

ACTIVITY REPORT

Name/ Title of the Programme: Use of Chemistry in Day to Day Life				
Date(DD/MM/YYYY): 11/03/2023		Total Participants / Beneficiaries (in figures) – Total : 12 Male: 04 Female: 08		
Resource Person/ Chief Guest (If any or else NA): NA				
Sr. No.	Name of the Resource Person/ Chief Guest	Affiliation	Mobile Number	Email ID (if available)
1.				
Conveners of Programme: Dr. Shraddha Khamkar, Dr. Gayatri Gadre, Dr. Promila Nagpal and Dr. Jayashri Naphade				
Kindly Paste (2 –4 photographs) with proper details :				
Pamphlet of the competition	 <p>VISHNU WAMAN THAKUR CHARITABLE TRUST'S BHASKAR WAMAN THAKUR COLLEGE OF SCIENCE, YASHVANT KESHAV PATIL COLLEGE OF COMMERCE, VIDHYADAYANAND PATIL COLLEGE OF ARTS, VIVA COLLEGE (NAAC ACCREDITED – 'B' GRADE, CGPA 2.69)</p> <p>Department of Chemistry is Organizing an Activity on 'Use of Chemistry in Day to Day Life'</p> <p>Day: Saturday Date: 11 March 2023 Time: 10.00 am – 12.00 pm Venue: Department of Chemistry</p> <p>Thanks and Regards Dr. V. S. Adigal (Principal) Mr. Ajitkumar Ingle (Head, Department of Chemistry)</p> <p>Register here: https://forms.gle/YpLT5BNo976CiezCA Join this WhatsApp group: https://chat.whatsapp.com/H9z6uhuZUQAS9Sy4v3sXD</p>			

Announcement of the competition
on Notice Board



**Vishnu Waman Thakur Charitable Trust's
Bhaskar Waman Thakur College of Science,
Yashvant Keshav Patil College of Commerce,
Vidhya Dayanand Patil College of Arts,
VIVA College**

(Affiliated to University of Mumbai) NAAC ACCREDITED WITH "B" GRADE (CGPA 2.69)

Shri Hitendra V. Thakur
President

Ms. Aparna P. Thakur
Secretary

Dr. V. S. Adigal
Principal

Ref. No.: Notice No. VC/179/22-23

Date :

Date: 27/02/2023

NOTICE

(Degree College)

Chemistry Department

Department of Chemistry is organizing an activity for undergraduate and postgraduate students on the topic "Use of Chemistry in Day to Day Life" on Saturday, 11/03/2023 at 10.00 am. Students will have to deliver five minutes talk on the above topic.

Interested students should register their names to the following teachers.

For any queries contact:

Dr. Promila Nagpal: 7219547572

Dr. Gayatri Gadre: 9920141292

Dr. Jayashri Naphade: 9665075254

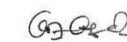
Dr. Shraddha Khamkar: 9920762665



Prof. Avit Kumar Ingle

Head of Department





Dr. V. S. Adigal

Principal

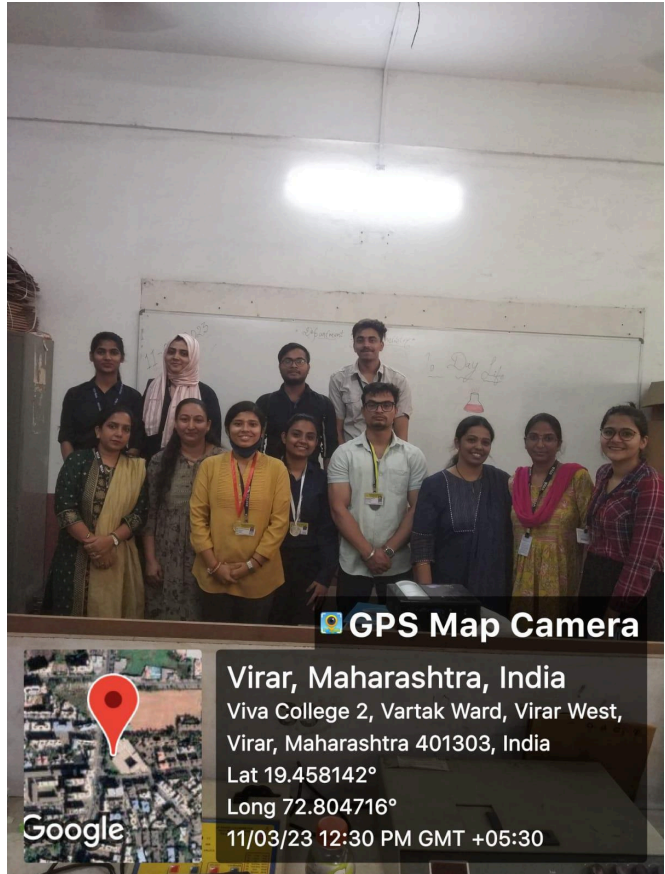
VIVA College Road, Virar (West), Pin - 401 303.
Tel. : 97657 42335 . Email ID :- principal@vivacollege.org

Photographs of the competition









Brief report of programme (in 250 -300 words)	<ul style="list-style-type: none"> ● An activity ‘Use of Chemistry in Day to Day Life’ was organised by the Chemistry department on 11th March 2023. ● It was open for undergraduate as well as postgraduate students. ● There was solo as well as group participation. ● 21 students from F.Y.B.Sc. to T.Y.B.Sc. and M.Sc. part I and II registered themselves and 12 participated in the competition. ● The aim of the competition was - students should gain knowledge in the topic selected and learn how to present the topic. ● The activity was conducted by Dr. Shraddha Khamkar, Dr. Gayatri Gadre, Dr. Promila Nagpal and Dr. Jayashri Naphade. ● The performance of the competitors was judged by the organisers of the competition. In view of the judges, all the participants presented well and covered many aspects of their respective topic by poster, power point presentation and by chalk and board. ● The judges were pleased to announce winners of the competition: 1st winner- Sudharshini Pillai 2nd winner- Shweta Singh 3rd winner- Abhishek Shukla ● Certificates were given to the winners as well as participants. First three winners were honoured with medals.
News Paper Cutting (if applicable/ or else NA)	NA
Attendance Sheet (PDF format - student signature-in case of events conducted offline; student list with link of recording for events conducted Online)	Attendance

Department of Chemistry
Activity on Use of Chemistry in Day to Day Life

Saturday, 11 March, 2023

Conveners - Dr. V. S. Adigal (Principal) & Mr. Ajitkumar Ingle (Head, Department of Chemistry)

Organisers - Dr. Gayatri Gadre, Dr. Shraddha S. Khamkar, Dr. Promila Nagpal, Dr. Jayashri Naphade



No.	Name	Class	Division/ Subject	Student ID	Phone number	Topic	Signature
1	Aakash Singh	S.Y.B.Sc.	CB	21030163	+91937223212	CHEMISTRY	
2	Ashutosh Unesh Yadav	S.Y.B.Sc.	Cb	21030096	7888016179	Use of chemistry day to day life	
3	Ayush Anil Sharma	T.Y.B.Sc.	Chemistry	20030187	8369212071	Chemistry in daily Life	
4	Soham bhuran	M.Sc. II	Analytical chem	21540005	8308840378	Chemistry	
5	Sujal Sunil Patil	F.Y.B.Sc.	Fysec b	22030106	09529696575	Chemistry	
6	Shubham Vyavahare	M.Sc. II	Analytical	21540016	9579896052	Chemistry	
7	Admani Khadijah Muhammad Firoz	F.Y.B.Sc.	B-CBZ	22030039	9637873624	Chemistry in day to day life	
8	Sudharshini Anita pillai	M.Sc. I	Organic chemistry	22420046	7448206734	(Human Composition) Chemistry on Human being (Human Body)	Sudharshini Kasal
9	Gupta Kajal Krishnakumar	M.Sc. I	Organic	19030280	8208291653	Fertilizer	
10	Aakanksha Pandey	F.Y.B.Sc.	(CBZ)-A	22030181	9561787301	Daily useful things	
11	Prajapati Abhishek Harishankar	M.Sc. I	Organic	22420012	7757010577	Theromocol (Cosmetics)	
12	Renu Sanjay Kori	M.Sc. I	Organic chemistry	22420021	7378843162	Use of chemistry (Artinometo)	
13	Pal Sinran Onkar	M.Sc. I	Organic chemistry	22420010	9022482580	Use of chemistry (Chemical Colours)	
14	Shweta Singh	M.Sc. II	Organic chemistry	21420024	07758815785	Chemistry in everyday life (Vitamins)	
15	Singh shruti vijay	M.Sc. II	Organic chemistry	21420040	7709272751	Chemistry in daily life	
16	Shruti Sharma	M.Sc. II	Organic Chemistry	21420012	87933 41866	Daily Use Of Sunscreen	
17	Nabida Ansari	M.Sc. II	Organic chemistry	21420016	8856815298	Uses of chemistry in day to day life (Food)	
18	Anubhav dubey	M.Sc. I	A	22420022	9359149359	About Analgesic	
19	Yogesh shyammarayan Sharma	M.Sc. I	Organic chemistry	22420025	8767338190	Analgesic drug	
20	Sheetal Halwai	F.Y.B.Sc.	B CBZ	22030293	9373239462	Chemistry Contribution	

21. Abhishek, Shweta M.Sc - II

Chemistry 248904694
(dietary Supplement)

Ashweta

Shraddha Khamkar

G.V. Gadre

P. Nagpal


Gadgaonkar

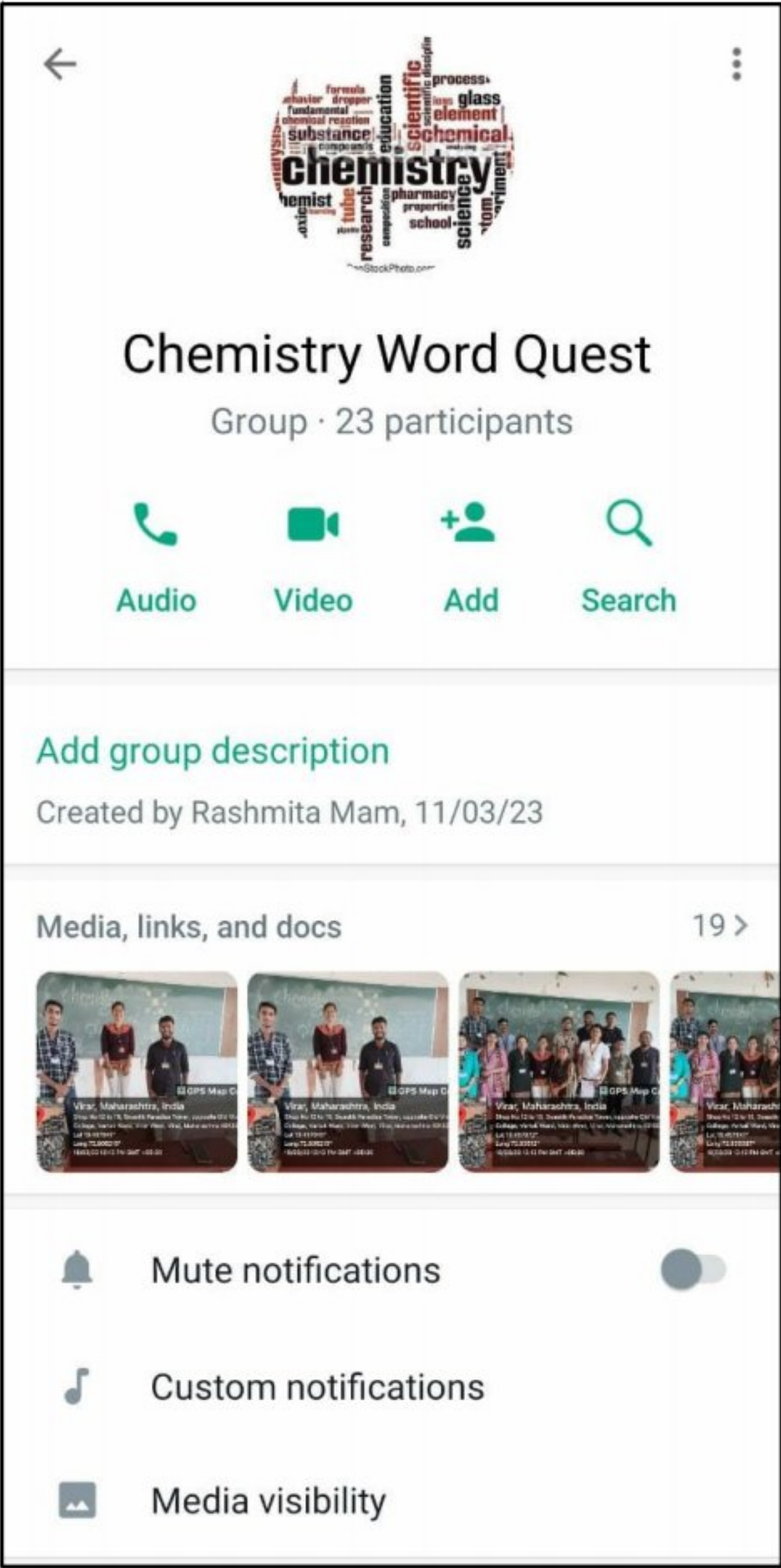
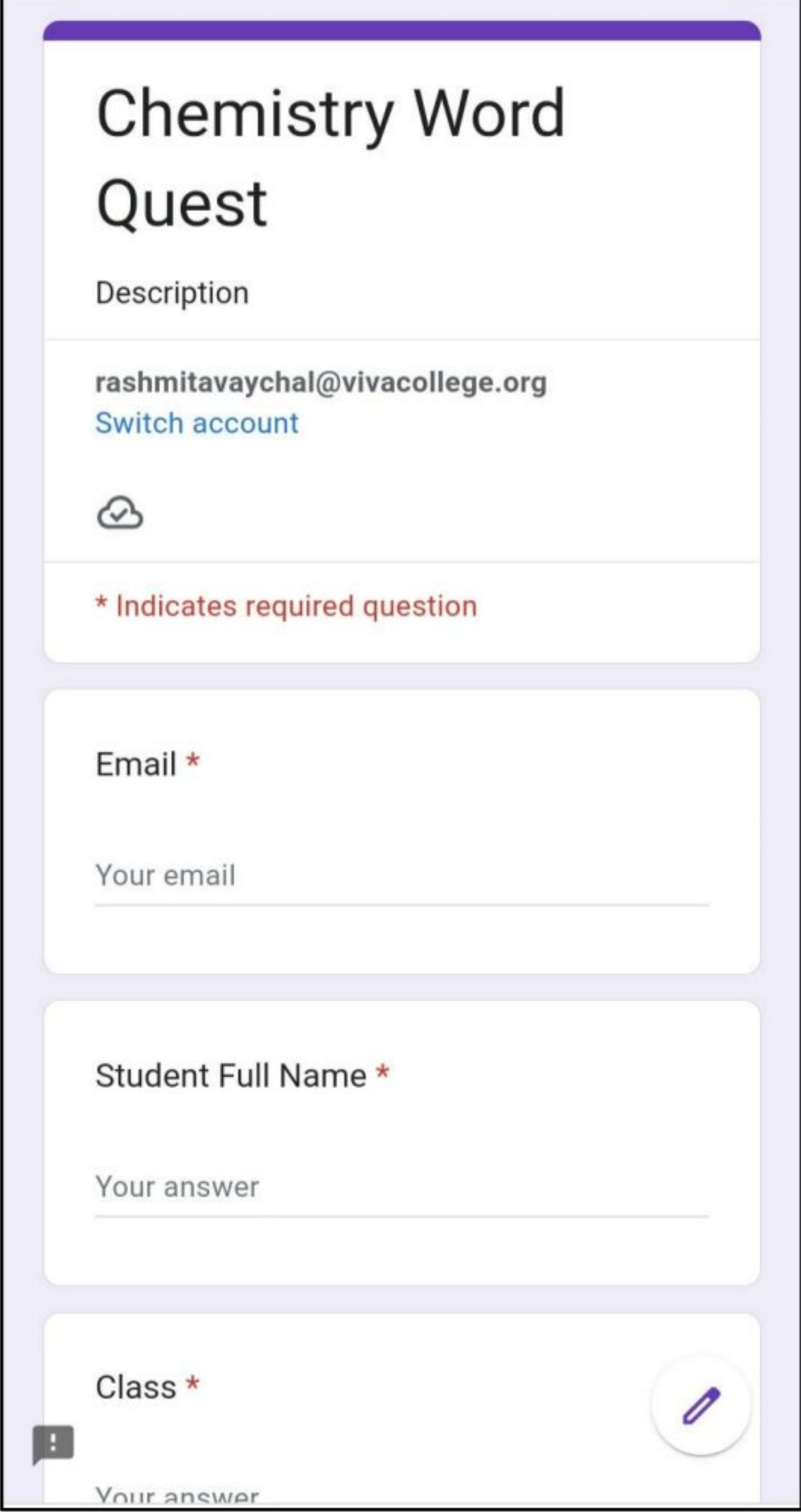
Ajitkumar Ingle

