



Criterion 2 - Teaching-learning and Evaluation

Key Indicator 2.3 Teaching- Learning Process

Metric No. 2.3.1

Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences.

HANDS-ON TRAINING / WORKSHOPS

PUNE DISTRICT EDUCATION ASSOCIATION'S

Waghire College of Arts, Commerce and Science,

Saswad, Tal - Purander, Dist - Pune

ACADEMIC YEAR - 2021-2022

Department of Botany

One day workshop on "BUTTON MUSHROOM CULTIVATION"

28th February 2022 at 10.30 am onwards

One day workshop on "BUTTON MUSHROOM CULTIVATION" was organised by department of Botany and funded by DBT STAR Scheme. The schedule of the program is given as follows.

Sr.No.	Name of the resource Person	Date	Time
1	Dr.ArvindeRabba	28/02/2022	Inauguration Function 10.30am to 11.00 am Ist session -11.00 am to 2.30 pm IInd session - 3.00 pm to 5.00 pm

Guest invited for this one-day workshop was Dr.ArvindeRabba,International consultant, Button mushroom technologies.During1st session, he guided students by sharing various concepts related to button mushroom cultivation with slide show. He also shared how this mushroom cultivation is beneficial as a business in human society as well aware about nutritional value of mushroom.In present scenario. This mushroom cultivation technique is the best business which is commercially important and carrier oriented. It's a good opportunity for students to build up their career.

During second session of workshop, he explained this concept in details.Also,hands on training were given with demonstrations. He also answers the queries by the participants. In all sessions,total 93 participants attended this one-day workshop as well give their positive feedback regarding the same.

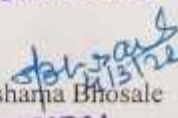

Dr.S.A.Kalhapure

Activity co-ordinator


Dr.S.S.Kastap
HEAD

Department of Botany
Waghire College of Arts, Commerce and Science
Saswad, Tal - Purander, Dist - Pune


Dr.V.V.Patankar
Co-ordinator, DBT-STAR scheme
DBT-STAR College


Dr.Sushama Bhosale
PRINCIPAL
Waghire College of Arts, Commerce and Science
Saswad, Tal - Purander, Dist - Pune.



Latitude: 18.354797
Longitude: 74.02591
Elevation: 791.56±1 m
Accuracy: 9.4 m
Time: 02-28-2022 15:23



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Longitude: 74.025929
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Time: 02-28-2022 13:03

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Longitude: 74.025898
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SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

P.D.E.'s

WAGHIRE COLLEGE OF ART'S COMMERCE & SCIENCE, SASWAD

Tal Purandar, Dist Pune-412301, Maharashtra (India)

Workshop on

“Commercial Button Mushroom Cultivation” 28th Feb 2022

On the Occasion of National Science Day

(Under DBT Star College Scheme)

Registration

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22/10/22

Session I

N:15

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4.)	Gaikwad Poonam Rajaram	S.Y. BSc	Gaikwad
5.	Khedekar Harshada Bapu	S.Y. B.Sc	Khedekar
6.	Tilekar Snehal Ravindra	SY BSc	Tilekar
7.	Khomane Rutuja Rishikesh	SY BSc	Khomane
8.]	Kapare Priti Kailas	SY BSc	Kapare
9.	kumbharkar Akanksha Dattatray	S.Y. BSc S.Y. BSc	Kumbharkar
10.	Kumbharkar Divya Ganpat	FY BSc	Kumbharkar
11.	Shinde Poorva Satish	Fy BSc	Shinde
12.	Kumbhar Vaishnavi Dnyaneshwar	Fy BSc.	Kumbhar
13.	Chavhan Shanti Subhash	F.Y. BSc	Chavhan
14.	Pawar Shivani Chandrakant	F.Y. BSc	Pawar
15.	Bankar Karishma Dattatray.	F.Y. BSc	Bankar
16.	Mulani Afroz Rafik.	F.Y. BSc	Mulani
17.	Shinde Sweety Ramesh.	F.Y. BSc.	Shinde
18.	Ahire Mansi Sunil	F.Y. BSc.	Ahire
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34.]	M.P. Megha Manu	S.Y. BSc F.Y. BSc	Megha

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14	More Mayur Somnath	SY BSC	<u>Mayur</u>
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16	Kadam Rushikesh Santosh	SY BSC	<u>Rushikesh</u>
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23	Badadhe Akash Gulab	F.Y. BSC	<u>Akash</u>
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25	Kamthe Mayur Raghunath	F.Y. BSC	<u>Mayur</u>
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28	Adak Atharava Ganesh	FY BSC	<u>Atharava</u>

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32	Mahajan Shivani Jitendra	F.Y.B.Sc.
33	Kalake Priya Hanuman	F.Y.B.Sc.
34	Yadav Pratibha Sukhdev	F.Y.B.Sc.
35	Pawar Pradnya Santosh	F.Y.B.Sc.
36	Kapare Tanuja Rajendra	F.Y.B.Sc.
37	Baravkar Pooja Lalaso	F.Y.B.Sc.

