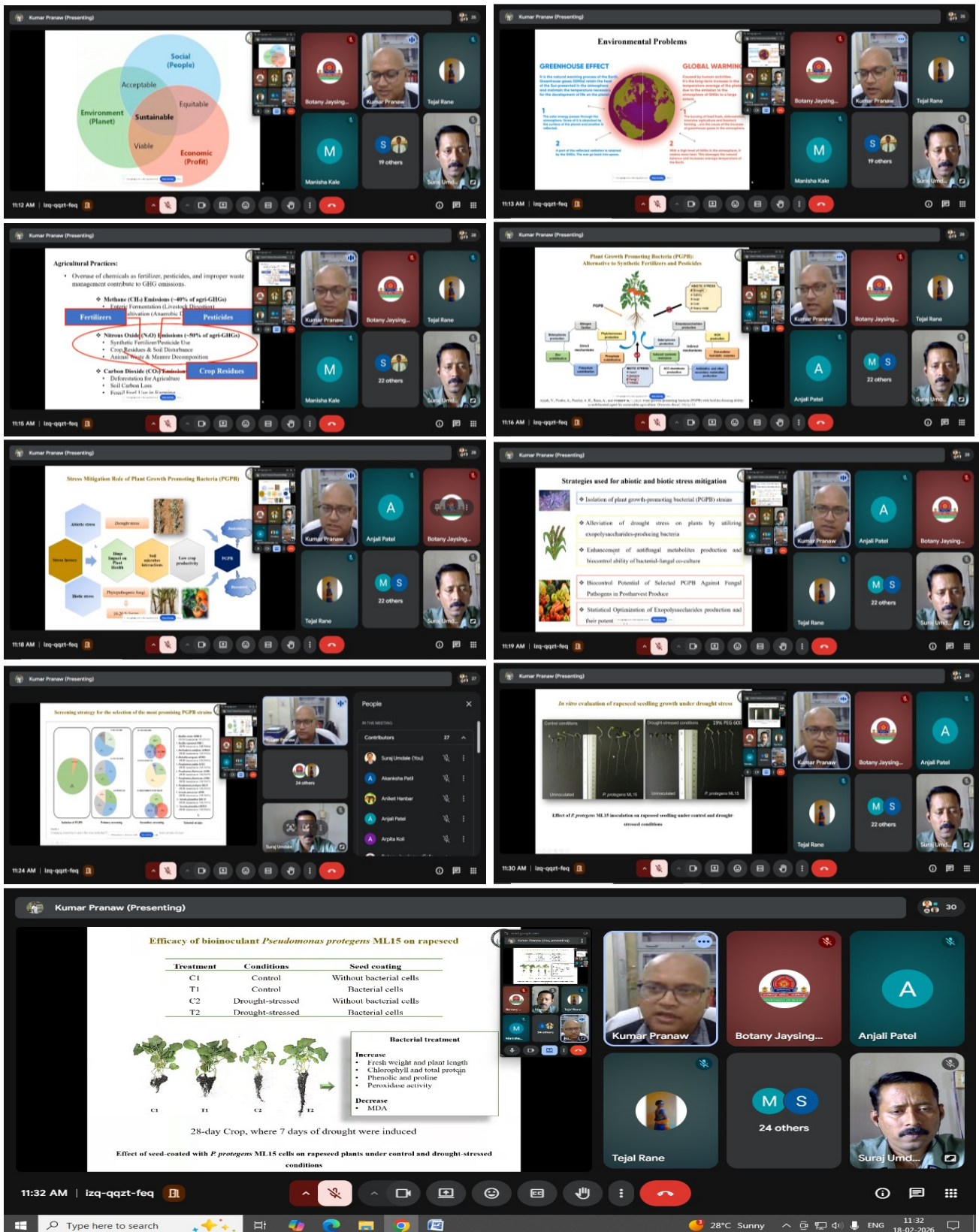
With Best Regards,

Prof. (Dr) Mrs. M.V. Kale
Head
Department Of Botany
Jaysingpur College, Jaysingpur