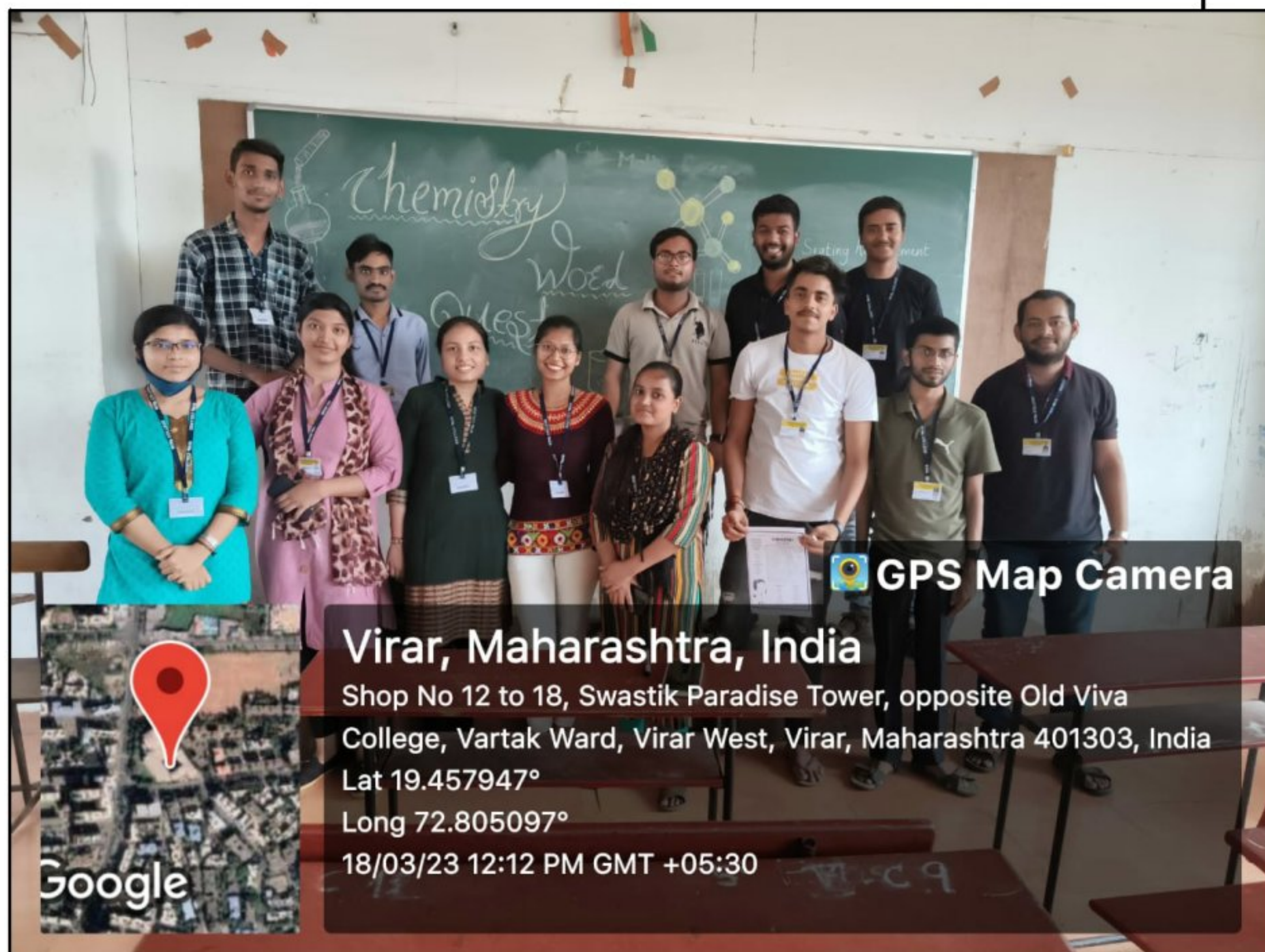
Dr. Shraddha Khamkar Dr. Gayatri Gadre Dr. Promila Nagpal Dr. Jayashri Naphade
Signatures of Conveners

Prof. Ajitkumar Ingle
Signature of HOD

ACTIVITY REPORT

Name/ Title of the Programme: Chemistry Word Quest				
Date(DD/MM/YYYY): 18/03/2023		Total Participants / Beneficiaries (in figures) - Total : 13 Male:08 Female: 05		
Resource Person/ Chief Guest (If any or else NA):				
Sr. No.	Name of the Resource Person/ Chief Guest	Affiliation	Mobile Number	Email ID (if available)
1. 2. 3.	Rashmita B. Vaychal Hanisha R. Ghude Shrutika V. Padhye	Assistant professor Assistant professor Assistant professor	9664897500 74 14942477 8888749223	rashmitavaychal@viva-college.org hanishaghude@vivacollege.org shrutikapadhye@vivacollege.org
Convener of Programme: 1. HOD. Prof. Ajit Ingle 2. Prof. Rashmita Vaychal 3. Prof. Hanisha Ghude 4. Prof. Shrutika Padhye				
Kindly Paste (2 -4 photographs) with proper details :				
Announcement of Chemistry Word Quest Competition on Notice Board as well as in different Whatsapp Groups				
Whatsapp Group Created which shows				

<p>number of Participants, Date of formation of Group for 'Chemistry Word Quest Competition'.</p>	
<p>Chemistry Word Quest Competition registration form image indicating the details of students like,</p> <ol style="list-style-type: none"> 1. Email ID 2. Name of Participant 3. Class 4. Division 5. Roll Number 6. Contact Number 	
<p>Image of all participating students</p>	



Pictures of students doing their 'CHEMISTRY WORD QUEST ACTIVITY '



Rank Holders

1st Ranker - Renu S. Kori(MSc Part -1)

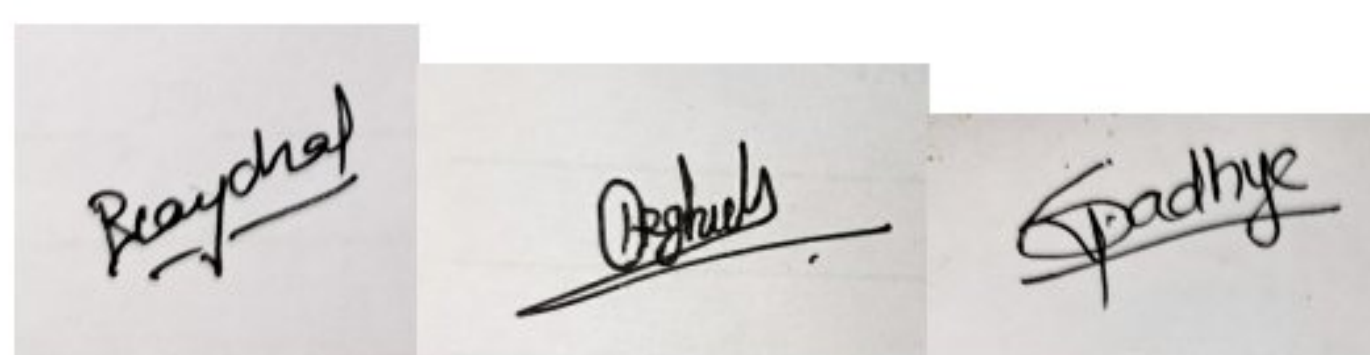
2nd Ranker - Akash A. Singh(SYBSc)

3rd Ranker- Lalit S. Samant(MSc Part-2)



Brief report of programme (in 250 -300 words)	Department of Chemistry Organized an event for UG & PG students named as ' CHEMISTRY WORD QUEST COMPETITION ' held on 18th March 2023 to enhance dictionary & vocabulary regarding chemistry such as elements, apparatus, properties of matter etc. It also improved revision of elements of periodic table. This event was organized by Miss.Rashmita vaychal, Miss.Hanisha Ghude & Miss.Shrutika Padhye under the guidance of HOD Mr.Ajit Ingle .It gives a golden opportunity for students of CHEMISTRY to explore & improvise their speed skills.																																																																																																																																																
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Signature of Convenor/s



Signature of HOD



MUSHROOM CULTIVATION (CERTIFICATE COURSE)

Department of Botany in association with VIVA COLLEGE HERBARIUM (VCH)

Date:
February-April (2023)

Total Participants / Beneficiaries (in figures) –
Total : 76 Male: 21 Female: 55

Resource Person/ Chief Guest (If any or else NA):

Sr. No.	Name of the Resource Person/ Chief Guest	Affiliation	Mobile Number
1.	Rupali Deshmukh	Krishi Vigyan Kendra, Kosbad	8698701177

Photographs





Brief report

In the academic year 2022-23 Department of Botany and VIVA College Herbarium (VCH) introduced certificate courses for the students in addition to the curriculum. The course was successfully completed in the month of April. Duration of the course was 30 hours. Curriculum was set and delivered by the in-house faculty and an external resource person (Rupali Deshmukh). Mode of the delivery of the course was offline in the Old VIVA College laboratory. On the completion of the course evaluation test was conducted and certificate was issued.

Attendance Sheet (PDF format - student signature-in case of events conducted offline; student list with link of recording for events conducted Online)

Attendance

Registration:

Flyer:

https://drive.google.com/file/d/1QM9_VEfIj5ALvHK70yWHAD8Xx4RnkSzX/view?usp=share_lin

	<p>k</p> <p>Syllabus: https://docs.google.com/document/d/1mMfCVYhn0uwfbz6PaTuXF9nzSqbuCjtq/edit?usp=share_link&ouid=112511744017995307086&rtpof=true&sd=true</p> <p>Student list: https://docs.google.com/spreadsheets/d/1KfbwBeP6d6jo9HHT83hUdnAnOrOCFbrG/edit?usp=sharing&ouid=112511744017995307086&rtpof=true&sd=true</p> <p>Certificate template: https://drive.google.com/file/d/1PEykf8xGsD2ODVr3oOYS_riW73LSWw4s/view?usp=share_link</p>
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Hensal Rodrigues
Course co-ordinator

VISHNU WAMAN THAKUR CHARITABLE TRUST'S
BHASKAR WAMAN THAKUR COLLEGE OF SCIENCE,
YASHVANT KESHAV PATIL COLLEGE OF COMMERCE,
VIDHYA DAYANAND PATIL COLLEGE OF ARTS,



VIVA COLLEGE

DEPARTMENT OF BOTANY

IN ASSOCIATION WITH

VIVA COLLEGE HERBARIUM (VCH) & IQAC

ORGANIZES

CERTIFICATE COURSE ON

MUSHROOM CULTIVATION

CONTENTS COVERED

- INTRODUCTION TO OYSTER MUSHROOMS
- OYSTER MUSHROOM NUTRITION AND HEALTH (2 HOURS)
- SUBSTRATE PREPARATION
- TYPES OF SUBSTRATES, SUBSTRATE PREPARATION TECHNIQUES, STERILIZATION AND PASTEURIZATION METHODS
- OYSTER MUSHROOM CULTIVATION
- FRUITING AND HARVESTING
- TROUBLESHOOTING AND QUALITY CONTROL

GUEST RESOURCE PERSON
SCIENTIST, RUPALI ASHOK DESHMUKH
KRISHI VIGYAN KENDRA, KOSBAD

EVALUATION: STUDENTS WILL HAVE TO PREPARE THEIR RESPECTIVE OYSTER MUSHROOM BAGS AND MONITOR TILL THE FRUITING BODY APPEARS. CULINARY PREPARATION OF THE FRUITING BODIES.

REGISTRATION: [CLICK HERE](#)
LIMITED SEATS ONLY

 FEB - APRIL 2023

 VIVA COLLEGE, OLD CAMPUS, ROOM NO. 304

MR. HENSAL RODRIGUES
COURSE CO-ORDINATOR

DR. DEEPA VERMA
VICE PRINCIPAL & IQAC CO-ORDINATOR

DR. PRAJAKTA PARANJPE
VICE PRINCIPAL

DR. V.S. ADIGAL
PRINCIPAL



VISHNU WAMAN THAKUR CHARITABLE TRUST'S
BHASKAR WAMAN THAKUR COLLEGE OF SCIENCE
YASHVANT KESHAV PATIL COLLEGE OF COMMERCE
VIDHYA DAYANAND PATIL COLLEGE OF ARTS
(VIVA COLLEGE)
(Affiliated to University of Mumbai)

CERTIFICATE

THIS CERTIFICATE IS AWARDED TO

for successful completion of the
**"Skill Development, Certificate Course on
Mushroom Cultivation (SMCSTP01)"**

held on

February - April 2023

organized by the Department of Botany in association
with VIVA College Herbarium and IQAC

MR. HENSAL RODRIGUES
Course Co-ordinator & VIVA
College Herbarium in-charge

DR. DEEPA VERMA
Vice Principal, IQAC Co-ordinator
& Head, Department of Botany

DR. PRAJAKTA PARANJAPE
Vice Principal

DR. V. S. ADIGAL
Principal

Sr. No.	Gender	Student Name	Phone No.	Email ID	Class	Course Name
1	F	Advani Khadija	9637873624	admanikha dijah@gmail.com	F.Y.B.Sc	MUSHROOM CULTIVATION
2	M	Akash Veerendraprata p Singh	9372235212	anitashreya sh@gmail.com	S.Y.C.B	MUSHROOM CULTIVATION
3	F	Amisha Sanjay Pawar	9960484269	amishasanj aypawar@gmail.com	T.Y.B.Sc	MUSHROOM CULTIVATION
4	F	Anjali Amulya Das	9373832190	ad6949216 @gmail.com	T.Y.B.Sc	MUSHROOM CULTIVATION
5	M	Ankit Thakur				MUSHROOM CULTIVATION
6	F	Annu Virendra Yadav				MUSHROOM CULTIVATION
7	F	Asha Shah	7414978758	shahasha45 5@gmail.com	T.Y.Bioc hemistry	MUSHROOM CULTIVATION
8	M	Ashish Ganesh Shetty	7741078478	ashishshett y0909@gmail.com	S.Y CB	MUSHROOM CULTIVATION
9	M	Ashutosh Umesh Yadav				MUSHROOM CULTIVATION
10	F	Ayushee Maurya				MUSHROOM CULTIVATION
11	M	Bhaves Kasavali				MUSHROOM CULTIVATION
12	F	Chaubey Deepali Arun	9370338548	cdeepali80 80@gmail.com	Biotechn ology	MUSHROOM CULTIVATION
13	M	Chirag Suresh				MUSHROOM CULTIVATION
14	F	Deepika Jaiswal				MUSHROOM CULTIVATION
15	F	Esha Gopal Patkar				MUSHROOM CULTIVATION
16	F	Gupta Reni Dilip	8788418910	renigupta2 4@gmail.com	Botany	MUSHROOM CULTIVATION
17	M	Jogale Paresh Parshuram	9022490816	pareshjogal e07531@gmail.com	BOTANY	MUSHROOM CULTIVATION
18	F	Kajal oza	8446054218	kajaloza00 2@gmail.com		MUSHROOM CULTIVATION
19	F	Kanchan Gupta	8767677390	pta876767	--	MUSHROOM CULTIVATION