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8. Mahajan Shivani Jilendra	F.Y. BSC	<u>Mahajan</u>
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13. Yadav Ravina Goraksh	S.Y. BSC	<u>Yadav</u>
14. Pawar Mayuri Narayan	F.Y. BSC	<u>M.N. Pawar</u>
15. Jagtap Dipti Govind	F.Y. BSC	<u>Jagtap</u>
16. Jagdale Vaishnavi Subhash	F.Y. BSC	<u>Jagdale</u>
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22. Jagtap Neha Shantaram	S.Y. BSC	<u>Jagtap</u>
23. Shendkar Pradnya Vishwas	S.Y. BSC	<u>Shendkar</u>
24. Pise Anushka Santosh	S.Y. BSC	<u>Pise</u>
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33	Kumbharkar Akanksha Dattatray	S.Y. BSc	<u>SA</u>
34	Tilekar Snehal Ravindra	S.Y. BSc	<u>Aneshwar</u>
35	Chive Vaishnavi Deashdrath	S.Y. BSc	<u>Whivhe</u>
36	Pawar Vaishnavi Vishwas	S.Y. BSc	<u>V.V. Pawar</u>
37	Baravkar Pooja Lalaso	FY. BSc	<u>Baravkar</u>
38	Kapare Tanuja Rajendra	FY. BSc	<u>T.R. Kapare</u>
39	Phadotore Aditi Madhukar	FY. BSc	<u>Aditi</u>
40	Phadotare Aditi Sunil	FY BSc	<u>Aditi</u>
41	Ahire Mansi Sunil	FY BSc	<u>Ah</u>
42	Bharati Sakshi Suresh	F.Y. BSc	<u>Ahise</u>
43	Tekawade Dnyaneshwari Baburao	F.Y. BSc	<u>Baburao</u>
44	Kapare Sakshi Hindurav	FYBSc	<u>Dikade</u>
45	Bhongale Sanika Sanjay	FYBSc	<u>Sanika</u>
46	Janrao Kranti Dayanand.	Fy Bsc	<u>Bhongale</u>
47	Chavhan Shanti Subhash	FYBSc.	<u>Shanti</u>
48	Kumbhar Vaishnavi Dnyaneshwar	Fy. BSc	<u>SSC</u>
49	Patole Sheetal Ravindra	FY BSC	<u>Sheetal</u>
50	Pawar Shivani Chandrakant	F.Y. BSc	<u>Patole</u>
51	Kumbharkar Divya Ganpat	FY. BSc	<u>Pawar</u>
52	Shinde Poorva Satish	FYBSc FyBsc	<u>Shinde</u>

SECTION II

Name of Student

Class

Sign

Rawade Yash Lahu

FY BSc Rawade

Koman Omkar Sandip

FY BSc Koman

Kadom Rushikesh Santosh

SY BSc Kadom

Ranjane Ajay Maruti

fy bsc Ranjane

Choudhari Rutik Ravindra

SY BSc Choudhari

Barkade sunil Aba

FY BSc Barkade

Lekawle Mahesh Sanjay

FY BSc Lekawle

Kamthe Mayur Raghunath

F.Y. BSC Kamthe

Pawar Adarsh Mahendra

FY BSc Pawar

Adak Atharva Geamesh

FY BSc Adak

11) Mhetre Abhishek Rajendra

FY BSC Abhishek

12) choure saurabh Prada

FY BSC Choure

13) Waghre Shubham Anil

BY BSC Waghre

14) Deshpande Amit Dinkar

BY BSC Deshpande

15) Kapane Yash Arun

SY BSC Kapane

16) Jodav Mayur Mahesh

SY BSC Jodav

17) Katarke Ashit Dnyanobha

F.Y. BSC Katarke

18) Sonawane Jyoti Dattatray

F.Y. BSC Sonawane

19) Bhondave Shunkar Dipak

F.Y. BSC Bhondave

20) Badadhe Akash Gulab.

F.Y BSC Badadhe

21) Yadav Omkar Arun

FY BSC Yadav

22) Barge Siddhant Chandrashekhar

FY BSC Barge

23) Yadav Shubham Sudam

FY BSC Yadav

24) Barkade Prasad Balu

SY BSC Barkade

25) Pawar Pranav Subhash

SY BSC Pawar

26) More Mayur Somnath

SY BSC More

27) Shinde Prashant Pralhad

SY BSC Shinde

28) More Aditya Pandurang

SY BSC More

29) Kale Pratik Sanjay

SY BSC Kale

30) Barkade Rutvik Subhash

SY BSC Barkade

31) Khaladkar Pranav Suresh

FY BSC Khaladkar



Pune District Education Association's

Waghire College of Arts, Commerce and Science

Saswad

Tal- Purandar Dist- Pune,

ORGANIZED BY

DEPARTMENT OF BOTANY

"One Day Workshop on "Button Mushroom Cultivation"

(28 Feb.2022)

CERTIFICATE OF PARTICIPATION



University of Pune

This is to certify that Pawar Ankita Ramdas of
F.Y. B.Sc. has attended **One Day Workshop on "Button**

Mushroom Cultivation" organized on 28/02/2022. We appreciate and thank his/her active participation.

Co-ordinator

Principal

**PDEA's Waghire College,
Department of Zoology**

**Report on One day Workshop on Honey Bee handling and Practical's related
to it conducted by Zoology Department
under the DBT- STAR College Scheme**

2021-2022

Under the funding of the DBT-STAR College Scheme, the Zoology department of Waghire College, Saswad organized One Day Online Workshop on Honey Bee handling and Practical's related to it like Extraction of honey, Beewax, Propolis, Pollen from honey bee combs and Extraction of bee venom from honey bees under the DBT-STAR College Scheme for the students of S.Y.B. Sc Zoology on 22nd January 2022.

The Workshop was organized under the guidance of Dr. B.U. Mane, Head of Zoology Department, Waghire College, Saswad and was inaugurated at the hands of Vice Principal of Waghire College, Dr. Subhash S. Wavhal. The Resource persons who guided the Students were Apiculture Experts Shri. Prashant Gavade and Shri. Sachin Kshirsagar, both from Krishi Vidhnyan Kendra (KVK), Baramati, Pune. 65 students were benefited from this workshop.



Inauguration of One day Workshop and Felicitation of Resource persons

After the Inaugural and Felicitation, Shri. Prashant Gavade explained to the Students in the first part of Workshop – Concept of Apiculture; Ecological and economical Importance of honeybees; Honey yielding different bee families; Types of honeybees and their habits, habitat and nesting behaviour; Life cycle of honeybees; the caste system and division of labour followed by honeybees; Role of different castes in maintaining the colony; Difference between the different species; Economically important and cultivable bee species in Indian environment. Shri. Gavade and Shri. Kshirsagar also showed and explained the rearing equipments like Langstroth Bee box, Honey extractor, smoker, overall, bee gloves, high boots and bee veil used in beekeeping to the students



Shri. Prashant Gavade explaining the Economic importance of honeybees to Human beings



Shri. Gavade explaining the different equipments used in Apiculture or Beekeeping

While dealing with the practical part of the Workshop related to Apiculture, he explained Honey production and storage process done by bee; Difference between ripe and unripe honey; Extraction of honey from sealed honey frames.