Dr. S. R. Sabole
Coordinator
DBT-Star College Scheme

PRINCIPAL
Jaysingpur College, Jaysingpur

Appreciation Letter



Glimpses of Invited Talk of - Dr. Kumar Pranaw

[Signature]
 Dr. S. D. Umdale
 Departmental Coordinator
 DBT-Star College Scheme

[Signature]
 Dr. S. R. Sabale
 Coordinator
 DBT-Star College Scheme

[Signature]
 Prof. Dr. (Mrs.) M. V. Kale
 Head
 Department of Botany

[Signature]
 Dr. S. A. Manjare
 Principal
 Jaysingpur College Jaysingpur



Anekant Education Society's
JAYSINGPUR COLLEGE, JAYSINGPUR
Department of Botany



Under the aegis of
DBT STAR COLLEGE SCHEME

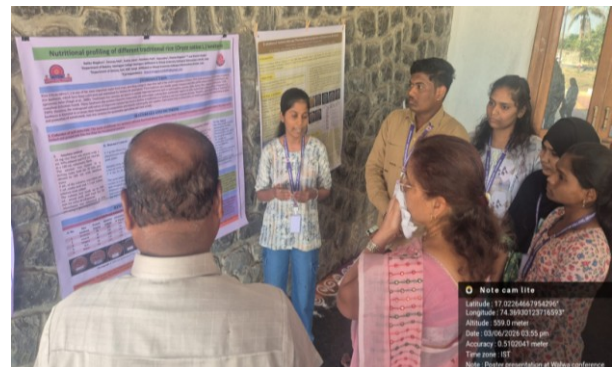
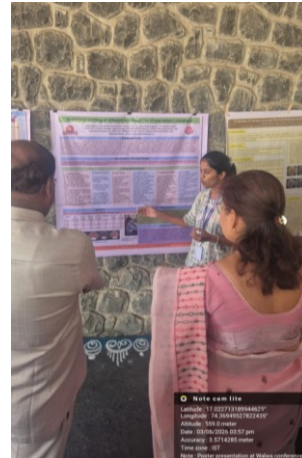
ACTIVITY REPORT

Year:	2025-26
Name of the Activity:	Participation in Two days 'International Conference on Changing Scenario in Science and Technology: A Multidisciplinary Approach (ICCSST-2026)'
Date:	06 th - 07 th March, 2026
Venue:	Krantisinh Nana Patil College, Walwa
Co-ordinator:	Dr. Suraj D. Umdale
Financial Support	DBT-STAR COLLEGE SCHEME
No. of Participants	4F (1 Staff)+ 01M =05 (1 Staff)
Nature: (e.g. Academic, cultural, sports etc)	Extracurricular Activity
Objectives of the Activity	<ul style="list-style-type: none">• To present their own research findings• Gain exposure to the latest research• To built research network with other scholars
Short Report (in English)	The five students of B. Sc. 2 (Botany) have been participated and presented the research poster in the international conference. The students have prepared the research posters on the project carried by students during academic year 2025-26.
Outcome/Remark	<ul style="list-style-type: none">• The students have received the knowledge of new research directions• Understand the effective communication skills with wider audience in the conference• The presentations skills and confidence of student participants have been improved.• They got exposure to for future research collaborations, and a boost to their academic and professional profile

STUDENT PARTICIPATION IN INTERNATIONAL CONFERENCE

2) Two days 'International Conference on Changing Scenario in Science and Technology: A Multidisciplinary Approach (ICCSST-2026)' on 6th to 7th March, 2026 organized by Krantsinh Nana Patil College, Walwa

Sr. No.	Name of Student	Title of Research Poster	Class
1	Miss. Ratika Magdum	Nutritional profiling of different traditional rice (<i>Oryza sativa</i> L.) landraces	B. Sc. II
2	Miss. Tanmay Mali		
3	Miss. Ankita mane		
4	Miss. Akanksha Patil		
5	Miss. Aqsa Jaina		
6	Miss. Shweta Magdum		



Nutritional profiling of different traditional rice (*Oryza sativa* L.) landraces



Ratika Magdum¹, Tanmay Mali¹, Ankita mane¹, Akanksha Patil¹, Aqsa jaina¹, Shweta Magdum^{1,2*} and Shivram Khadke¹
¹Department of Botany, Jaysingpur College Jaysingpur (Affiliated to Shivaji University Kolhapur) Maharashtra-416101, India
²Department of Botany, Smt. KWC Sangli (Affiliated to Shivaji University Kolhapur) Maharashtra-416101, India
 *Correspondence - shwetamagdum29495@gmail.com



INTRODUCTION

Rice (*Oryza sativa* L.) is one of the most important staple food crops, providing energy to more than half of the world's population (Juliano, 1993). India possesses a rich diversity of traditional rice landraces, which have been cultivated and maintained by farmers for generations. These landraces are valuable genetic resources and often exhibit unique nutritional, morphological, and agronomic traits (Singh et al., 2000). Traditional rice varieties are known to contain important nutrients such as carbohydrates, proteins, lipids, dietary fiber, vitamins, and minerals, which contribute to human health. Many landraces also possess bioactive compounds and antioxidants, making them nutritionally superior to some modern high-yielding varieties (Fitzgerald et al., 2009). However, the widespread cultivation of improved varieties has led to a decline in traditional rice landraces and loss of genetic diversity. Therefore, nutritional profiling of traditional rice landraces is essential to evaluate their biochemical composition and identify nutritionally rich varieties. Such studies help in conservation of valuable germplasm, crop improvement programs, and promotion of nutritionally rich rice varieties for sustainable agriculture and food security.