20	F	Kavita vakode	9607559624	de8@gma		MUSHROOM CULTIVATION
21	F	Khan Bushra	7745845505	14012005	--	MUSHROOM CULTIVATION
22	F	Khan Naima				MUSHROOM CULTIVATION
23	F	Bharati				MUSHROOM CULTIVATION
24	F	Sayyad	8010747362	yad.stud@	M.Sc.	MUSHROOM CULTIVATION
25	F	Krishna Singal				MUSHROOM CULTIVATION
26	F	Jethva	8446532844	va23@gma	T,Y	MUSHROOM CULTIVATION
27	M	Dhanu	7378844185	al9@gmail.	S.Y. BZ	MUSHROOM CULTIVATION
28	F	Mahika kori	9021247825	68@gmail.c	S.Y BZ	MUSHROOM CULTIVATION
29	F	Manisha behera	9766225391	hera819@g	F.Y	MUSHROOM CULTIVATION
30	F	Dayashankar	9545398131	pal939@g	F.Y	MUSHROOM CULTIVATION
31	F	Vinodkumar	8793191192	hi603@gm	T.Y	MUSHROOM CULTIVATION
32	M	Nirbhay Thakur				MUSHROOM CULTIVATION
33	M	Chavan				MUSHROOM CULTIVATION
34	F	Sewamani	8355974276	995@gmail	S,Y CB	MUSHROOM CULTIVATION
35	F	Yadav	9970406156	7330@gma	S.Y.	MUSHROOM CULTIVATION
36	M	Gawde				MUSHROOM CULTIVATION
37	F	Priti Gupta	7507541988	mail.com	MSC EVS	MUSHROOM CULTIVATION
38	F	Patil	9579424322	51@gmail.c	F.Y. CB	MUSHROOM CULTIVATION
39	F	Rhoda Nova	9867348294	06@gmail.c	F.Y CBZ	MUSHROOM CULTIVATION
40	F	Madheshia	9545662933	eshia9@gm	F.Y	MUSHROOM CULTIVATION
41	M	Sagar	7262968284	ari1234@g	MSC	MUSHROOM CULTIVATION
42	F	Saima Khan	7745845505	564732@g	F.Y	MUSHROOM CULTIVATION
43	M	Bhaskar	9763475139	halerao394	S.Y.CB	MUSHROOM CULTIVATION
44	F	Thombare				MUSHROOM CULTIVATION
45	F	nathuram parab	9527641793	abab@gma	S.Y.CB	MUSHROOM CULTIVATION
46	F	Sapna Sharma	9552678329	2@gmail.c	S.Y.BIOT	MUSHROOM CULTIVATION
47	M	Sanjaykumar	8554015275	92@gmail.c	S.Y.B.Sc	MUSHROOM CULTIVATION
48	M	Mahayawanshi				MUSHROOM CULTIVATION
49	F	Shaikh Shamim				MUSHROOM CULTIVATION
50	F	Shambala Patil	90634 / 91729	ala5@gmail	CBZ	MUSHROOM CULTIVATION
51	M	Basu				MUSHROOM CULTIVATION
52	M	Shivam Pandey				MUSHROOM CULTIVATION
53	F	Shivani verma	8625914040	@gmail.co	S.Y CB	MUSHROOM CULTIVATION
54	F	Guhagarkar	9082909728	garkar23@	T.Y	MUSHROOM CULTIVATION
55	M	Manohar	7350071412	otam9@g	SYBZ	MUSHROOM CULTIVATION
56	M	Jadhav				MUSHROOM CULTIVATION
57	F	Sonam Gupta	7709089189	a4997@gm	S.Y	MUSHROOM CULTIVATION
58	F	Anandraj pillai	9307890765	llai@avc.ac	<u>M.SC</u>	MUSHROOM CULTIVATION
59	F	Sujata Tiwari	8446988443	@gmail.co	SYBIOTE	MUSHROOM CULTIVATION
60	M	Suraj Prajapati				MUSHROOM CULTIVATION
61	F	Sushma Yadav				MUSHROOM CULTIVATION
62	F	Swara Mhatre				MUSHROOM CULTIVATION

63	F	Swati Pandey	8446988443	y3110@gm	SY BZ	MUSHROOM CULTIVATION
64	F	Sweety Maurya				MUSHROOM CULTIVATION
65	F	Tasmiya Sayed				MUSHROOM CULTIVATION
66	F	Tiwari Anshu				MUSHROOM CULTIVATION
67	F	Mishra				MUSHROOM CULTIVATION
68	F	Natekar				MUSHROOM CULTIVATION
69	F	Munna Gautam	8554898284	utam2003	F.Y.BT	MUSHROOM CULTIVATION
70	F	Varsha Bhoir				MUSHROOM CULTIVATION
71	M	Mayekar	8262986328	ekar824@g	S.Y.C.B	MUSHROOM CULTIVATION
72	F	Rajesh	9579839234	ela2001@	S.Y.C.B	MUSHROOM CULTIVATION
73	F	Khushboo				MUSHROOM CULTIVATION
74	F	Yadav Kiran				MUSHROOM CULTIVATION
75	F	Rajendra	9890389880	@gmail.co	SYBT	MUSHROOM CULTIVATION
76	F	bharatlal	97657 90953	@gamil.co	S.Y.C.B	MUSHROOM CULTIVATION

ACTIVITY REPORT

Name/ Title of the Programme: Peer to peer learning Basics of microbial techniques				
Date(DD/MM/YYYY): 27/08/2022		Total Participants / Beneficiaries (in figures) – Total : Male: Female:		
Resource Person/ Chief Guest (If any or else NA): NA				
Sr. No.	Name of the Resource Person/ Chief Guest	Affiliation	Mobile Number	Email ID (if available)
1.				
Convener of Programme:				
Kindly Paste (2 –4 photographs) with proper details :				
				
				



Brief report of programme (in 250 -300 words)	<p>The students of third year Biotechnology have organized a peer to peer learning on basics of microbial techniques. The basic microbiology laboratory techniques include aseptic techniques, culturing techniques, enumerating bacteria, and identifying different classes of microorganisms. These techniques form the base of advanced research and experiments performed on microorganisms. This would give a platform for advanced learners and learning for slow learners.</p>
News Paper Cutting (if applicable/ or else NA)	NA
Attendance Sheet (PDF format - student signature- in case of events conducted offline; student list with link of recording for events conducted Online)	

B Gupta

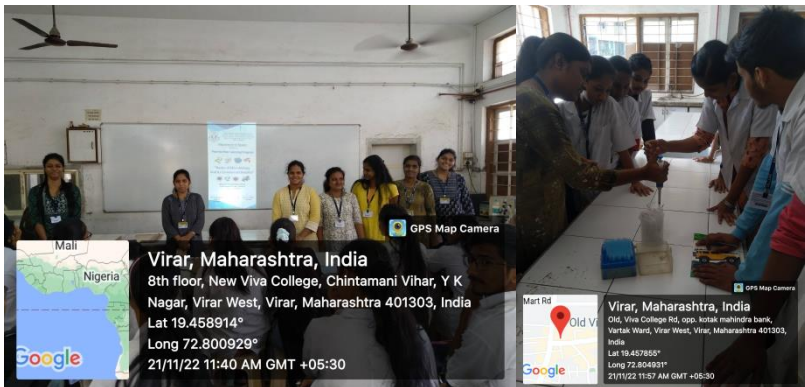
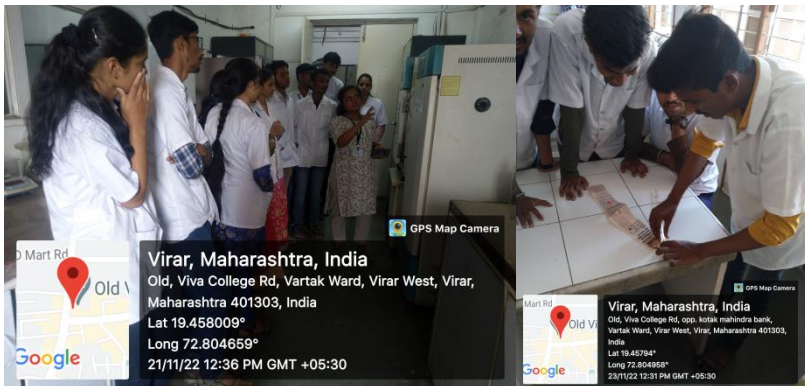
Signature of Convenor/s

S. N. Nore

Signature of HOD

ACTIVITY REPORT

Department of Botany

Name/ Title of the Programme: Peer to peer learning Basics of Microbiology and its commercial Benefits				
Date(DD/MM/YYYY): 21/11/2022 and 23/11/2022		Total Participants / Beneficiaries (in figures) – Total : Male: Female:		
Resource Person/ Chief Guest (If any or else NA): NA				
Sr. No.	Name of the Resource Person/ Chief Guest	Affiliation	Mobile Number	Email ID (if available)
1.	NA	NA	--	--
Convener of Programme:				
Kindly Paste (2 –4 photographs) with proper details :				
				
				

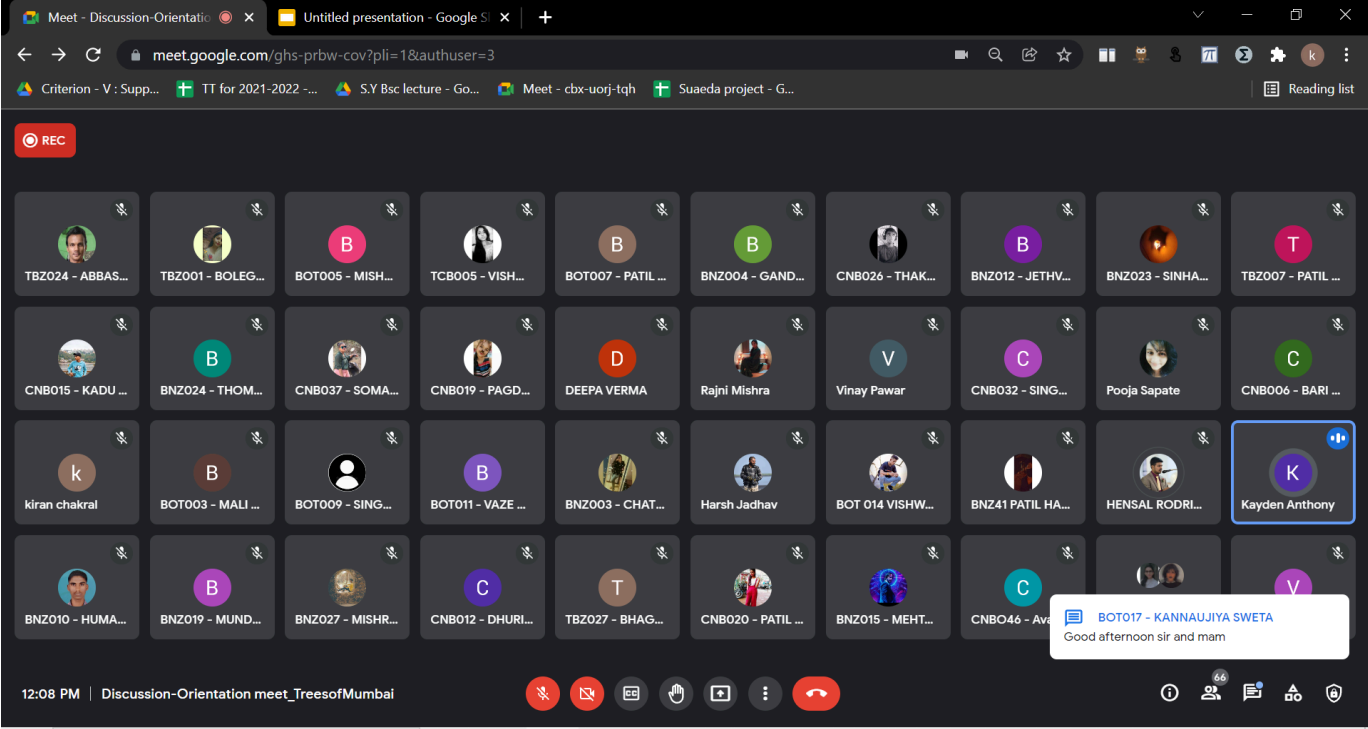


Brief report of programme (in 250 -300 words)	<p>The third-year Botany students have launched a peer-to-peer learning session centered on “Basics of Microbiology and its commercial Benefits”. The core microbiology laboratory techniques to be addressed include aseptic procedures, glassware wrapping, and pipetting. This activity aims to bolster student confidence and enhance their skill set. With a focus on catering to both advanced learners and those preferring a more gradual learning pace, this initiative ensures inclusivity and fosters comprehensive understanding among all participants.</p>
News Paper Cutting (if applicable/ or else NA)	NA
Attendance Sheet (PDF format - student signature- in case of events conducted offline; student list with link of recording for events conducted Online)	NA

Jeep

Signature of HOD

ACTIVITY REPORT

Name/ Title of the Programme: Trees of Mumbai				
Date(DD/MM/YYYY): 15th January-31st March 2022		Total Participants / Beneficiaries (in figures) – Total : 51		
Resource Person/ Chief Guest (If any or else NA):				
Sr. No.	Name of the Resource Person/ Chief Guest	Affiliation	Mobile Number	Email ID (if available)
2	Kayden Anthony	Greenline	8407924258	
Convener of Programme: Hensal Rodrigues				
Kindly Paste (2 –4 photographs) with proper details :				
 <p>The screenshot shows a Google Meet session titled 'Discussion-Orientation meet_TreesofMumbai'. The interface displays a grid of 40 participants, each with a profile picture and a name. Kayden Anthony is highlighted with a blue border. A chat bubble from BOT017 - KANNAUJIYA SWETA is visible at the bottom right, stating 'Good afternoon sir and mam'. The bottom of the screen shows the Windows taskbar with the time 12:08 and date 19-01-2022.</p>				

Memorandum of Understanding Between

GreenLine (Party 1)

Concerning environmental activities with the students of

Vishnu Waman Thakur Charitable Trust's, Bhaskar Waman Thakur College of Science,
Yashvant, Keshav Patil College of Commerce, Vidhya Dayanand Patil College of Arts,
(VIVA College) (Party 2)

Description of organization

GreenLine is an environmental organization that works with citizens to help create awareness about environmental issues that affect our city and empower them to take proactive measures towards a healthier environment through our three Programmes:

1. Green Schools Campaign
2. Green Lead Volunteers
3. Green Lifestyle Initiative

The age of the target audience for each campaign differs.