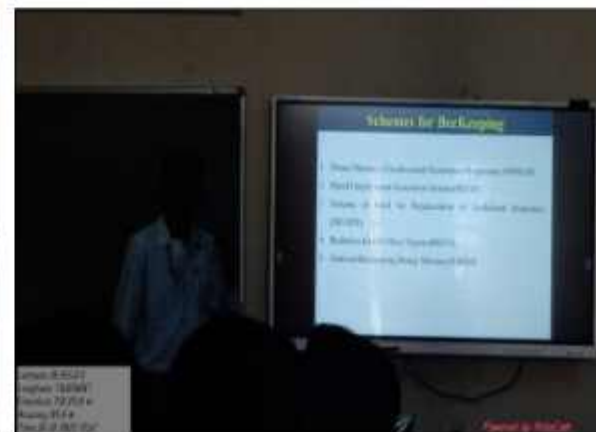
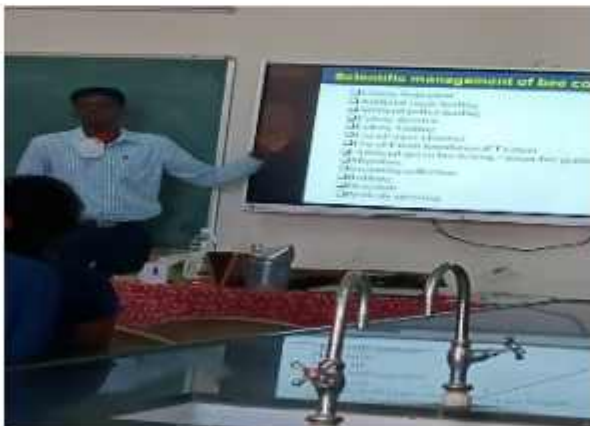
He also explained the beeswax extraction, bee venom extraction, royal jelly extraction and pollen extraction by showing the students the pollen trap used for extracting pollens loaded by honeybees and rearing cups used for artificial queen rearing process and collection of royal jelly.



Artificial Queen rearing and Royal jelly collection cups Pollen traps used for pollen collection from honeybees

Shri. Gavade and Kshirsagar also explained that depending upon the seasons and availability of nectar and pollens, the honeybees show certain behaviour which need to be identified by the beekeeper. In order to sustain the bee colony in an apiary, the beekeeper also needs to have knowledge of Seasonal and Scientific Management of bees.

Status of Beekeeping in the world and in India, Requirements for Apiculture setup and different Government schemes made available to entrepreneurs in Apiculture were also explained to students..



Shri. Gavade explaining the Seasonal management, scope for beekeeping, its global status and the various schemes made available to entrepreneurs in Apiculture.



Feedback and Valedictory function of Workshop on Honey Bee handling and Practical's related to it

Dept. Co-ordinator

Head of Department

DBT Co-ordinator

Principal



सासवड (ता. पुरंदर) : मधुमक्षिका पालन तंत्रज्ञान प्रशिक्षणाप्रसंगी उपस्थित विद्यार्थी. सकाळ : दत्ता भोंगळे

वाघिरे महाविद्यालयात मधुमक्षिका पालन प्रशिक्षण

सासवड शहर, ता. २९ : सासवड (ता. पुरंदर) येथील पुणे जिल्हा शिक्षण मंडळाचे वाघिरे महाविद्यालय सासवड व ऑग्निकल्चर डेव्हलपमेंट ट्रस्ट संचलित कृषी विज्ञान केंद्र, बारामती यांच्या संयुक्त विद्यमाने, डी. बी. टी. स्टार कॉलेज योजनेतर्गत एक दिवसीय शास्त्रीय मधुमक्षिका पालन तंत्रज्ञान प्राणिशास्त्र विभागाचा प्रशिक्षण कार्यक्रम प्राचार्य डॉ. सुषमा भोसले यांच्या मार्गदर्शनाखाली पार पडला.

कार्यक्रमाच्या उद्घाटनप्रसंगी प्राणिशास्त्र विभाग प्रमुख डॉ. बबन माने यांनी सदर परिसरातील निरनिराळ्या पिकांसाठी मधमाशी किती महत्त्वाची आहे, याबाबत माहिती दिली. महाविद्यालयीन विद्यार्थ्यांनी मधमाशी पालनाचे तंत्रज्ञान आत्मसात करून मधमाशी व त्यापासून मिळणारे विविध पदार्थ याचा अभ्यास करून विद्यार्थ्यांनी व्यावसायिक बनावे असे आवाहन केले.

कृषी विज्ञान केंद्र, बारामतीचे मधमाशी तज्ञ प्रशांत गावडे यांनी मधमाशीपासून मिळणारे निरनिराळे पदार्थ, मधमाशीच्या विविध जाती,

मधमाशीचे परागीभवनात महत्त्व, मधमाशी पालनासाठी योग्य जातीची निवड, मधमाशीची हाताळणी, योग्य पद्धतीने शुद्ध मधाची काढणी, मधमाशी पालनासाठी लागणारे विविध साहित्य इत्यादी गोष्टींची माहिती दिली. तसेच प्रक्रिया उद्योगासाठी प्रधानमंत्री सूक्ष्म अन्न प्रक्रिया उद्योग योजना (PMFME) याबद्दल माहिती दिली.

वाघिरे महाविद्यालयाचे उपप्राचार्य डॉ. सुभाष वाव्हळ यांनी विद्यार्थ्यांना मधमाशी हा कीटक पर्यावरण आणि इको सिस्टीमसा किती महत्त्वाचा आहे, याविषय मार्गदर्शन केले. यावेळी प्राणिशास्त्र विभागातील प्रा. सुनील कोकरे, १ अभिजित देशमुख, कृषी विज्ञान केंद्र बारामतीचे सचिन क्षीरसागर यांच्यासह महाविद्यालयातील ६५ विद्यार्थी उपस्थित होते. हा कार्यक्रम यशस्वी होण्यासाठी अमोल भोसले, नवनाथ उरसळ आणि रोहिणी नेवसे यांनी प्रयत्न केले. डॉ. भाग्यश्री मदभावीकर यांनी उपस्थित विद्यार्थ्यांचे, शिक्षकांचे व कृषी विज्ञान केंद्राच्या अधिकाऱ्यांचे आभार मानले.