MATERIALS AND METHODS

1. Collection of seed materials: The seeds of different rice landraces collected from local farmers from Shirala Tehsil. Traditional rice landraces were collected and cleaned. The seeds were de-husked and ground into fine rice flour for biochemical analysis.

2. Biochemical analysis

I. Amylose content

10 mg rice flour was mixed with 1 mL 95% ethanol and 0.9 mL NaOH in a 100 mL volumetric flask. The mixture was heated in a boiling water bath for 10 min and diluted to 100 mL with distilled water. 5 mL of the solution was taken and 1 mL acetic acid and 1.5 mL iodine solution were added. The volume was made up to 100 mL, mixed well, and kept for 20 min for color development. Absorbance was measured at 620 nm using a spectrophotometer.

II. Moisture Content

2-3 g rice flour was placed in pre-weighed petri plates.

Samples were dried in a hot air oven at 105 ± 5 °C for 14-16 h.

The petri plates were cooled in a desiccator and weighed again. Moisture content (%) was calculated from the loss in weight.

III. Ash Content

5 g rice flour was taken in clay crucibles.

Samples were incinerated in a muffle furnace at 550 °C for about 7 h. Heating continued until light gray/white ash was obtained. After cooling, the samples were weighed and ash content (%) was calculated.

IV. Protein Content

Rice grain samples were powdered and extracted with buffer/distilled water. The extract was reacted with alkaline copper reagent followed by Folin-Ciocalteu reagent (Lowry method). The mixture was incubated for color development. Absorbance was measured at 660 nm using a spectrophotometer. Protein content was calculated using a BSA standard curve.

V. Carbohydrate Content

100 mg sample (powder) was hydrolyzed with acid and diluted with distilled water. Anthrone reagent was added to the extract and heated in a boiling water bath. A green color complex was developed after cooling. Absorbance was measured at 620 nm using a spectrophotometer. Total carbohydrate content was calculated using a glucose standard curve.

VI. Fat Content

Rice flour sample was taken and placed in a Soxhlet extraction apparatus. Petroleum ether was used as the solvent for extraction. The sample was continuously extracted until fat was completely removed. The solvent was evaporated and the extracted fat was weighed. Crude fat content (%) was calculated based on the weight of extracted fat.

RESULT

Table.1: Nutritional Composition of Rice Landraces (mg/g)

Sl. No.	Rice Landrace	Protein (mg/g)	Amylose (mg/g)	Carbohydrate (mg/g)	Fat (mg/g)	Moisture (mg/g)	Ash (mg/g)
1	Jordhala	78	240	760	12	120	11
2	Hawala	63	250	740	22	130	10
3	Mogara	85	280	750	18	115	9
4	Taak	98	230	770	9	125	12
5	Wanar	89	210	730	14	135	11



Photograph.1: Different landraces of rice



Photograph 2: Performing Spectrophotometer

DISCUSSION

The nutritional analysis showed considerable variation among the rice landraces. Protein content ranged from 63-98 mg/g, with Taak showing the highest value. Amylose content varied between 210-280 mg/g, where Mogara recorded the highest level, indicating firmer cooked rice texture. Carbohydrate content ranged from 730-770 mg/g, confirming that carbohydrates are the major component of rice grains. Fat content was low (9-22 mg/g), which is typical for rice. Moisture content ranged from 115-135 mg/g, suitable for safe storage, while ash content (9-12 mg/g) indicates the presence of essential minerals.

CONCLUSION

The study revealed significant variation in the nutritional composition of different rice landraces. The results showed differences in protein, amylose, carbohydrate, fat, moisture, and ash content among the varieties. Taak and Mogara exhibited comparatively higher nutritional values in certain parameters. These findings indicate that traditional rice landraces possess valuable nutritional diversity and can be important resources for nutritional improvement, conservation, and rice breeding programs.

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