• Background

Through the Green Lead Volunteer Programme, Party 1 aims at working with motivated youth, training them to take up environmental leadership roles and providing them with field experience. Through activities like conducting surveys, awareness activities and clean-up drives we'd like to foster a sense of ownership that is taken up by college students of Party 2

Details

Party1 will be providing a structured framework for environmental activities which would be surveys, awareness-based activities as well as guidance and skill development workshops and volunteering opportunities which the students of Party 2 can take part in. Students will be asked to prepare reports of their work. GreenLine will be providing the students with a certificate of Completion on successfully completing the tasks.

• Outcome

The outcome of this partnership which is effective from 15th January 2022 to 31st March 2022 is to provide the youth with opportunities to learn and gain experience in the field of environment which will help shaping them into future environmental leaders while taking part in various environmental activities with quantifiable outcomes.



I/c Principal

Vishnu Waman Thakur Charitable Trust's
Bhaskar Waman Thakur College of Science,
Yashvant, Keshav Patil College of Commerce,
Vidhya Dayanand Patil College of Arts, (VIVA College)



Director
Greenline



<p>Brief report of programme (in 250 -300 words)</p>	<p>The "Trees of Mumbai" project was an engaging and educational initiative organized by Greenline, aimed at encouraging students to actively participate in documenting the diverse tree species found in Mumbai. The primary objectives of the program were to raise awareness and document the various tree species present in Mumbai. Also to compile data for the creation of a comprehensive data on "Trees of Mumbai."</p> <p>Training Session: Mr. Kayden Anthony organized an online training session to equip students with the necessary knowledge and skills for documenting trees effectively. The session provided students with the knowledge on how to use the Google Form for data collection and fundamental understanding of tree identification and documentation procedures.</p> <p>Student Participation: Over the course of one month following the training session, students actively engaged in documenting trees in their respective localities. Each student was provided with a Google Form specifically designed for tree data collection. The form included fields for recording tree species, location (including GPS coordinates) and any notable characteristics of the tree.</p> <p>Results: The student-led documentation efforts yielded valuable data on a multitude of tree species across Mumbai. This data will be instrumental in the creation of the data on "Trees of Mumbai"</p> <p>Conclusion: The "Trees of Mumbai" documentation program, spearheaded by Greenline, successfully engaged students in a meaningful and educational project. It not only raised awareness about the importance of trees in urban environments but also empowered students to actively contribute to the documentation of Mumbai's rich tree biodiversity. The collected data will serve as a valuable resource for years to come, benefiting both the local community and environmental enthusiasts.</p>
<p>News Paper Cutting (if applicable/ or else NA)</p>	<p>NA</p>
<p>Attendance Sheet (PDF format - student signature-in case of events conducted offline; student list with link of recording for events conducted Online)</p>	<p>Certificates: Tree Census Certificates Tree survey data: Mumbai Tree Survey (Viva College) (Responses).xlsx Invite: invitation letter.pdf Mumbai Tree Survey (1).pdf MoU:</p>




Signature of Convenor/s

Signature of HOD



CERTIFICATE OF APPRECIATION

GreenLine awards

Sangeeta Jain

For participating in the Mumbai Tree Survey

DIRECTOR GREENLINE



CERTIFICATE OF APPRECIATION

GreenLine awards

Shubhada Nikharge

For participating in the Mumbai Tree Survey

DIRECTOR GREENLINE



CERTIFICATE OF APPRECIATION

GreenLine awards

Sulekha Sharma

For participating in the Mumbai Tree Survey

DIRECTOR GREENLINE



CERTIFICATE OF APPRECIATION

GreenLine awards

**Aanchal Vishwakarma
Santosh**

For participating in the Mumbai Tree Survey

DIRECTOR GREENLINE



CERTIFICATE OF APPRECIATION

GreenLine awards

Aditi Mhatre

For participating in the Mumbai Tree Survey

DIRECTOR GREENLINE



CERTIFICATE OF APPRECIATION

GreenLine awards

Ajay Chandulal Gowadekar

For participating in the Mumbai Tree Survey

DIRECTOR GREENLINE



CERTIFICATE OF APPRECIATION

GreenLine awards

Amisha Sanjay Pawar

For participating in the Mumbai Tree Survey

DIRECTOR GREENLINE



CERTIFICATE OF APPRECIATION

GreenLine awards

Anirudhi.S. Mali

For participating in the Mumbai Tree Survey

DIRECTOR GREENLINE



CERTIFICATE OF APPRECIATION

GreenLine awards

Ankit Kadu

For participating in the Mumbai Tree Survey

DIRECTOR GREENLINE



CERTIFICATE OF APPRECIATION

GreenLine awards

Antesh Thakur

For participating in the Mumbai Tree Survey

DIRECTOR GREENLINE



CERTIFICATE OF APPRECIATION

GreenLine awards

Avantika Kiran Tandel

For participating in the Mumbai Tree Survey

DIRECTOR GREENLINE



CERTIFICATE OF APPRECIATION

GreenLine awards

Bhuvan Sinha

For participating in the Mumbai Tree Survey

DIRECTOR GREENLINE



CERTIFICATE OF APPRECIATION

GreenLine awards

Das Sushmita Nihar

For participating in the Mumbai Tree Survey

DIRECTOR GREENLINE



CERTIFICATE OF APPRECIATION

GreenLine awards

Deepak Vasant Rathod

For participating in the Mumbai Tree Survey

DIRECTOR GREENLINE



CERTIFICATE OF APPRECIATION

GreenLine awards

Dhiraj Ashok Bari

For participating in the Mumbai Tree Survey

DIRECTOR GREENLINE



CERTIFICATE OF APPRECIATION

GreenLine awards

Ekhnath Rasankar

For participating in the Mumbai Tree Survey

DIRECTOR GREENLINE



CERTIFICATE OF APPRECIATION

GreenLine awards

Esha Kushal Jaikar

For participating in the Mumbai Tree Survey

DIRECTOR GREENLINE



CERTIFICATE OF APPRECIATION

GreenLine awards

Gowadekar Ajay Chandulal

For participating in the Mumbai Tree Survey

DIRECTOR GREENLINE



CERTIFICATE OF APPRECIATION

GreenLine awards

Harsh Jadhav

For participating in the Mumbai Tree Survey

DIRECTOR GREENLINE



CERTIFICATE OF APPRECIATION

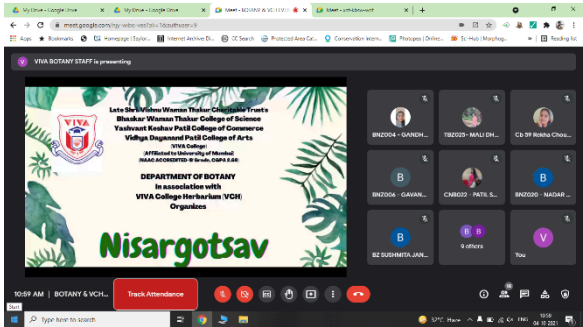
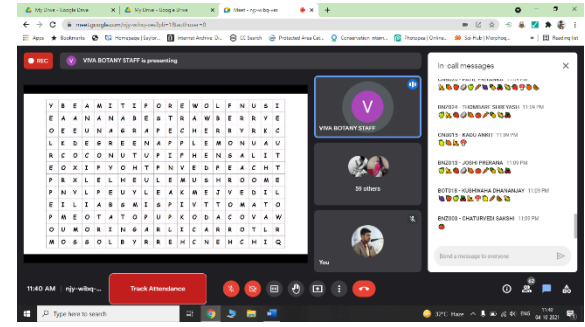
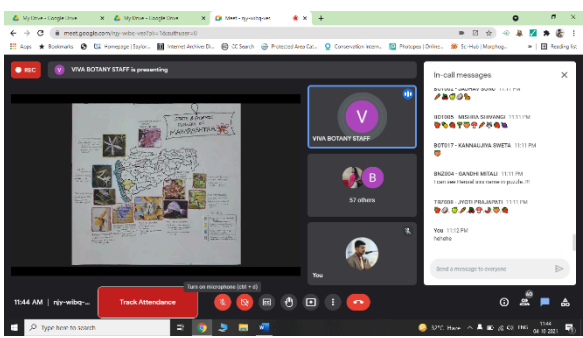
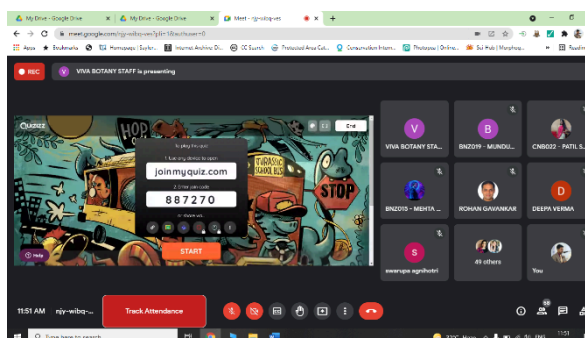
GreenLine awards

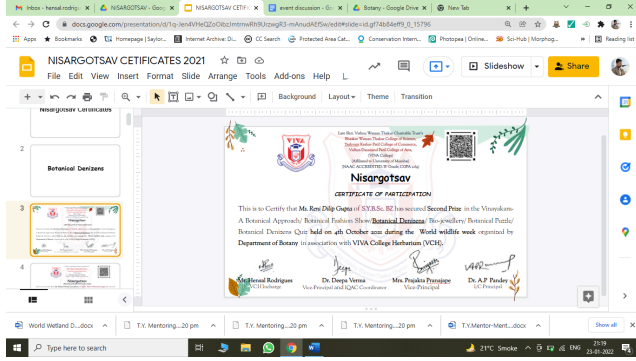
Himanshu Pramod Bari

For participating in the Mumbai Tree Survey

DIRECTOR GREENLINE

ACTIVITY REPORT

Name/ Title of the Programme: Nisargotsav				
Date (DD/MM/YYYY): 4 October 2021		Total Participants / Beneficiaries (in figures) – Total: 21 Male: Female:		
Resource Person/ Chief Guest (If any or else NA):				
Sr. No.	Name of the Resource Person/ Chief Guest	Affiliation	Mobile Number	Email ID (if available)
1.	Dr. Swarupa Agnihotri	Ast. Prof. Dept. of Botany, VIVA College		
2	Ms. Tanvi Bore	Ast. Prof. Dept. of Biochemistry, VIVA College		
Convener of Programme: Hensal Rodrigues & Kiran Chakral				
Kindly Paste (2 –4 photographs) with proper details:				
 <p>Main event: Google meet live</p>		 <p>Ice breakers of the event: Virtual Puzzles</p>		
		 <p>Ice breaker of the event: Quizzes</p>		

 <p style="text-align: center;">Event Certificates</p>	
<p>A brief report of the programme (in 250 -300 words)</p>	<p>The following events were conducted under the theme of Nisargotsav</p> <ul style="list-style-type: none"> ● Vinayakam- A Botanical Approach ● Botanical Denizens ● Botanical Fashion show ● Biojewellery ● Quiz and Puzzle <p>Students were to opt for the event via google forms, prepare for the same and submit their entries. The entries were then displayed on the event Day along with the declaration of winners by our esteemed judges Ms. Tanvi Bore and Dr Swarupa Agnihotri.</p>
<p>News Paper Cutting (if applicable/ or else NA)</p>	<p>NA</p>
<p>Attendance Sheet (PDF format - student signature-in case of events conducted offline; student list with link of recording for events conducted Online)</p>	<p>Google Meet Recording: https://drive.google.com/file/d/1k4EHI35g2MDXO4_y5NIMp-c58L_AZld0/view?usp=sharing</p> <p>Google meet chat: https://drive.google.com/file/d/19Aa0gT2l1MLkFh_OTfLsMnG27DQ93G29/view?usp=sharing</p>



Signature of Convenor/s



Signature of HOD



Sr.no	Particulars	
1.	Department Name	Department of Accounting and Finance
2.	Name of the Program and Course Code	Basic Course on e-Return Filing, GST
3.	Duration	30 Hours
4.	Date of Commencement	Tentative 15th May 2021
5.	Curriculum / Syllabus copy of the course	Attached below
6.	Committee (BoS) for syllabus setting	1. Chairman : Dr. Audrin A. Colaco 2. Coordinator : Ms. Bhakti Purandare 3. Member : CA Arvind J. Jain (Alumni) 4. Member : Mr. Brijesh Vyas (Alumni)
7.	Mode of Delivery of the curriculum	ONLINE: Google classroom
8.	Assessment procedure	Test, Assignments etc
9.	Outcomes of the program	1. Students will able to file personal e-Return for Income Tax. 2. Students will able to file GSTR online.
10.	List of Enrolled Students	Not needed now
11.	Attendance record of students	Not needed now
12.	Certificates issued	Specimen certificate
13.**	Feed Back forms	Not needed now
14.***	Permission copy (Sanction from Higher Authority)	Minutes of the Meeting with higher authority (Principal sir + VP + IQAC Chairman + any member of IQAC +BoS)

Curriculum / Syllabus copy of the course

	Contents	No. of Hours
Module 1	Basics of Income Tax	04
	a] Meaning of Income Tax b] Difference between Direct Tax and Indirect Tax c] Definition of Person Under Income Tax Act 1961 d] Residential Status (Sec. 6) e] Brief note on Sec. 9 f] Meaning of Financial Year and Assessment Year	
Module 2	Tax Planning	02
	a] Deduction under Chapter VIA b] Different Investment options	
Module 3	Rate of Tax	10
	a] Tax Slab for Individual / HUF / AOP / BOI / AJP b] Tax Rate for companies c] Tax Rate for Partnership Firms d] Surcharge and Health & Education Cess e] Tax Deducted at Source (TDS) f] Advance Tax	
Module 4	Permanent Account Number (PAN)	02
	a] Need for PAN b] Application for PAN c] Persons mandatorily require to obtain PAN d] PAN for different Persons	
Module 5	Income Tax Return (ITR) Filing	02
	a] Person require to file returns b] Due dates for filing ITR c] Various ITR forms for different class of persons	
Module 6	Practical Training on How to file Income Tax return online for different persons	04
Module 7	Basics of GST	02
Module 8	Practical training on <ul style="list-style-type: none"> • Registration under GST • Filing GSTR online 	04

ACTIVITY REPORT 2019-2020

Department of Biochemistry

Name/ Title of the Programme: RICERCA – Poster presentation				
Date(DD/MM/YYYY): 08/02/2020		Total Participants / Beneficiaries (in figures) – Total : 150 students		
Resource Person/ Chief Guest (If any or else NA): NA				
Sr. No.	Name of the Resource Person/ Chief Guest	Affiliation	Mobile Number	Email ID (if available)
1.	Ms Madhavi Chawan	Product Manager, Haffkine Bio-Pharmaceutical Corporation Limited		
2.	Dr Hitesh Shingadia	Assistant Professor, Mithibai College		
Convener of Programme: Ms. Tanvi Bore				
Kindly Paste (2 –4 photographs) with proper details :				
		Details : Principal sir Dr. A.P. Pandey & Vice Principal Mrs. Prajakta Paranjape madam, Having a look of event and conversation with students		
		Details : Dr. Rohan Gavankar and Management committee having a look of event.		
Brief report of programme (in 250 -300 words)		Department of Biological sciences had organized a poster presentation session-“Ricerca” on 8 th February 2020 at		