Newspaper clip on News published in Local newspaper "Sakaal" on 30th January, 2022

Dept. Co-ordinator

Head of Department

DBT Co-ordinator

Principal

**PDEA's Waghire College,
Department of Zoology
Report on One day Hands on Training on Honey Bee handling conducted by
Zoology Department under the DBT- STAR College Scheme
2021-2022**

Under the funding of the DBT-STAR College Scheme, the Zoology department of Waghire College, Saswad organized Hands on Training on Honey Bee handling for the Teaching and Non-teaching staff of Zoology department, S.Y.B. Sc Zoology students and nearby farmers on 2nd February, 2022.



Hands on Training on Honey bee handling organised on 2nd February, 2022 in Waghire College campus

The Hands on Training Workshop was organized under the guidance of Dr. B.U. Mane, Head of Zoology Department, Waghire College, Saswad and conducted by Resource persons Shri. Prashant Gavade and Shri. Sachin Kshirsagar, from Krishi Vidhyan Kendra (KVK), Baramati, Pune. Along with the 4 Zoology department faculty members, 73 people benefited from this workshop out of which 11 people were nearby farmers and 62 were S.Y.B. Sc students.

Shri. Prashant Gavade and Shri. Kshirsagar explained to the Farmers and students the ecological and economical importance of Honey bees and placed the Langstroth bee-boxes in the College Botanical garden. They then showed the everyone how to Hive the colony from old colony frames into the new unoccupied frames of the new bee boxes.



Hands on Training on Honey bee handling to the nearby farmers

While setting up the bee boxes in the botanical garden, they explained how to setup the bee box, its direction, height from the ground and the location in which to place based on the availability of flora, nectar and water. The care and Precautionary measures to be implemented and followed after the setting up of an Apiary were also explained. They also explained

morphology of the worker, drone and the queen honey bee and the significance of the Queen bee in the colony.

During the actual colony hiving process they showed all those assembled there how to identify the queen from the workers within the colony and how to transfer her into the new bee boxes. With the entrance of the Queen bee in the bee box, all the workers enter the bee box and the process of hiving is completed. Thereafter, the bee boxes were installed in the botanical garden which will serve as an Apiary for the college.



Hiving process of Bee colonies obtained from KVK, Baramati in New Departmental Bee boxes

After the hiving process, the resource people explained the difference between Ripe and Unripe honey and showed the process of Honey extraction from sealed honey comb frames. The assembled mob devoured the sweet honey after the honey extraction process. During all these process the use of the beekeeping equipments like Hive tool, Bee-veil, Overall, gloves, Bee boxes, smoker etc. procured by the Zoology department under the DBT STAR College Scheme was done.



Overall the Hands on Training organised by the Department of Zoology under the DBT STAR College Scheme was a successful programme which motivated many students in terms of Entrepreneurship in Apiculture.

Dept. Coordinator

Head of Department

DBT Co-ordinator

Principal



Pune District Education Association's
Waghire College of Arts, Commerce and Science
Saswad



Tal- Purandar Dist- Pune,
ORGANIZED BY

DEPARTMENT OF ZOOLOGY

"One Day Workshop on "Honey Bee Handling & Practicals"
(22nd January 2022)

CERTIFICATE OF PARTICIPATION

This is to certify that Ms. Shirshat Vaishnavi Ramesh of
S.Y.B.Sc has attended **One Day Workshop on "Honey
Bee Handling & Practicals"** organized on 28/02/2022. We appreciate and thank his/her active
participation.

Bhool
Co-ordinator

P
Principal

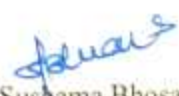
PDEA'S
Waghire College of Arts Commerce and Science,
Saswad, Tal-Purandar, Dist-Pune

**TWO DAYS HANDS ON WORKSHOP
ON
"PLANT TISSUE CULTURE"
(7th & 8th March 2022)**

On the occasion of National Science Day, we have organized the Two days Hands-onworkshop on Plant Tissue Culture. This workshop was conducted to get an insight into all the techniques of Plant tissue culture from basic to advance culture like Agrobacterium-mediated transformation. The Guest speaker and demonstrator of this workshop is Dr. Pradnya Kedari, ex-project Manager of the Plant Tissue culture division of Agarkar Research Institute, who has good experience in Plant Tissue Culture techniques. She has also emphasized how this skill is useful to get jobs and the importance of this technique in plant Biotechnology. In this workshop, 47 students have been registered from TY, SY, and a few FY classes of BSc Botany and completed hands-on training. With that, all 6 faculties of the Botany department are involved in this workshop. In this workshop first, welcome functions were conducted and proceeded with theoretical knowledge on PTC, and then hands-on experiments on tissue culture technique from media preparation to inoculation of seed, embryo, shoot, and leaf culture were performed. On the next day of the workshop theoretical explanation and practical on transformation and synthetic seed preparation were performed by students.


Dr. Vidya Patankar
Workshop Ast. Coordinator
Co-Ordinator
DBT- STAR College

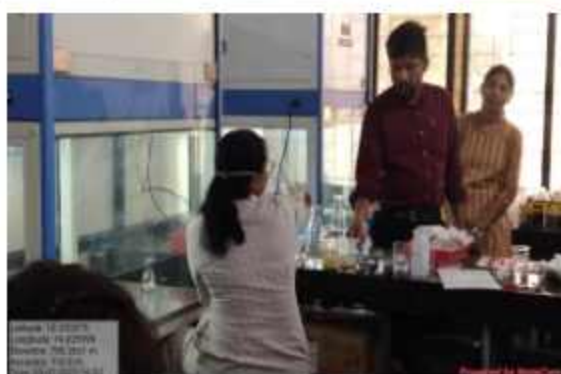

Dr. S. S. Jagtap
Wokshop Coordinator
HEAD
Department of Botany
Waghire College, Saswad
Tal. Purandar, Dist. Pune


Dr. Sushama Bhosale
PRINCIPAL
Principal
Waghire College, Saswad
Tal. Purandar, Dist. Pune.