	<p>VIVA college old campus. Now Ricerca is basically an Italian word which means research or investigation or pursuit which was the base of this poster presentation. Around 150 students from FY, SY and TY from all biological sciences departments together were a part of this research meet. Various posters in the categories of Research and Review were displayed by the students from all the departments. For the evaluation process the Judges Ms. Madhavi Chawan from Haffkine Institute and Dr Hitesh Shingadia, department of zoology from Mithibai college were invited as the Judges. Even the management of our college made their visit to boost the confidence of the participants and even shared their views for the same. Last but not the least Prizes were given in different categories to students like best poster design, best presentation 1st , 2nd and 3rd prize for research as well as review poster. Special categories prizes like best presenter, awareness posters, best innovative thinking etc were also awarded to the students. The main aim of this activity was exposing the students to the concept of how the posters for research work are made as well as this helped them in improving their presentation skill as well which was the basis of this research meet</p>
News Paper Cutting (if applicable/ or else NA)	NA
Attendance Sheet (PDF format - student signature-in case of events conducted offline; student list with link of recording for events conducted Online)	

RICERCA REGISTRATION SHEET Research

DATE: 8th Feb, 2020

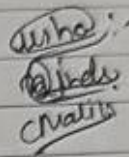
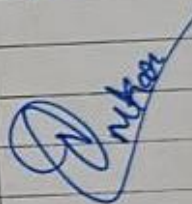
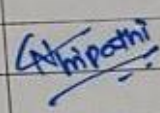

Old campus Room No. 402

CODE NO	SR.NO	NAME	DEPARTMENT	SIGN
	2	Ganish Saldanha	TY Biotechnology	<i>Saldanha</i>
	3	Vaibhavi More	TYBT	<i>Vaibhavi</i>
	4	Arisha Golambade	TYBT	<i>Golambade</i>
	5	Shalinee Sharma	TYBT	<i>Sharma</i>
15	1	Fiza Basha	TYBT	<i>Fiza</i>
	2	Alpita Agre	TYBT	<i>Alpita Agre</i>
	3	Divya Amrutkar	TYBT	
	4	Ritika Bhagat	-	
	5	Aishwarya Mayawanshi	-	
16	1	Hartud Patil	TYBT	<i>Hartud</i>
	2	Rupali Patil	-	
	3	Mansi Tadhar	-	
	4	Ruchita Avasare	TYBT	<i>Adel</i>
17	1	Aradhana Dash	TYBT	
B. Design	2	Ratish Brajapati	TYBT	
Gold	3	Rakesh Mawthi	TYBT	
	4	Yash Salunkhe	TYBT	
O.A-S	5	Suncet Vadak	TYBT	
18	1	URVI K. SONAVANE	TYBT	<i>Urvi</i>
	2	SNEHA A. NAIK	TYBT	
	3	SAHARSHA S. VALDYA	TYBT	
	4	NAMRA CHURASHI	TYBT	
19	1	Swati Mishra	TYBT	
	2	Vibha Mishra	TYBT	

RICERCA REGISTRATION SHEET (Research)

DATE: 8th Feb, 2020

old campus Room NO. 402

CODE NO	SR.NO	NAME	DEPARTMENT	SIGN
20	3	Usha Sharma	TYBT	
	1	Bindu Gupta		
	2	Chandana Malik		
21	01	Meit M. Vyas	B.P - G	
	02	Omkar N. Narskar		
	03	Ankit V. Talekar		
	04	Suraj R. Vishwakarma		
	05	Shubham U. Rai		
22	01	Meit M. Vyas	TYBT	
	02	Omkar N. Narskar		
	03	Omkar S. Paul		
	04	Shubham U. Rai		
23	01	Nitish K. Tripathi	TYBT	
	02	Prince Mishra		
	03	Ali Khan		
	04	Sushant More		
	05	Ranju Singh		
24	01	Ratish A. Prajapati	T.Y.B.T — " —	
	02	Aashima H. Dash		

RICERCA REGISTRATION SHEET (Research)

DATE: 8th Feb, 2020

old campus
Room no. 402

CODE NO	SR.NO	NAME	DEPARTMENT	SIGN
1	1	Auchana Singh	Biotechnology	Auchana
	2	Jasika Shrivastava	B	Jasika
	3	Pranita Boloar		Pranita
	4	Nivedita Mathur		Nivedita
	5	Shivam . J. Pandey		Shivam . P.
02	01	Vidyapati Thakur	Biochemistry	V.P.
03	01	Vidyapati Thakur	Biochemistry	V.P.
04	01	Prethi Acharya	Biotechnology	PA
	02	Pooja Dhulap	Biotechnology	P.S. Dhulap
	03	Samidha Jadhav	"	Jadhav
	04	Ritika V Varma	"	Ritika
	05	Roshni Pandey	"	Roshni
05	1	Ritika V Varma	Biotech	Ritika
	2	Prethi Acharya	"	PA
	3	Samidha Jadhav	"	Jadhav
	4	Pooja Dhulap	"	P.S. Dhulap
	5	Roshni Pandey	"	Roshni
06	1	Hetal Moleshi	Biotechnology	Hetal
	2	Aashutosh Naule	"	Ashu
	3	Harshal Panulekar	"	Harshal
	4	Sureshnil Mairale	"	Suresh
	5	Atikay Singh	"	Atikay
07 G	1	Neha Gupta	Biotechnology	Neha
	2	Sayali Kini	"	Sayali

RICERCA REGISTRATION SHEET (Review)

DATE: 8th Feb, 2020

Old campus R. N. 402

CODE NO	SR.NO	NAME	DEPARTMENT	SIGN
01	1	Ashish Narwankar	Botany (CB)	<u>Burke</u>
	2	Bhushan Parab	SY (CB)	<u>B</u>
02	1	Vesma Priamila Ramasani	Biochemistry	<u>Priamila</u>
03	1	Saheba Motani	Biochemistry	<u>Saheba</u>
	2	Vidhyapati Thakur		
	3	Priyanka Vishwakarma		
	4	Durgesh Chore		
04	1	Ganga Jayakumar	T.Y. Biochemistry	<u>Ga.</u>
	2	Anisha Patil		<u>Anisha</u>
	3	Saxanna Menon		<u>Saxanna</u>
05	1	Sagar Tiwari		
	2	Aditi Upadhaya	F.Y. BioTech	<u>Aditi</u>
	3	Kshiti Ja Dhomne		
	4	Khushboo Sayyed		
06	1	Pr Prashit Mishra	F.Y. Biology (CBZ)	<u>Prashit</u>
2				

RICERCA REGISTRATION SHEET (Research)

DATE: 8th Feb, 2020

old campus Room No 432

CODE NO	SR.NO	NAME	DEPARTMENT	SIGN
08	3	Siruchi S. Pal.	"	
	4	Akhilesh R. Dhuri	"	
	5	Manal B. Golikar.	"	
	01	Aditya Menon	TY-Biotechnology	
	02	Rohit Gupta	TY	
09	01	Dheeraj Dubey	"	
10	1	Omkar Paul	Biotech	
	2	Jay Pawar	Biotech	
	3	Prateesh Pawar	Biotech	
	4	Muldeep Sutar	Biotech	
	5	Yogesh Kanagal	Biotech	
11	1	Omkar Chavan	Biotech	
	2	Shirshant Upadhyay		
12	1	Rasika Tandel	T.Y Biotech	
	2	Jilli Jadhav		
	3	Dipti Patil		
13	4	Sayali Gholap		
	5	Namrata Wanganekar		
	1	Asha Yadav	TY Biotech	
	2	Gauri Bhagat		
	3	Manita Sharma		
14	4	Nivedita Rasal		
	5	Amruta Sutar		
	1	Kirti Nalla	TY Biotech	

Signature of Convener/s

Signature of Coordinator

EXTRA CURRICULAR AND SUBJECT BASED ACTIVITIES

STAFF REPORT

BY: MR. HENSAL RODRIGUES

DEPARTMENT OF BOTANY, VIVA COLLEGE, VIRAR (W)

Academic Year 2018-19 & 2019-20

CONTENT

Sr. No.	Name of the Activity	Academic Year
1	Herbarium visit – BLAT, RDNCP	2018-19
2	A Leap Forward in Understanding Plant Taxonomy – Plant family food	2018-19 & 2019-20
3	A Leap Forward in Understanding Plant Taxonomy – vegetable Market visit	2018-19
4	Short excursion – Kanheri caves	2018-19
5	Long Excursion – Pachmari_Kanha excursion	2018-19
6	Short excursion - Gorai & VIVA college wetland	2019-20
7	Herbarium making	2019-20
8	College Herbarium establishment – VIVA college Herbarium	2019-20

Herbarium visit – BLAT, RDNCP (2019-20)

Date	23rd & 24th January 2019
Venue	Blatter Herbarium (BLAT), Churchgate, 400001 R. D. National College Herbarium (RDNCP), Bandra (W), 400050
Target students	TY Botany & TY BZ
Accompanied Professors	Mr. Hensal Rodrigues, Mr. Kiran Chakral

Introduction:

Herbarium, collection of dried plant specimens mounted on sheets of paper. The plants are usually collected in situ (e.g., where they were growing in nature), identified by experts, pressed, and then carefully mounted to archival paper in such a way that all major morphological characteristics are visible (i.e., both sides of the leaves and the floral structures). The mounted plants are labelled with their proper scientific names, the name of the collector, and, usually, information about where they were collected and how they grew and general observations. The specimens are commonly filed in cases according to families and genera and are available for ready reference.

Herbarium collections are often housed in botanical gardens, arboretums, natural history museums, and universities. The largest herbaria, many of which are in Europe, contain several million specimens, some of which date back hundreds of years. Herbaria are the “dictionaries” of the plant kingdom and provide comparative material that is indispensable for studies in plant taxonomy and systematics. Given that nearly every plant species has a dried “type specimen” on which its description and Latin name are based, taxonomic disputes are commonly resolved by referencing type specimens in herbaria. The collections are also essential to the proper naming of unknown plants and to the identification of new species.

(<https://www.britannica.com/science/herbarium-botany>)

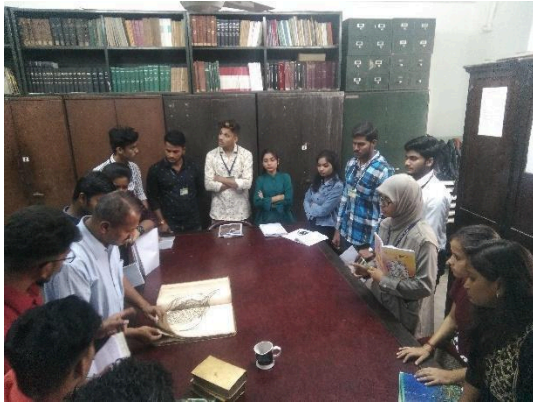
Blatter Herbarium: The Blatter Herbarium is an internationally recognized herbarium for Taxonomic studies and allied branches in Botany. It was established in 1906 in St. Xavier's College, Bombay, by the Jesuit Priest - Rev. Fr. E. Blatter. In 1941, it was renamed, "The Blatter Herbarium" by Rev. Fr. H. Santapau, who served as its director for many years. Fr. Santapau later became the Director of the Botanical Survey of India at Calcutta. He was awarded the 'Padmashri' by the Government of India and the 'Birbal Sahani Medal' by the Indian Botanical Society in 1964 for his services to Indian botany. BLAT is listed in the Index Herbariorum published from KEW - Royal Botanic Gardens.

- The students were taken in two different batches on two different days to the two known herbaria's in Mumbai namely, Blatter herbarium and R. D. National College Herbarium

Minutes of the visit:

- **At Blatter herbarium** the students were guided by **Mr. Praveen Kale, Assistant curator**. He explained the history and importance of Blatter herbarium
- the students were first taken to the library of Blatter herbarium and were shown old literatures of India like the **Hortus Malabaricus by Van Rheedee (1600), Linnaeus Species Plantarum (1753), Fl. Maharashtra by M.R. Almeida (2000's)**. They were explained the importance of Botanical illustrations in plant taxonomy through Van Rheedee's illustrations and also how to interpret taxonomic data through Linnaeus Species Plantarum.
- Students were exposed to the variety of taxonomic literature which dates back to the 17th Century, floras, journals, field books etc.
- They were then taken into the Herbarium section, where the importance of herbarium sheet was made known. they were briefed about how to make an herbarium sheet and what are the criteria's required to make a sheet. Various algal, pteridophytes and angiosperm specimens were shown along with Type specimens
- Students then seen the collection of Blatter herbarium which included, plant-based products, lichens, double coconut, Entada Fruit lomentum, various wood types, etc.
- Finally, there was a good interaction, as the students posed their questions regarding herbarium and their doubts.

- The sessions ended by the students paying their feedback on the book of Blatter herbarium.



TY Botany students With Mr. Praveen Kale showing illustration of Hortus Malabaricus



At the Blatter Herbarium, students being explained about the herbarium sheets and type's of herbarium



TYBZ students learning about Herbarium library and literature



TYBZ students observing specimens of wet & Dry preservation and plant based products



At the corridor of Blatter Herbarium, students were shown the founder of Blatter Herbarium Fr. Santapau



Ms. Zeba (TY botany) interacting with Mr. Praveen Kale, Assistant Curator

RDNCP Herbarium:

The Herbarium was inaugurated By Dr. K. N. Gandhi, Senior Nomenclatural Registrar Harvard, University. The Herbarium was single handedly initiated by Dr. Suchandra Dutta in which the concept of Undergraduate research is very vastly promoted. The Herbarium has discovered a few new species and varieties, conducted nomenclatural corrections for various plant taxa's and many more taxonomic researches. It consists of Type specimens, and specimens from throughout India. with special collections from North India (including certain parts of the Himalayan ranges) and Maharashtra. Special emphasis is given to plant-based products and a good collection is instilled at the herbarium. The Herbarium also takes in projects and conducts courses on Herbarium. The Herbaria is recognised internationally by organisations like tropicos.org, ipni.org and has got permission for digitalization of the specimens.

Minutes of the visit.

- In the afternoon the students assembled at **R. D. National College**. Here the students were guided by **Dr. Suchandra Dutta Assist. Prof. Dept. of Botany**, who gave emphasis on how to develop an Herbarium.
- The students were given pointer on how to makes their own herbarium for the college, as RDNCP is a developing herbarium, it was the best place to visit to enhance the students interest in making an herbarium

- Here they were made aware on the importance of making an herbarium for the college, and how every student can help in some way or the other to contribute to the development of the Herbarium
- They were also shown how to apply basic knowledge to interpret taxonomic problems with an example of *Hibiscus lilliflorus*
- The students were then shown the Isotype of *Hibiscus hirtus* L. var. *inarticulatus* S. Dutta, H. Rodrigues et. K. Chakral., deposited at RDNCP, and were told about the weightage and importance of Type specimens at an Herbaria.
- They were also explained how simple basic knowledge of Graduation in Botany can help discover new species.
- Our college also **deposited about 40 herbarium specimens of SY 2018-19** batch to create ties and increase interdepartmental connections for future Taxonomic studies for the students.



TY Botany students were given insight on how to develop an Herbarium by Dr. Suchandra Dutta



TY Botany Students were shown The importance of critical taxonomic characters and the Type specimen



TYBZ students were made aware about the allied themes to an Herbarium TYBZ student were shown Isotype specimen



Discussion of Taxonomic characters for herbarium identification

A Leap Forward in Understanding Plant Taxonomy – Plant family food (2019-20)

Date	Throughout the academic year
Venue	VIVA college, Virar (W), 401303
Target students	TY Botany & TY BZ

Accompanied Professors	Mr. Hensal Rodrigues
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Activity conducted w.r.t. syllabus – **Edible plants in relation to Plant Taxonomy:**

This activity has been implemented to make the students aware of the plant families of which the students of third year study as part of their curriculum. An innovative way to give the students insight into the importance of plant names and their parts used along with uses. It makes a connection of studies and food we consume in our everyday life. This activity keeps the students updated with botanical names of the plants they studied, and is a unique aid to memorise the same.

The activity is conducted weekly on Saturdays. The students are given a Theme of any plant family a few days prior, and are advised to bring dishes made from the members of the said family. On the activity day the students along with the teacher open up their lunch boxes together and study the plants brought, by explaining their scientific name, common name, part used and uses, which makes them aware of the plants they are consuming. The studied plants are then documented by the students photographically and also, they also bring forth the information through WhatsApp group.

Enumeration of plants studied during the activity- **Edible plants in relation to Plant Taxonomy:**

Family	Date	Sr. No.	Botanical Name	Family	Common name	Part used
<i>Cucurbitaceae</i>	14 th July 2018	1	<i>Cucumis sativus</i> L.	<i>Cucurbitaceae</i>	Cucumber	Fruit

		2	<i>Coccinia grandis</i> (L.) Voigt	<i>Cucurbitaceae</i>	Tondli	Fruit
		3	<i>Cucurbita maxima</i>	<i>Cucurbitaceae</i>	Bhopla	Fruit
		4	<i>Momordica dioica</i>	<i>Cucurbitaceae</i>	Padwal	Fruit
<i>Solanaceae</i>	21 st July 2018	1	<i>Solanum tuberosum</i> L.	<i>Solanaceae</i>	Potato	Stem tuber
		2	<i>Solanum melongena</i> L.	<i>Solanaceae</i>	Brinjal	Fruit
		3	<i>Lycopersicon esculentum</i> Mill.	<i>Solanaceae</i>	Tomato	Fruit
		4	<i>Capsicum annum</i> L.	<i>Solanaceae</i>	Capsicum/chilly	Fruit
Leafy vegetables	28 th July 2018	1	<i>Portulaca oleracea</i> L.	<i>Portulacaceae</i>	Barik ghol	Leaves
		2	<i>Colocasia esculenta</i> (L.) Schott	<i>Araceae</i>	Alu	Leaves
		3	<i>Trigonella foenum-graecum</i> L.	<i>Fabaceae</i>	Methi	Leaves
		4	<i>Amaranthus tricolor</i> L.	<i>Amaranthaceae</i>	Lal maat	Leaves
		5	<i>Coriandrum sativum</i> L.	<i>Apiaceae</i>	Dahnia	Leaves

		6	<i>Allium cepa</i> L.	<i>Amaryllidaceae</i>	Kanda	Leaves
		7	<i>Mentha</i> × <i>piperita</i> L.	<i>Lamiaceae</i>	Pepper-mint	Leaves
Market visit -virar	30 th July 2018	1	<i>Leea asiatica</i> (L.) Ridsdale	<i>Leeaceae</i>		Young stem
		2	<i>Smithia conferta</i> Sm.	<i>Fabaceae</i>		Leaves
		3	<i>Senna tora</i> L.	<i>Caesalpinaceae</i>	Talka	Leaves
		4	<i>Celosia argentea</i> L.	<i>Amaranthaceae</i>	Kurdu	Leaves
		5	<i>Impatiens balsamina</i> L.	<i>Balsaminaceae</i>	Terada	Flower
		6	<i>Bambusa</i> sp.	<i>Poaceae</i>	Vaasta & Amboada	Young shoot
		7	<i>Moringa oleifera</i> Lam.	<i>Moringinaceae</i>	Shevga	Leaves
<i>Poaceae</i>			<i>Triticum aestivum</i> L.	<i>Poaceae</i>	Gehu	Grain
			<i>Oryza sativa</i> L.	<i>Poaceae</i>	Chawal	Grain
			<i>Zea mays</i> L.	<i>Poaceae</i>	Maaka	Grain
<i>Papilionaceae</i>	18 th Aug ust 2018	1	<i>Vigna mungo</i> L.	<i>Papilionaceae</i>	Moong	Seeds
		2	<i>Pisum sativum</i> L.	<i>Papilionaceae</i>	Green peas	Seeds
		3	<i>Cicer arientium</i> L.	<i>Papilionaceae</i>	Chana	Seeds
		4	<i>Tamarindus indica</i> L.	<i>Papilionaceae</i>	Chinch	Fruit pulp

<i>Apiaceae</i>	25 th Aug ust 2018	1	<i>Cuminum cuminum</i> L.	<i>Apiaceae</i>	Jeera	Fruits
		2	<i>Daucus carota</i> L.	<i>Apiaceae</i>	Gajar	Root
		3	<i>Coriandrum sativum</i> L.	<i>Apiaceae</i>	Dahnia	Leaves
		4	<i>Trachysperm um ammi</i>	<i>Apicaceae</i>	Ajwain	Fruits

Apiaceae



Poaceae



Solanaceae



Cucurbitaceae



Leafy vegetables



**A Leap Forward in Understanding Plant Taxonomy – vegetable
Market visit (2019-20)**

Date	During monsoon
Venue	Virar vegetable market east
Target students	TY Botany & TY BZ
Accompanied Professors	Mr. Hensal Rodrigues, Mr. Vaibhav Satvi

Introduction: A field trip was conducted specially for the students of Third year Botany and Botany-Zoology to understand the importance of wild vegetables for consumption and its health benefits. Considering the present-day situation in which the world resorts to fast food because of its ever increasing craze and taste, which leads to various illnesses and disorders like obesity, fatigue, improper bowel movements, intestinal problems and many more to add. As botany students we need to know the plants around us and their uses, in Viva college we make sure to consider this as a prime responsibility to bring this to the students' knowledge which will in turn make them keener and more interested in botany and plant taxonomy.

The field visit was conducted to a nearby accessible place to all students i.e. Virar station west market. This market is visited by almost all the people resident in Virar and surrounding areas. The beauty of this market is that the main non-conventional vegetables come early at the break of dawn when the vendors assemble at that very spot no sooner than 5-6am in the morning and the market gets almost empty of their vegetables by the end of the hour itself. The vendors bring vegetables collected from cultivated areas and from wild areas of Virar - Palghar region. Boarding the very first train, these vendors arrive to make their income for the day by 5am. The vegetables brought here are fresh and unpolluted by chemical treatment which make them healthier than the ones purchased from super markets and big bazaars. With a little bit of bargaining skills one can get vegetables at prices appealing to one's fancies.

The students were taught about the taxonomical aspect of the plants sold in the market ranging from its characters to botanical names, families and nomenclatural dilemmas. They were also made aware about the use of the vegetables and the importance of consuming wild monsoon vegetables during this season. The vendors were also questioned for the recipes of

preparation. Furthermore, the students and the accompanying professors ended up purchasing quite a number of non-conventional wild vegetables for their home table.

Enumeration of the wild plants documented during the field visit at Virar west local market:

Sr. No.	Botanical Name	Family	Common Name	Part used	uses
1	<i>Bambusa</i> sp	<i>Poaceae</i>		Young shoot	Edible
2	<i>Leea asiatica</i> (L.) Ridsdale	<i>Leeaceae</i>		Young stem	Edible
3	<i>Impatiens balsamina</i> L.	<i>Balsaminaceae</i>	Terada	Flowers	Offering
4	<i>Senna tora</i> L.	<i>Fabaceae</i>	Takla	Leaves	Edible
5	<i>Smithia sensitiva</i> Sm.	<i>Fabaceae</i>		Leaves	Edible
6	<i>Musa x paradisiaca</i> L.	<i>Musaceae</i>	Kelacha phul	Inflorescence	Edible
7	<i>Amaranthus</i> sp	<i>Amaranthaceae</i>	Maath	Leaves	Edible
8	<i>Celosia argentea</i> L.	<i>Amaranthaceae</i>	Kurdu	Leaves	Edible
9	<i>Aegle marmelos</i> (L.) Corrêa	<i>Rutaceae</i>	Bael patra	Leaves	Offering
10	<i>Moringa oleifera</i> Lam	<i>Moringinaceae</i>	Shevga	Leaves	Edible

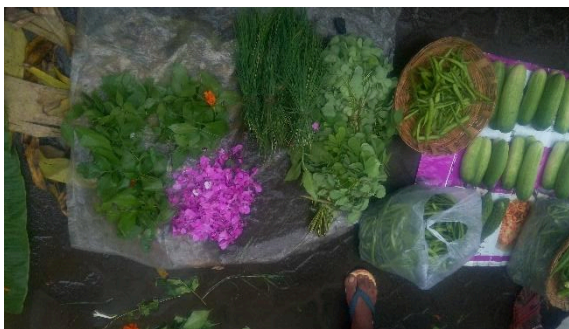
Following are the images taken during the field study at Virar W. Market:



Takla – leafy vegetable



Young bamboo shoots sliced and sold



Terada flowers sold as floral offering to Gods



Banana inflorescence as a vegetable



Local vender



Local vender



Mr. Vaibhav Satvi explaining the methodology of cutting the young bamboo shoots



Mr. Hensal Rodrigues giving taxonomic background of young stem of *Leea asiatica*



TY Botany and BZ students at the field visit



Explanation of wild vegetables



Short excursion – Kanheri caves (2019-20)

Date	During monsoon
Venue	Kanheri caves, SGNP, Borivili (E)
Target students	SYBSc BZ & SYBSc CB, TYBSc Botany & TYBSc BZ
Professor as field guide	Mr. Hensal Rodrigues, Mr. Kiran Chakral
Accompanied professors	Mr. Pratik Jagtap, Ms. Pooja Tiwari & Mr. Atul Dubey
Photo courtesy	Mr. Shubham Hadkar (SYBSc BZ-2018-19)

Introduction to Kanheri caves:

The Sanjay Gandhi National Park (SGNP) is situated between 72° 53' to 72° 58' East longitude and 19° 88' to 19° 21' North latitude and lies within the city limits of Mumbai. The total area of the National Park is currently 103.09 km². Sanjay Gandhi National Park (SGNP) which consists mainly of basic lava flows. Basic lava flows consist of basalt and are called basic since they contain less than 45 percent of free silica. This type of geology gives the park's terrain an undulating topography of hills, valleys, lakes and open areas. The undulating scenery forms ideal catchments for the Powai, Vihar and Tulsi lakes. The Bassein (Vasai) Creek divides SGNP into the northern (Nagla) and southern blocks.

The word Kanheri comes from the Sanskrit word Krishnagiri which means 'Black Mountain'. They are maintained by the Archeological Survey of India. These caves are a major point of interest in the park as they are Buddhist Caves that date back from the 1st Century BC to the 9th Century AD. There are around 109 caves that have been discovered so far and they are all made out of volcanic rock

Minutes of the Excursion:

- The students assembled at the Gate of Kanheri caves on the 10th of August 2018 at 8:30am and were taken up to kanheri caves.
- The place was introduced to the students as a historical Buddhist cave governed by the archeological survey of India and the Forest department of Sanjay Gandhi National Park.
- Then the crowd was split into two groups, each group headed by a field guide and two teachers accompanying them, and set off to two different locations on the kanheri plateaus.
- Amidst the rain the students were made aware about the flora and fauna, along with plant animal interactions at kanheri caves, importance was given to endemic plants, type localities, forest types, evolution, and various types of habits. The students were also given a brief history of how the caves we formed and how it supports various endemic life forms due to its lateritic plateau and seasonal water pools and falls.
- Surveying throughout the forest of kanheri caves the students documented the plants explained by the field guides and were also given live examples to the plant families incorporated in their syllabus making study of plants little more interesting.
- The Field study ended in the afternoon around 2pm. The students departed with good memories and ample knowledge.

Plant Enumeration of Kanheri caves:

Botanical Name	Family
<i>Phyllanthus amarus</i>	<i>Phyllanthaceae</i>
<i>Sterculia urens</i>	<i>Malvaceae</i>
<i>Leea asiatica</i>	<i>Leeaceae</i>

<i>Curculigo orchiodes</i>	<i>Hypoxidaceae</i>
<i>Urena sinuata</i>	<i>Malvaceae</i>
<i>Urena lobata</i>	<i>Malvaceae</i>
<i>Bombax ceiba</i>	<i>Malvaceae</i>
<i>Anthoceros angustus</i>	<i>Anthocerotaceae</i>
<i>Justicia procumbens</i>	<i>Acanthaceae</i>
<i>Funaria sp.</i>	<i>Funariaceae</i>
<i>Pepromia sp.</i>	<i>Piperaceae</i>
<i>Biophytum sensitivum</i>	<i>Oxalidaceae</i>
<i>Senecio bombayensis</i>	<i>Asteraceae</i>
<i>Ficus arrnotiana</i>	<i>Moraceae</i>
<i>Strobilanthes callosa</i>	<i>Acanthaceae</i>
<i>Murdannia semiteres</i>	<i>Commelinaceae</i>
<i>Mukia maderaspatna</i>	<i>Cucurbitaceae</i>
<i>Helecteres isora</i>	<i>Malvaceae</i>
<i>Crinum latifolium</i>	<i>Amaryllidaceae</i>
<i>Cyanotis axillaris</i>	<i>Commelinaceae</i>
<i>Nyctanthes arbor-tristis</i>	<i>Oleaceae</i>
<i>Amorphophallus commutatus</i>	<i>Araceae</i>
<i>Lindernia ciliata</i>	<i>Linderniaceae</i>
<i>Eriocaulon heterolepis</i>	<i>Eriocaulaceae</i>
<i>Ensete superbum</i>	<i>Musaceae</i>
<i>Ramphicarpa longiflora</i>	<i>Scrophulariaceae</i>
<i>Orthosiphon thymiflora</i>	<i>Lamiaceae</i>
<i>Ceropegia vincifolia</i>	<i>Apocynaceae</i>
<i>Ariopsis peltata</i>	<i>Araceae</i>
<i>Trichodesma indicum</i>	<i>Boraginaceae</i>
<i>Sida acuta</i>	<i>Malvaceae</i>
<i>Dioscorea bulbifera</i>	<i>Dioscoreaceae</i>
<i>Hellinia speciosa</i>	<i>Costaceae</i>
<i>Dipcadi saxorum</i>	<i>Asparagaceae</i>
<i>Vigna radiata</i>	<i>Fabaceae</i>