Photographs of Plant Tissue Culture Workshops (7th -8th March 2022)



Inauguration program, Theory & Practicals sessions during workshop on 7th March 2022



Practicals performed by students during workshop on 7th & 8th March 2022



Feedback from students on last day of workshop on 8th March 2022

[Signature]
 Dr. Vidya Patankar
 Workshop Ast. Coordinator
Co-Ordinator
DBT-STAR College


[Signature]
 Dr. S. S. Jagtap
 Wokshop Coordinator
HEAD
Department of Botany
 Waghri College, Saswad
 Tal. Purandar, Dist. Pune


[Signature]
 Dr. Sushama Bhosale
PRINCIPAL
 Principal
 Waghri College, Saswad
 Tal. Purandar, Dist. Pune.


Feedback of students

Timestamp	Email address	Full Name of the participant	Class	topic?	organization?	informative?	compare to expectation?
3-8-2022 16:08:05	rohitkatak36@gmail.com	Katake Rohit Dnyanoba	S. Y. B. Sc.	Excellent	4	5	Excellent
3-8-2022 16:08:06	svc42531@gmail.com	Chauhan Shailesh Vijay	S. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 16:08:30	anaghadeshpande2550@gmail.com	Deshpande Anagha Umesh	S. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 16:08:30	vaishnavichivhe3233@gmail.com	Chivhe Vaishnavi Dashrath	S. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 16:08:35	vaishnavipawar3233@gmail.com	Pawar Vaishnavi vishwas	S. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 16:08:43	golepratik01@gmail.com	Gole pratik sanjay	S. Y. B. Sc.	Excellent	4	5	Excellent
3-8-2022 16:08:48	yashkapare2191@gmail.com	Kapare yash arun	S. Y. B. Sc.	Excellent	3	5	Good
3-8-2022 16:09:21	mayurmore770@gmail.com	More Mayur Somnath.	S. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 16:09:21	rushisantoshkadam111@gmail.com	Kadam Rushikesh santosh	S. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 16:09:24	deokaramit2799@gmail.com	Deokar Amit Dinkar	S. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 16:09:33	anushkapise2020@gmail.com	Pise Anushka Santosh	S. Y. B. Sc.	Good	2	3	Good
3-8-2022 16:09:44	apekshadhmal01@gmail.com	Dhumal Apeksha Ramesh	S. Y. B. Sc.	Excellent	2	3	Good
3-8-2022 16:09:46	bankarkarishma58@gmail.com	Bankar Karishma Dattatray	F. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 16:09:52	khedekarharshada2@gmail.com	Khedekar Harshada Bapu	S. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 16:09:58	pradnyashendkar7@gmail.com	Shendkar pradnya vishwas	S. Y. B. Sc.	Good	3	5	Good
3-8-2022 16:09:58	guravviraj123456@gmail.com	Gurav viraj vijay	S. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 16:10:02	rutujakakade147@gmail.com	Kakade Rutuja Bajarang	S. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 16:10:07	supriyana1530@gmail.com	Nale supriya subhash	S. Y. B. Sc.	Excellent	3	5	Good
3-8-2022 16:10:07	prasadbarkade2503@gmail.com	Barkade Prasad Balu	S. Y. B. Sc.	Good	5	5	Good
3-8-2022 16:10:10	truptithikolekt@gmail.com	Thikole Trupti Anna	S. Y. B. Sc.	Good	4	4	Good
3-8-2022 16:10:11	khomanerutuja22@gmail.com	Khomane Rutuja Rishikesh	S. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 16:10:13	Nikitasamgir1105@gmail.com	Samgir Nikita Tanaji	S. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 16:10:16	tilekarsnehal1@gmail.com	Tilekar snehal Ravindra	S. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 16:10:18	sweetyramesh0771@gmail.com	Shinde Sweety Ramesh	F. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 16:10:18	svc42531@gmail.com	Chauhan Shailesh Vijay	S. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 16:10:19	pritikapare2002@gmail.com	Kapare priti kailas	S. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 16:10:19	pradnyapawar1820@gmail.com	Pawar Pradnya Santosh	F. Y. B. Sc.	Excellent	5	5	Good
3-8-2022 16:10:38	pradnyapangare1104@gmail.com	Pangare Pradnya Rajesh	S. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 16:10:41	nmc010101@gmail.com	Chauhan Neelam Mahendra	F. Y. B. Sc.	Excellent	5	5	Good
3-8-2022 16:10:51	shwetakale732@gmail.com	Kale Shweta Sanjay	S. Y. B. Sc.	Excellent	5	5	Good
3-8-2022 16:11:09	Shubhamshinde2959@gmail.com	Shinde Shubham Uttam	T. Y. B. Sc.	Excellent	5	5	Excellent

3-8-2022 16:11:24	sweetyramesh0771@gmail.com	Mulani Afroz Rafik	F. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 16:11:40	priyankagaikwad1947@gmail.com	Gaikwad priyanka murlidhar	T. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 16:12:13	nehajagtap992001@gmail.com	Jagtap neha shantaram	S. Y. B. Sc.	Good	4	4	Good
3-8-2022 16:12:35	kharatpreeti60@gmail.com	Kharat Preeti Prakash	T. Y. B. Sc.	Excellent	5	4	Excellent
3-8-2022 16:12:35	rushikesh3596@gmail.com	Chalekar Rushikesh Maruti	T. Y. B. Sc.	Excellent	4	5	Excellent
3-8-2022 16:12:37	avantigirme2002@gmail.com	Girme Avanti Navinchandra	T. Y. B. Sc.	Good	4	5	Good
3-8-2022 16:13:14	nishantdamiste7442@gmail.com	NISHANT VISHNU DAMISTE	T. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 16:13:21	1234567megha@gmail.com	M. P Megha Manu	F. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 16:14:53	sachinnatkar5@gmail.com	Natkar Sachin Mohan	T. Y. B. Sc.	Good	5	5	Excellent
3-8-2022 16:37:52	akankshakumbharkar1224@gmail.com	Kumbharkar Akanksha Dattatray	S. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 16:46:48	mayurita Kawale1@gmail.com	Takawale Mayuri Shrirang	S. Y. B. Sc.	Excellent	5	4	Excellent
3-8-2022 16:48:20	kalesaloni7999@gmail.com	Kale Saloni Sandeep	S. Y. B. Sc.	Excellent	5	4	Excellent
3-8-2022 16:49:11	muliktanu9@gmail.com	Mulik Tanuja Jalindar	S. Y. B. Sc.	Excellent	5	4	Excellent
3-8-2022 17:07:12	afrozmulani135@gmail.com	Mulani Afroz Rafik	F. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 17:32:08	vaishnavij962@gmail.com	Jagdale Vaishnavi Subhash	F. Y. B. Sc.	Excellent	5	5	Excellent
3-8-2022 17:52:13	garudshivam1@gmail.com	Garud shivam vyanktrao	S. Y. B. Sc.	Excellent	4	4	Excellent
3-8-2022 17:57:08	prasadtekawade4332@gmail.com	Tekawade Prasad Shivaji	S. Y. B. Sc.	Good	5	4	Excellent
3-9-2022 9:14:50	balgudesupriya10@gmail.com	Balgude Supriya Rajendra	T. Y. B. Sc.	Excellent	5	5	Good