<i>Mimosa pudica</i>	<i>Fabaceae</i>
<i>Utricularia straitula</i>	<i>Lentibulariaceae</i>
<i>Begonia crenata</i>	<i>Begoniaceae</i>
<i>Commelina frosakaeli</i>	<i>Commelinaceae</i>
<i>Impatiens balsamina</i>	<i>Balsaminaceae</i>
<i>Adiantum sp.</i>	<i>Adiantaceae</i>
<i>Curcuma pseudomontana</i>	<i>Zingiberaceae</i>
<i>Curculigo orchiodes</i>	<i>Hypoxidaceae</i>
<i>Celosia argentea</i>	<i>Amaranthaceae</i>
<i>Ixora sp.</i>	<i>Rubiaceae</i>
<i>Gardenia gummifera</i>	<i>Rubiaceae</i>
<i>Tectona grandis</i>	<i>Verbenaceae</i>
<i>Ageratum conyzinoides</i>	<i>Asteraceae</i>
<i>Cardamine hirsuta</i>	<i>Brassicaceae</i>
<i>Neuracanthus sphaerostachys</i>	<i>Acanthaceae</i>
<i>Zizyphus jujuba</i>	<i>Rhamnaceae</i>
<i>Sesamum indicum</i>	<i>Pedaliaceae</i>
<i>Dalbergia sissoo</i>	<i>Fabaceae</i>
<i>Haldina cordifolia</i>	<i>Rubiaceae</i>
<i>Morinda citrifolia</i>	<i>Rubiaceae</i>
<i>Neanotis lancifolia</i>	<i>Rubiaceae</i>
<i>Hibiscus hirtus</i> var. <i>inarticulatus</i>	<i>Malvaceae</i>
<i>Schlerhria oleosa</i>	<i>Malvaceae</i>
<i>Firmiana colorata</i>	<i>Malvaceae</i>
<i>Trema orientalis</i>	<i>Urticaceae</i>
<i>Wrightia tinctora</i>	<i>Apocynaceae</i>
<i>Euphorbia sp.</i>	<i>Euphorbiaceae</i>
<i>Rotala sp.</i>	<i>Lythraceae</i>
<i>Chlorophytum tuberosum</i>	<i>Asparagaceae</i>
<i>Kyllingia nemoralis</i>	<i>Cyperaceae</i>
<i>Lantana camara</i>	<i>Verbenaceae</i>

Photo Plates:



Students in field



During the trail



Mr. Hensal Rodrigues explaining the pollination mechanism of *Ceropegia vincifolia*



Students amidst kanheri and its waterfalls



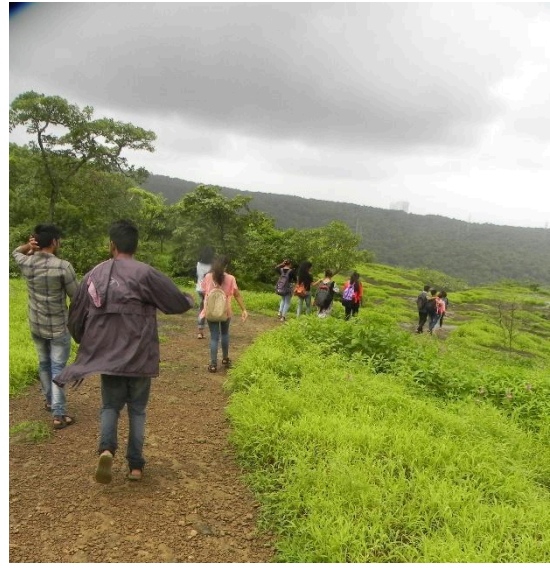
Explanation in field



***Utricularia striatula* growing on rocks an insectivorous plant**



Student photographing *begonia crenata*



Kanheri plateau trail



***Ceropegia attenuata*, endemic to western
ghats**



***Ariopsis peltata*, endemic**



***Utricularia* flowers**

Long Excursion – Pachmari_Kanha excursion (2019-20)

On field dates	20 th -23 rd February 2019
Venue	Pachmari, Kanha
Target students	TYBSc Botany, TYBSc BZ & TYBSc Zoology
Professor as field guide	Mr. Hensal Rodrigues (for botanical knowledge)
Accompanied professors	Mr. Johnson Varkey, Ms. Sonal Salvi, Ms. Pradnya Salvankar

Minutes of the Trip:

- *Drosera burmannii*, *Utricularia* sp., were the highlights of the trip. These are insectivorous plants growing in Nitrogen deficient environments, as compared to other regions this sanctuary had a dense population of *Drosera burmannii* flourishing on and above the rocks. alongside these a rather common yet vivid insectivorous plant also was sited, *Drosera indica*.
- Plants were sold at the Temple including *Crinum* bulbs, *Amorphophallus* corm, *Pinus* female cone, at different prices and are used medicinally for various purposes. People from the entire area come to worship this temple and
- Horticulture aspects were explained including, Hedge, edge, lawn, Focal Point through live explanation at the garden (Observe image - Garden Landscape).
- Another important noticeable was the flowering of Bamboo which is very rare to observe. Students were privileged to observe it in mass flowering enroute Kanha safari.
- A Good quantity of Bryophytes were observed, with reproductive structures like gemma cups which was news to the students as, learning its was a live experience of learning such aspects which were only taught in class syllabus

- More than 100 plant species were documented throughout the journey.

Plant list of the excursion:

Sr. No.	Botanical Name	Family
1	<i>Coolebrookea oppositifolia</i>	<i>Lamiaceae</i>
2	<i>Dicleptiera sp.</i>	<i>Acanthaceae</i>
3	<i>Cardamine scutata</i>	<i>Brassicaceae</i>
4	<i>Ficus benghalensis</i>	<i>Moraceae</i>
5	<i>Ficus hispida</i>	<i>Moraceae</i>
6	<i>Ficus relegiosa</i>	<i>Moraceae</i>
7	<i>Brugmansia sp.</i>	<i>Solanaceae</i>
8	<i>Datura metel</i>	<i>Solanaceae</i>
9	<i>Tectona grandis</i>	<i>Verbenaceae</i>
10	<i>Shorea robusta</i>	
11	<i>Bambusa sp.</i>	<i>Poaceae</i>
12	<i>Lindernia ciliata</i>	<i>Linderniaceae</i>
13	<i>Heliotropium indicum</i>	<i>Boraginaceae</i>
14	<i>Solanum xanthocarpum</i>	<i>Solanaceae</i>
15	<i>Plumbago sp.</i>	<i>Plumbaginaceae</i>
16	<i>Lepidagathis cuspidata</i>	<i>Acanthaceae</i>
17	<i>Crinum sp.</i>	<i>Amaryllidaceae</i>
18	<i>Eleocarpus sp.</i>	<i>Eleocarpaceae</i>
19	<i>Cycas sp.</i>	<i>Cycadaceae</i>
20	<i>Calotropis gigantea</i>	<i>Apocynaceae</i>
21	<i>Argemone Mexicana</i>	<i>Papaveraceae</i>
22	<i>Thuja orientalis</i>	
23	<i>Papaver sp.</i>	<i>Papaveraceae</i>
24	<i>Delphenium sp.</i>	
25	<i>Dahlia sp.</i>	<i>Asteraceae</i>
26	<i>Asclepias curaasavica</i>	<i>Apocynaceae</i>
27	<i>Opuntia sp.</i>	<i>Cactaceae</i>
28	<i>Brassica napus</i>	<i>Brassicaceae</i>
29	<i>Livinstonia chinensis</i>	<i>Arecaceae</i>
30	<i>Coleus blumei</i>	
31	<i>Impatiens pulcherrima</i>	<i>Balsaminaceae</i>
32	<i>Catharanthes roseus</i>	<i>Apocynaceae</i>
33	<i>Drosera burmannii</i>	<i>Droseraceae</i>
34	<i>Utricularia sp.</i>	<i>Lentibulariaceae</i>
35	<i>Pteris sp.</i>	<i>Pteridaceae</i>
36	<i>Nephrolepis exaltata</i>	
37	<i>Pogostemon benghalensis</i>	<i>Lamiaceae</i>
38	<i>Sonchus sp.</i>	<i>Asteraceae</i>
39	<i>Holksmodia sp.</i>	<i>Phyllanthaceae</i>
40	<i>Riccia sp.</i>	<i>Ricciaceae</i>
41	<i>Targonia sp.</i>	<i>Targoniaceae</i>
42	<i>Sphaeranthus indicus</i>	<i>Asteraceae</i>
43	<i>Spilanthus acmella</i>	<i>Asteraceae</i>
44	<i>Triticum sativum</i>	<i>Poaceae</i>
45	<i>Rotala sp.</i>	<i>Lythraceae</i>
46	<i>Butea monosperma</i>	<i>Fabaceae</i>

47	<i>Solanum torvum</i>	<i>Solanaceae</i>
48	<i>Mimosa pudica</i>	<i>Fabaceae</i>
49	<i>Acampe paremorsa</i>	<i>Orchidaceae</i>
50	<i>Lablab purpurea</i>	<i>Fabaceae</i>
51	<i>Terminalia arjuna</i>	<i>Combretaceae</i>
52	<i>Lannea coromandelica</i>	
53	<i>Bryophyllum pinnatum</i>	<i>Crassulaceae</i>
54	<i>Sida sp.</i>	<i>Malvaceae</i>
55	<i>Triumfetta rhomboidea</i>	<i>Malvaceae</i>
56	<i>Mangifera indica</i>	<i>Anacardiaceae</i>
57	<i>Crustose lichen</i>	
58	<i>Zinnia sp.</i>	<i>Asteraceae</i>
59	<i>Salvia sp.</i>	<i>Lamiaceae</i>
60	<i>Salvina sp.</i>	
61	<i>Nymphaea sp.</i>	<i>Nymphaeaceae</i>
62	<i>Agave sp.</i>	<i>Agavaceae</i>
63	<i>Jasminum sp.</i>	<i>Oleaceae</i>
64	<i>Roystonea regia</i>	<i>Arecaceae</i>
65	<i>Phoenix sp.</i>	<i>Arecaceae</i>
66	<i>Pinus roxburghii</i>	<i>Pinaceae</i>
67	<i>Trapaeolum majus</i>	
68	<i>Jacaranda mimosifolia</i>	
69	<i>Bauhinia walhii</i>	<i>Fabaceae</i>
70	<i>Hymenocallis speciosa</i>	<i>Amaryllidaceae</i>
71	<i>Musa x paradisiaca</i>	<i>Musaceae</i>
72	<i>Crinum asiaticum</i>	<i>Amaryllidaceae</i>
73	<i>Mallotus philipenes</i>	<i>Phyllanthaceae</i>
74	<i>Bougainvillea glabra</i>	<i>Nyctaginaceae</i>
75	<i>Anagalis nervosa</i>	
76	<i>Mazus pumilla</i>	
77	<i>Asteracantha longifolia</i>	
78	<i>Eclipta prostrata</i>	<i>Asteraceae</i>
79	<i>Eragrostis</i>	<i>Poaceae</i>
80	<i>Eucalyptus globulus</i>	<i>Myrtaceae</i>
81	<i>Ceiba pentandra</i>	<i>Malvaceae</i>
82	<i>Bombax ceiba</i>	<i>Malvaceae</i>
83	<i>Araucaria columnaris</i>	<i>Araucariaceae</i>
84	<i>Casaurina equisetifolia</i>	<i>Casurinaceae</i>
85	<i>Amorphophallus sp.</i>	<i>Araceae</i>
86	<i>Orchidaceae</i>	
87	<i>Belpharis asperimma</i>	<i>Acanthaceae</i>
88	<i>Barleria prionotis</i>	<i>Acanthaceae</i>
89	<i>Duranta plumeri</i>	<i>Verbenaceae</i>
90	<i>Sterculia sp.</i>	<i>Malvaceae</i>
91	<i>Boehmeria sp.</i>	<i>Urticaceae</i>
92	<i>Acacia auriculiformis</i>	<i>Fabaceae</i>
93	<i>Polygonum glabrum</i>	<i>Polygonaceae</i>
94	<i>Indigofera linnaei</i>	<i>Fabaceae</i>
95	<i>Parthenium sp.</i>	<i>Asteraceae</i>
96	<i>Acacia nilotica</i>	<i>Fabaceae</i>
97	<i>Achyranthes aspera</i>	<i>Amaranthaceae</i>
98	<i>Alternanthera sessilis</i>	<i>Amaranthaceae</i>

99	<i>Justicia geradeussa</i>	<i>Acanthaceae</i>
100	<i>Alstonia scholaris</i>	<i>Apocynaceae</i>
101	<i>Alacea sp.</i>	

Photo Plates:



Livistonia chinensis



Coolebrookea oppositifolia
(squirrels' tail)



Amorphophallus sp.



Pinus sp.



Lichen



Drosera brumannii &
Utricularia sp.



Gemma cup of *Ricciaceae* member



Pogostemon benghalensis



Garden Landscape



Group photo – at Kanha



Students enroute to temple to study plant dwelling in rock crevices and plant-based products



Mr. Hensal Rodrigues giving the students insight on horticulture and gardening



Students taking field notes on the plants studied



Students taking field notes on the plants studied

Short excursion - Gorai & VIVA college wetland

On field dates	October 2019
Venue	Gorai Khadi, VIVA wetland
Target students	TYBSc Botany & TYBSc BZ
Accompanied professors	Mr. Johnson Varkey, Mr. Kiran Chakral

Minutes of the excursion

Gorai is a place known for its eastern Indian community and the mangroves it upholds. the students of TY batch 2019-20 were taken to this place to make aware about the importance of mangrove forest and how it holds a vast diversity of ecosystems intact along with keeping our lands safe from floods.

The students were made acquainted with many true mangrove plants and how they have adapted to saline habitat with modifications in certain characteristics. Mangrove associates and invaders were also studied during this visit. plants related to families of Angiosperm syllabus were explained on field to give the students a live experience of these families and their habitats.

Students were also shown Gorai as the type locality of two plants which were recently described namely, *Cistanche tubulosa* subsp. *palustris* S. Dutta, H. Rodrigues & K. Chakral, and *Avicennia marina* var. *acutissima* f. *pumila* S. Dutta, K. Chakral, & H. Rodrigues. The importance of Type locality in botany and taxonomy were explained to the students.

VIVA college has a beautiful wetland behind it, wetlands hold the excess of water which floods the mainland during monsoon and this becomes important to know about. Hence the students of TY were taken to the wetland to make them aware of the wetland for our

community and how the plants growing in such wetlands are important to keep the wetland alive.

A walk around the periphery of the wetland was conducted and students were shown many wetland dwellers which inhabit these areas. Students were exposed to various aspects of plant morphology with examples from the wetland flora.

about 40 species of plants were studied during this visit

Enumeration of plants found at wetland and Gorai

Botanical name	Family
<i>Cleome rutidosperma</i>	<i>Cleomaceae</i>
<i>Cleome viscosa</i>	<i>Cleomaceae</i>
<i>Pennisetum glaucum</i>	<i>Poaceae</i>
<i>Sorghum helapense</i>	<i>Poaceae</i>
<i>Hyptis suaveolens</i>	<i>Lamiaceae</i>
<i>Tridax procumbens</i>	<i>Asteraceae</i>
<i>Physalis minima</i>	<i>Solanaceae</i>
<i>Tichodesma indicum</i>	<i>Boraginaceae</i>
<i>Alternanthera sessilis</i>	<i>Amaranthaceae</i>
<i>Aeschynemone Americana</i>	<i>Fabaceae</i>
<i>Lantana camara</i>	<i>Verbenaceae</i>
<i>Caryatia trifolia</i>	<i>Vitaceae</i>
<i>Urena sinuata</i>	<i>Malvaceae</i>
<i>Pongamia pinnata</i>	<i>Fabaceae</i>
<i>Spirodila</i>	
<i>Passiflora foetida</i>	<i>Passifloraceae</i>
<i>Lucaena leucosocephala</i>	<i>Fabaceae</i>
<i>Coccinia grandis</i>	<i>Cucurbitaceae</i>
<i>Muntingia calabura</i>	<i>Muntingiaceae</i>
<i>Ageratum conyzoides</i>	<i>Asteraceae</i>
<i>Cucumis sp.</i>	<i>Cucurbitaceae</i>
<i>Mukia maderaspatna</i>	<i>Malvaceae</i>
<i>Triumpfetta rhomboidea</i>	<i>Malvaceae</i>

<i>Celosia argentea</i>	<i>Amaranthaceae</i>
<i>Malachra capitata</i>	<i>Malvaceae</i>
<i>Abelmoschus Manihot</i>	<i>Malvaceae</i>
<i>Eclipta prostrata</i>	<i>Asteraceae</i>
<i>Blumea</i>	<i>Asteraceae</i>
<i>Sopubia delphinifolia</i>	<i>Scrophulariaceae</i>

Photo Plate of the Gorai and wetland visit:



Mr. Hensal Rodrigues explaining the importance of mangroves at gorai



Group photo - Gorai



Gloriosa superba



Crinum asiaticum



Dioscorea bulbifera



Pentatopsis capensis



Group photo - Wetland



Explaining *Passiflora foetida* morphology



On field explanation of the wetland flora



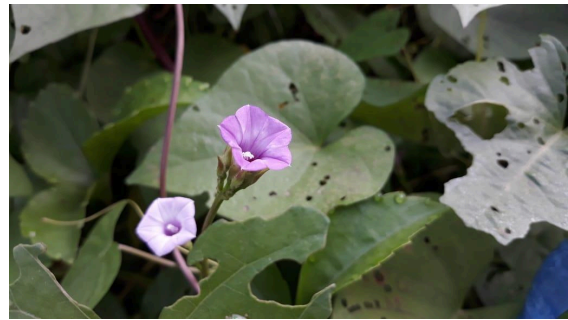
Passiflora foetida



Malachra capitata



Stilt roots of Sorghum



Ipomoea sp.