Dr. Vidya Patankar
Workshop Ast. Coordinator
Co-Ordinator
DBT- STAR College


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Wokshop Coordinator
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Dr. Sushama Bhosale
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Pune District Education Association's

WAGHIRE COLLEGE OF ARTS, COMMERCE AND SCIENCE, SASWAD



University of Pune

Tal- Purandar Dist- Pune,

DEPARTMENT OF BOTANY

Two Days Hand's On Workshop on


"PLANT TISSUE CULTURE"

(07/03/2022 to 08/03/2022)

CERTIFICATE OF PARTICIPATION

This is to certify that Goale pratik sanjay of
S.Y. B.Sc. has attended Two Days Workshop on "**Plant
Tissue Culture**" organized on **07/03/2022 to 08/03/2022**. We appreciate and thank his/her active
participation.


Co-ordinator


Principal

PUNE DISTRICT EDUCATION ASSOCIATION'S
Waghire College of Arts, Commerce and Science,
Saswad, Tal - Purandar, Dist -Pune
ACADEMIC YEAR - 2022-2023
Department of Botany
Training program on "MUSHROOM CULTIVATION"
16 July 2022 at 10.30 am onwards

One day workshop on "BUTTON MUSHROOM CULTIVATION" was organised by department of Botany and funded by DBT STAR Scheme. The schedule of the program is given as follows.

Sr.No.	Name of the resource Person	Date	Time
1	Dr. Arvinda Rabba	16/07/2022	Inauguration Function 10.30am to 11.00 am Ist session - 11.00 am to 2.30 pm IInd session - 3.00 pm to 5.00 pm

Guest invited for this one-day workshop was Dr. Arvinda Rabba, International consultant, Button mushroom technologies. During 1st session, he guided students by sharing various concepts related to button mushroom cultivation with slide show. He also shared how this mushroom cultivation is beneficial as a business in human society as well aware about nutritional value of mushroom. In present scenario. This mushroom cultivation technique is the best business which is commercially important and carrier oriented. It's a good opportunity for students to build up their career.

During second session of workshop, he explained this concept in details. Also, hands on training were given with demonstrations. He also answers the queries by the participants. In all session Total 50 participants attended this one-day workshop as well give their positive feedback regarding the same.



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Waghire College, Saswad,
Tal. Purandar, Dist. Pune



Mushroom Cultivation

Dr. S. A. Kalhapure
Activity co-ordinator

Dr. V. V. Patankar
Co-Ordinator
Coordinator, DBT-STAR scheme
DBT-STAR College

Dr. S. S. Jagtap

HEAD
Department of Botany
Waghire College, Saswad
Tal. Purandar, Dist. Pune

Principal
PRINCIPAL
Waghire College, Saswad
Tal. Purandar, Dist. Pune.

Sl. No.	Name of Student	Mob. No	Sign	Class
1.	Chavan Shrivani Rajendra	8262922462	@chavan	F.Y. BSc
2.	Bhintade Nikita Ganesh	9529128255	@NB	F.Y. BSC
3.	Kale Pranjali Santosh	9322494923	#kale	F.Y. BSC
4.	Mahangade Suhani Ganesh	9322652599	@mah	F.Y. BSC
5.	Karnavar Swarnjali Bapu	7499401014	Swarnjali	F.Y. BSC
6.	Pawar Ankita Ramdas	7821856048	Pawar	F.Y. BSC
7.	Mohite Pallavi Suresh	7262830866	Mohite	S.Y. BSC
8.	Pandhare Bhumika Vijay	9322310541	Bhumika	S.Y. BSC
9.	Korde Tejal Dilip	7745074907	@korde	S.Y. BSC
10.	Kad Yogita Sanjay	8999263098	@kad	S.Y. BSC
11.	Jagdale Ashwini Sanjay	7597942195	Ash	S.Y. BSC
12.	Sonawane Hemani Prakash	7350029577	she	S.Y. BSC
13.	Katake Shweta Sambhaji	9527180717	@kate	S.Y. BSC
14)	@Bhri Pooja Ravindra	7083312403	Bhri	S.Y. BSC
15)	shekh Farzana Mehraj	7218821328	Farzana	F.Y. BSC
16)	Shinde Akshada Prakash	9322859415	Ashinde	F.Y. BSC
17.	Kumbharkar Sakhee Suresh	9158386815	Sakhee	S.Y. BSC
18)	Nikude Vaibhavi Mahesh	7559158553	Vaibhavi	S.Y. BSC
19)	Yadav Sakshi Shankar	7517569253	Sakshi	F.Y. BSC
20)	khomane Digali Ramesh	9172805883	khomane	F.Y. BSC
21)	Ghante Neha Dnyaneshwar	9923969804	Ghante	F.Y. BSC
22)	Nazirkar Diksha Laxman	8805904782	Nazirkar	F.Y. BSC
23)	Chaudhari Sanika Vishal	8805037616	Ashukh	F.Y. BSC
24)	More Samruddhi Mahendra	9209334949	@more	F.Y. BSC
25)	shendage shraddha shankar	9604133648	@shendage	S.Y. BSC
26)	Kapare Sakshi Sudam	9325437218	Sakshi	S.Y. BSC
27)	pawar Samiksha Santosh	9923422019	Pawar	S.Y. BSC
28)	Jadhav Devayani vijay	9561282829	Jadhav	S.Y. BSC
29)	Mahadik Aishwarya Bhauso	8329717977	Mahadik	S.Y. BSC
30)	Kokare Pratiksha Mahadev	8530342104	Kokare	S.Y. BSC
31)	Mhaske Priyanka Jalindar	7972757675	Mhaske	S.Y. BSC
32)	Dhumal Utkarsha Suhans	9112052198	Dhumal	S.Y. BSC
33)	Katale shubhangi ganpat	9922916111	@kate	S.Y. BSC