Herbarium making & College Herbarium establishment – VIVA college Herbarium (2019-20)

On field dates	2019
Venue	VIVA college
Target students	TYBSc Botany & TYBSc BZ, SYBZ, SYCB

As part of the curriculum students of SY have herbarium making, dept. of Botany has taken a leap ahead to instil in students the importance of Plant taxonomy by making them stitch herbarium sheets on their own.

Students were told to collect a plant from their respective locality and were explained the entire protocol of plant collection to pressing along with importance of herbarium and type specimens

students were also excited in up taking such practical based learning of herbarium and enthusiastically stitched their herbarium and submitted them.

Furthermore, we have started to establish a Departmental herbarium for the benefit of students and the people in and around Vasai - Virar who deal with plant studies and research and who have to go long distances to get their plants identified. On complete establishment of this herbaria the college and the students will benefit a lot.

currently under process we have about 300 prepared specimens and about 600 unstitched collected specimens from various areas namely from various parts of Maharashtra, specifically Mumbai Vasai - Virar, and also specimens from Himalayas

The herbarium holds two Isotypes of *Cistanche tubulosa* subsp. *palustris* S. Dutta, H. Rodrigues & K. Chakral, and *Avicennia marina* var. *acutissima* f. *pumila* S. Dutta, K. Chakral, & H. Rodrigues. which has been accepted internationally (ipni.org) which gives gravity to the taxonomic research conducted here.

Furthermore, the herbarium has also been mentioned on an international scale under the website ipni.org organised and maintained by the Harward university herbaria.



**SYBZ students stitching the herbariums
collected**



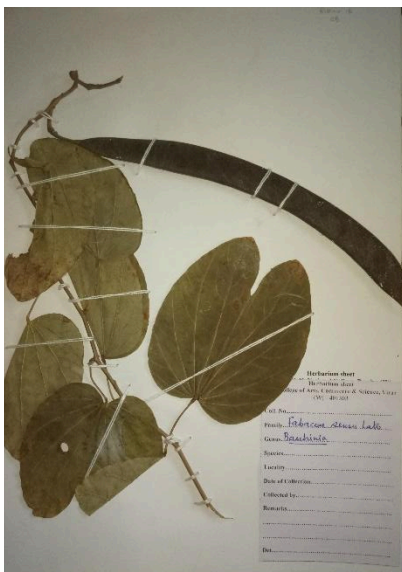
**SYCB students stitching herbariums
collected**



Stitched herbarium sheets



Stitched herbarium sheets



Herbarium sheet of *Bauhinia*



Herbarium sheet of *Barleria*



beta.ipni.org/n/77200378-

1



Family as entered in IPNI

Scrophulariaceae

Type Information

Collector Team

Suchandra Dutta, H. Rodrigues &
K. Chakral 180216

Locality

Mumbai, Gorai creek

Collection Date

Feb 2018

Type Herbaria

holotype BLAT

isotype BSI

isotype CAL

isotype Herb., R.D. & S.H.

National College (RDNCP),

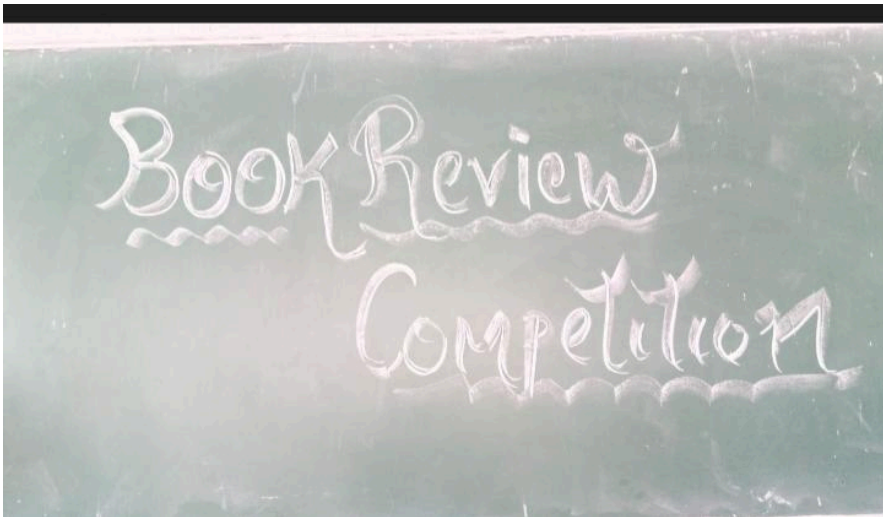
Mumbai



isotype Hewrb., VIVA College,

Mumbai

ipni.org – showing the citation of VIVA college herbarium

ACTIVITY REPORT

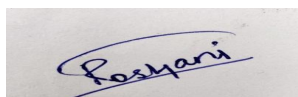
Name/ Title of the Programme: Book Review Competition (Advanced Learners)				
Date(DD/MM/YYYY): 11/09/2018		Total Participants / Beneficiaries (in figures) – Students: 47		
Time: 10 am to 10:45 am		Staff: 02		
Resource Person/ Chief Guest (If any or else NA): <ol style="list-style-type: none"> 1. Dr Archana Joshi and Prof Padmaja Joshi for English Book Review. 2. Ms Sayale Gore for Marathi Book review. 3. Prof Babli Jha for Hindi Book review. 				
Sr. No.	Name of the Resource Person/ Chief Guest	Affiliation	Mobile Number	Email ID (if available)
1.	Dr. Archana Joshi	Asst. Professor	-	Archana.joshi@vivacollege.org
2.	Prof. Padmaja Joshi	Asst. Professor	9970469464	Padmaja.joshi@vivacollege.org
3.	Ms. Sayali Gore	Asst. Professor	-	Sayali.gore@vivacollege.org
4	Prof. Babli Jha	Asst. Professor	9373133094	Babli.jha@vivacollege.org
Convener of Programme: Dr. Roshani Nagar Organisers: Prof. Vaikhari Patil				
Kindly Paste (2 –4 photographs) with proper details:				
Photos of Events				

	
	
Brief report of programme (in 250 -300 words)	<p>Book review Competition was organised by Department of B com (Banking and Insurance) on Tuesday, 11th September, 2018 in Room no 405 at 10:00am to 10:45 am.</p> <p>The professor's incharge were Dr. Roshani Nagar and Prof Vaikhari Patil. 47 students participated for the competition.</p> <p>The Judges for the event were:</p> <ol style="list-style-type: none"> 1. Dr Archana Joshi and Prof Padmaja Joshi for English Book Review. 2. Ms Sayale Gore for Marathi Book review. 3. Prof Babli Jha for Hindi Book review.

	<p>Rules for the competition were as follows.</p> <ol style="list-style-type: none"> 1. No syllabus related book. 2. The review should not be more than 400 words. 3. The review can be written in English, Marathi and Hindi. 4. The time duration is 45 minutes. 5. The review can be done from the author's point of view. 6. No books will be allowed to carry on the day of competition. <p>The prizes are categorised into 3 categories based on language, perfection and presentation.</p> <ul style="list-style-type: none"> ● English Book Review. <p>1st Prize -- Mayuri Rajesh Lashkar- SYBSC Computer Science 2nd Prize -- Abhishek Rohit Vyas – SYBCOM. 3rd Prize -- Sneha Pawar- TYBBI.</p> <p>Consolation winners.</p> <p>Aniket Raju Kewat –TYBCOM.</p> <p>Jyoti Maurya – TYBBI.</p> ● Marathi Book review. <p>1st Prize -- Deepali Mulam – TYBAF. 2nd Prize—Sanjana Karvir --SYBMM. 3rd Prize – Mansi Kini --.TYBBI.</p> <p>Consolation winners</p> <p>Harshali Mhatre – SYBCOM.</p> ● Hindi Book review <p>1st Prize -- Rashmi Dubey – TYBBI. 2nd Prize – Chetan Chauhan.—TYBAF. 3rd Prize – Yadav Dipali—SYBCOM.</p> 												
News Paper Cutting (if applicable/ or else NA)	NA												
Attendance Sheet (PDF format - student signature-in case of events conducted offline; student list with link of recording for events conducted Online)	<table border="1"> <tr> <td>Attendance</td><td></td></tr> <tr> <td>NAME OF STUDENT</td><td>CLASS</td></tr> <tr> <td>Mayuri Rajesh Lashkar</td><td>SYBSC</td></tr> <tr> <td>Sanika Dandekar</td><td>TY BBI</td></tr> <tr> <td>Ashwini Mhatre</td><td>SY BCOM</td></tr> <tr> <td>harshali Mhatre</td><td>SY BCOM</td></tr> </table>	Attendance		NAME OF STUDENT	CLASS	Mayuri Rajesh Lashkar	SYBSC	Sanika Dandekar	TY BBI	Ashwini Mhatre	SY BCOM	harshali Mhatre	SY BCOM
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	Jeet Roy	FY FMG
	toba Sheikh	TY BAF
	Azad Khan	FY BCOM
	Yadav Deepali Jagdish	SY BCOM
	Rajkumari Jagdish	SY BCOM
	Renu Gupta	TY BAF
	Jyoti Maurya	TY BBI
	Mamta barkar	TY BBI
	Chintan Parmar	TY BCOM
	Ruchita Shetty	FY BCOM
	Armaan Shaikh	FY BCOM
	Aariya Shaikh	FYBCOM
	Ruchi Dubey	TY BBI
	Priyanka Tiwari	TY BBI
	Rashmi Dubey	TY BBI
	Poonam Sahu	TY BBI
	Kajal Patil	TY BBI
	Sneha Pawar	TY BBI
	Anjali Pandey	TY BBI
	Sushma Singh	TY BBI
	Mayuri Shinde	TY BFM
	Amarjeet Rai	TY BFM
	Devki Tawde	FY BAF
	Chandan Rai	FY BAF
	Ritu Chaurasia	FY BAF
	Matrusha Sawant	SY BIM
	Priya Samant	SY BIM
	Keshar Jha	TY FMG
	Shushil Murugan	TY FMG
	Aniket Khanilkat	TY FMG
	Prathamesh Yaikar	TY FMG
	Pankaj Jaiswal	TY FMG
	Shahnawaz Shaikh	TY FMG
	Anuradha Rana	TY BCOM
	Nidhi Tambe	SY BCOM
	Sanjana Patel	SY BMM
	Abhaya Nair	SY BMM
	Radhika Mathur	SY BMM
	Ritfat Khan	SY BMM
	Shimona Patel	SY BMM
	Sanjana Karvir	SY BMM

	Atiya Shaikh	FY BAF
	Abhishek Rohit Vyas	SYBCOM.
	Sneha Pawar	TYBBI
	Aniket Raju Kewat	TYBCOM
	Jyoti Maurya	TYBBI
	Deepali Mulam	TYBAF
	Sanjana Karvir	SYBMM
	Mansi Kini	TYBBI
	Harshali Mhatre	SYBCOM
	Rashmi Dubey	TYBBI
	Chetan Chauhan	TYBAF
	Yadav Dipali	SYBCOM



**Signature of Convenor/s
HOD**



Signature of



**Vishnu Waman Thakur Charitable Trust's
Bhaskar Waman Thakur College of Science,
Yashvant Keshav Patil College of Commerce,
Vidhya Dayanand Patil College of Arts,**

VIVA College

(Affiliated to University of Mumbai) NAAC ACCREDITED WITH "B" GRADE (CGPA 2.69)

Shri Hitendra V. Thakur
President

Ms. Aparna P. Thakur
Secretary

Dr. V.S. Adigal
Principal

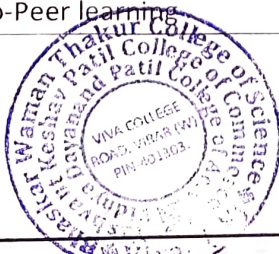
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Date :

Criterion II Pointer No. 2.3.1. Student Centric Methods

The Following Activities were conducted for Student Centric Methods

Sr. No.	Activity	Page No.
1	Experiential Learning	
1.1	Field Visit/Industrial visit/Study Tour	1 - 105
1.2	Internship	1-657
1.3	Activity Based Learning	1-102
2	Participative Learning	
2.1	Seminar/Webinar	1-149
2.2	Workshop	1-125
2.3	Group Discussion	1-3
2.4	Guest Lectures	1-27
2.5	Movie Screening	1-34
2.6	Case Studies	1-3
2.7	Short Film Making	1-7
2.8	Colloquiums	1-8
3	Self-Directed Learning	
3.1	E book learning, E- resource	https://vivacollege.org/Library.aspx#Donor https://vivacollege.org/Library.aspx#qpaper
3.2	Individual /Group /YouTube /Music Videos	1
3.3	PowerPoint Presentations	1-26
3.4	Virtual Lab	1-6
3.5	Student Published Article/Paper & Peer-to-Peer learning	1-33



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**Vishnu Waman Thakur Charitable Trust's
Bhaskar Waman Thakur College of Science,
Yashvant Keshav Patil College of Commerce,
Vidhya Dayanand Patil College of Arts,**

VIVA College

(Affiliated to University of Mumbai) NAAC ACCREDITED WITH "B" GRADE (CGPA 2.69)

Shri Hitendra V. Thakur
President

Ms. Aparna P. Thakur
Secretary

Dr. V.S. Adigal
Principal

Ref. No. :

Date :

4	Problem-Solving Learning	
4.1	Avishkar	1-386
4.2	Symposium	1-47
4.3	Remedial Lectures	1-105
5	ICT-Tools for Teaching- Learning	
5.1	ICT Tools	1-44
5.2	List of e- Learning resources	https://vivacollege.org/Library.aspx#qpaper
5.3	List of Softwares	G-Suite, MS- Office etc.
5.4	List of ICT equipments	Computers, Servers, Laptops, E-switches, Web Cam, Projectors etc.
5.5	Social Media Platforms WhatsApp Groups, Telegram Channel	YES

I, the undersigned, would like to certify and endorse that above mentioned Page No. of Criterion II Pointer No. 2.3.1. Student Centric Methods is true to my knowledge.



Principal

Dr. V. S. Adigal

Principal

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