34	Ghodage Dharmashee Balaso	7498091794	Phadge	S.Y. BSc
35)	Gaikwad Dnyaneshwari Ramesh	7249035965	Phadke	F.Y.BSc
36)	Kadam Nishwazyga Nitin	9011811965	Amurkar	F.Y.BSc
37]	Kakade Sai Avinash.	7057587109.	Phadke	F.Y.B.Sc.
38]	Shelate Yashashri Talindar	9309239336	Shelate	F.Y. BSc
39)	Khaladkar snehal Ganesh	8149626581	Shelate	F.Y. BSc
40)	Nhahre Neha Santosh	9075800797	N.s.Nhahre	F.Y. BSc
41)	Jagtap Payal Prashant	7058916529	Phadke	S.Y. BSc
42)	Bandal Neri Chandrakant	8908166543	Nharel	S.Y. BSc
43)	Eidhar Akshada Suresh	8432616629	A.s.Tadhar.	S.Y. BSc
44)	Parkar Shrushti Sandeep	8805631797	Shrushti	F.Y. BSc
45]	Bathe Devdatta Satyawan	9359650383	Phadke	F.Y. BSc
46]	Dhurnal Siddharth Ramesh	7276295694	GDhurnal	F.Y. BSc
47]	Hirave Pitesh Appaso	8149619644	Phadke	F.Y. BSc
48]	Gaikwad anshar Subhash	7276661721	Amurkar	F.Y. BSc
49]	Desai Rutusaj Gurudatta	9579985225	Q. Desai	F.Y. BSc
50]	Gejage Sahil Sameer	7774065699	Sahil	F.Y. BSc
51)	SP Phadke or Kar Tamrani.	9559848849	Phadke	F.Y. BSc

PDEA'S
Waghire College of Arts Commerce and Science,
Saswad, Tal-Purandar, Dist.-Pune
(2022-23)

Training Program on
'Chromatographic Techniques and Basic techniques in Molecular Biology'
for T.Y.B.Sc. Students

(Under DBT STAR scheme)

Organised by

Waghire College, Saswad in collaboration with
MakelIntern and E-Cell IIT
Kharagpur.

The department of Microbiology had organized two days training program for T.Y.B.Sc. Students in collaboration with MakeIntern and E-Cell IIT Kharagpur. Fifty-four T.Y.B.Sc. students participated in the training session. T.Y.B.Sc. microbiology students are learning about different types of chromatographic and molecular biology techniques as a part of their curriculum. If they could get hands on experience of the same it would be easier to understand the concepts.

On 3rd October 2022, in the inaugural function, MS. V. N. Ganvir compared the ceremony. Smt. H. V. Sonawane introduced the idea of the training program. Mrs. Manasi Joshi introduced the guest Dr. B. Banerjee. Then Principal Dr. Sushama Bhosale felicitated the guest Dr. Devika Banerjee and gave her best wishes for the activity. Dr. Nita Patil expressed vote of thanks.

The organizing partner, MakeIntern, had provided two Mentors for conducting this program. On 3rd October 2022, Dr. Devika Banerjee had conducted session on Chromatographic Techniques. In the beginning she introduced students to basic principles of chromatography, its types and the application. Then she briefed about Thin Layer Chromatography and its advantages. In hands-on session students learnt about how to prepare solvent system, load sample on TLC sheet and develop it. In the afternoon session they were introduced to different types of column chromatographic techniques and their application in different fields such as protein/enzyme purification, pharmaceutical industries for the purification of various products. In hands on session, they performed one type of column based on Molecular sieving chromatography principle and the separation of sample was performed.

On second day of program, i.e. on 4th October 2022, second Mentor Dr. Chinmoy Patra Scientist from Aagharkar Research Institute, Pune had visited college to conduct session on, 'Basictchniques in Molecular Biology'. In his session he introduced students with various laboratory animals used for testing purposes and lastly he talked about Zebrafish as model which is been used widely for the testing purpose because of its simple anatomical structure. He showed students the larvae of Zebrafish and how easy it is to see various internal structures of the animal because of the transparent skin. Students were very excited to see that. The whole training program was very exciting; full of knowledge, and students actively participated in all sessions.

H. Sawane
Head
Department of Microbiology
Waghire College, Saswad

Bhat
Co-Ordinator
DBT- STAR College

J. S. Patil
PRINCIPAL
Waghire College, Saswad
Tal. Purandar, Dist. Pune

PDEA's
Waghire college of Art , Commerce & Science
Saswad .Tal- Purander,Dist - Pune
Organised By :- Microbiology Department(under DBT STAR Scheme 2022-23)
Hands on training on Chromatographic and molecular Biology techniques.
Attendance (03rd & 04th October 2022)

T.Y.B.Sc. (2022-23)

S.N.	Name of student	sign		S.N.		sign	
		03/10/22	04/10/22			03/10/22	04/10/22
1	BAHIRAT SUMIT	<i>Sumit</i>	<i>Sumit</i>	32	MHETRE ANKITA VIJAY	<i>ANKITA</i>	<i>ANKITA</i>
2	BARKADE PRASAD BALU	<i>Prasad</i>	<i>Prasad</i>	33	MORE ADITYA	<i>Aditya</i>	<i>Aditya</i>
3	BARKADE RUTVIK	<i>Rutvik</i>	<i>Rutvik</i>	34	MORE MAYUR SOMNATH	<i>Mayur</i>	<i>Mayur</i>
4	BHONGALE NIKITA	<i>Nikita</i>	<i>Nikita</i>	35	MULIK TANUJA JALINDAR	<i>Tanuja</i>	<i>Tanuja</i>
5	BORAWAKE ISHA ANIL	<i>I.A. Borawake</i>	<i>I.A. Borawake</i>	36	OMBALE SAYALI	<i>Sayali</i>	<i>Sayali</i>
6	BOTRE NEHA NAMDEV	<i>Neha</i>	<i>Neha</i>	37	PANGARE DIPALI	<i>Dipali</i>	<i>Dipali</i>
7	CHAVAN KUNAL	<i>Kunal</i>	<i>Kunal</i>	38	PANGARE TANUJA	<i>Tanuja</i>	<i>Tanuja</i>
8	CHIVHE VAISHNAVI	<i>Vaishnavi</i>	<i>Vaishnavi</i>	39	PAWAR GAURAV	<i>Gaurav</i>	<i>Gaurav</i>
9	Choudhari Rutik	<i>Rutik</i>	<i>Rutik</i>	40	PAWAR KARTIK	<i>K.R. Pawar</i>	<i>K.R. Pawar</i>
10	Dalvi Gorakh	<i>Gorakh</i>	<i>Gorakh</i>	41	PAWAR PRANAV	<i>Pranav</i>	<i>Pranav</i>
11	DESHPANDE ANAGHA	<i>Anagha</i>	<i>Anagha</i>	42	PAWAR SAKSHI	<i>Sakshi</i>	<i>Sakshi</i>
12	DHUMAL APEKSHA	<i>Apeksha</i>	<i>Apeksha</i>	43	PRAJAPATI MEENAKSHI	<i>Meenakshi</i>	<i>Meenakshi</i>
12	GAIKWAD POONAM	<i>Poonam</i>	<i>Poonam</i>	44	SHAIKH SEHABAJ	<i>Sehabaj</i>	<i>Sehabaj</i>
14	GAIKWAD SAKSHI	<i>Sakshi</i>	<i>Sakshi</i>	45	SHINDE PRASHANT	<i>Prashant</i>	<i>Prashant</i>
15	GAIKWAD SONALI	<i>Sonali</i>	<i>Sonali</i>	46	SHIRKE SANDIP TANAJI	<i>Sandip</i>	<i>Sandip</i>
16	GAVADE VISHAL	<i>Vishal</i>	<i>Vishal</i>	47	SURVE SAKSHI NITIN	<i>Sakshi</i>	<i>Sakshi</i>
17	GURAV VIRAJ VIJAY	<i>Viraj</i>	<i>Viraj</i>	48	TAKAWALE MAYURI	<i>Mayuri</i>	<i>Mayuri</i>
18	KALE PRATIK SANJAY	<i>Pratik</i>	<i>Pratik</i>	49	THOPATE RAVINA	<i>Ravina</i>	<i>Ravina</i>
19	KALE SALONI SANDEEP	<i>Saloni</i>	<i>Saloni</i>	50	TILEKAR SNEHAL	<i>Snehal</i>	<i>Snehal</i>
20	KALE SHWETA SANJAY	<i>Shweta</i>	<i>Shweta</i>	51	VEDPATHAK PRATIK	<i>Pratik</i>	<i>Pratik</i>
21	KAMTHE VAISHNAVI	<i>Vaishnavi</i>	<i>Vaishnavi</i>	52	VISHWAKARMA LAXMI	<i>Laxmi</i>	<i>Laxmi</i>
22	KAPARE YASH ARUN	<i>Yash</i>	<i>Yash</i>	53	YADAV RAVINA GORAKH	<i>Ravina</i>	<i>Ravina</i>
23	KAZI ALFIYA AJAJ	<i>Alfiya</i>	<i>Alfiya</i>	54	ZENDE TEJAL BAIRAO	<i>T.B. Zende</i>	<i>T.B. Zende</i>
24	KHARADE SHWETA	<i>Shweta</i>	<i>Shweta</i>				
25	KHUTWAD VAIBHAV	<i>Vaibhav</i>	<i>Vaibhav</i>				
26	KOLTE TANUJA VIKAS	<i>Tanuja</i>	<i>Tanuja</i>				
27	KUL SHUBHAM DADASO	<i>Shubham</i>	<i>Shubham</i>				
28	KULKARNI MRUDULA	<i>Mrudula</i>	<i>Mrudula</i>				
29	MANE SRUSHTI AJIT	<i>Srushti</i>	<i>Srushti</i>				
30	MEMANE SOURABH	<i>Sourabh</i>	<i>Sourabh</i>				
31	MHETRE ADITYA SUNIL	<i>Aditya</i>	<i>Aditya</i>				

Hands on training on chromatographic techniques and Molecular Biology Techniques

3rd and 4th Oct 2022



GPS Map Camera



Google

Saswad, Maharashtra, India
923G+QGF, Swarna Nagar, Saswad, Maharashtra 412301, India
Lat 18.354854°
Long 74.025652°
03/10/22 03:04 PM GMT +05:30



GPS Map Camera



Google

Saswad, Maharashtra, India
1stnd floor, POEA Waghire College, Swarna Nagar, Saswad,
Maharashtra 412301, India
Lat 18.354959°
Long 74.025826°
04/10/22 03:05 PM GMT +05:30



PUNE DISTRICT EDUCATION ASSOCIATION'S
**WAGHIRE COLLEGE OF ARTS, COMMERCE
AND SCIENCE, SASWAD**

Tal: PurandarDist: Pune 412301
NAAC Reaccredited with B++ Grade



**Department of Microbiology
Organizes**

*Training Program and Workshop on
"Chromatographic Techniques and Basic Techniques in Molecular Biology"*
On 3rd and 4th Oct 2022

CERTIFICATE

This is to certify that Mr. / Miss. /Mrs. Zende Tejal Bajirao Student has
actively participated in **Training Program and Workshop on "Chomatographic Techniques and Basic Techniques
in Molecular Biology"** organized by Department of Microbiology, PDEA's Waghire College of Arts, Commerce and
Science, Saswad on 3rd and 4th October 2022.

J. Benawan
Coordinator

P. B. B.
Principal

