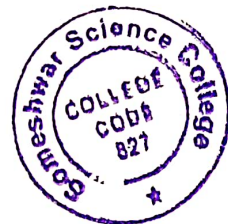


**Criterion No.1
Curricular
Aspects**

(Academic Year 2023-24)

**1.3.3 Percentage of Students Undertaking
Project Work/Field work/Internship**

(Data for the 2023-2024 Completed Year)



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Shri Someshwar Shikshan Prasarak Mandal's
SOMESHWAR SCIENCE COLLEGE

Someshwarnagar, Tel. Baramati, Dist: Pune (Pin: 412306) Maharashtra, India

Govt. Rag. No. N.G.C. 2007 (189/07) Mashi-3, Dt. 2 July 2007 ID No. PU/PN/S/284/20	College Code 827	University Appvl. No.
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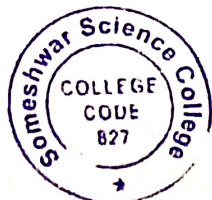
(Affiliated to Savitribai Phule Pune University, Pune) Estd : 2007

Curricular Aspects

(Last Academic Year 2023-2024)

**1.3.2 Percentage of students undertaking project work/field work/internship.
(Data for the latest Completed academic Year 2023-2024)**

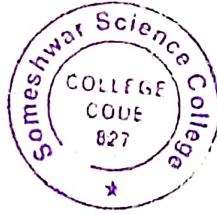
Sr.No	Name of the Department	Project Work/Field Work/Internship	Number of students	Place of Work Duration	Supporting Document	Course Name
1.	Microbiology	field Visit	19	Someshwar Sugar Factory Someshwar Tal-Baramati Pune, Agharkar Research Institute Sortewadi Tal-Baramati Pune & Live stock Development officer VD Shendakarwad Tal-Baramati Dist-Pune (6 hrs.)	1) Syllabus Copy 2) Permission letter 3) Student list 4) Sample Photograph 5) Certificate 6) Veterinary Survey Attendance 7) Consent Letter 8) Report of Field Visit 9) Students Report Sample	T.Y.B.Sc & S.Y.B.Sc
2	Electronics	field Visit	51	Someshwar Sugar Factory Someshwar Tal-Baramati Pune	1) Syllabus Copy 2) Permission letter 3) Student list 4) Sample Photograph 5) Certificate 6) Project Paper	S.Y.B.Sc Computer Science
3.	Botany and	field Visit	25	Department of	1) Syllabus	S.Y.B.Sc



(Signature)
Principal

Someshwar Science College, Someshwarnagar

				Phule Krushi Vedyapeeth Rahuri Pune	2) Permission letter 3) Student list 4) Sample Photograph 5) Report	
4.	Computer Science	ProjectWork	10	Someshwar Science College Tal-Baramati Pune (Six Month)	1) Syllabus Copy 2) Student list 3) Sample Project & Certificate	T.Y.B.Sc



[Handwritten Signature]

Principal

Someshwar Science College, Someshwarnagar

Savitribai Phule Pune University

(Formerly University of Pune)

Three Year B.Sc. Degree Program in Microbiology

(Faculty of Science & Technology)

S. Y. B. Sc. (Microbiology)

Choice Based Credit System Syllabus

2019 Pattern

S.Y. B. Sc. Microbiology Syllabus (Semester IV)

MB-243: Practical Course based on

MB-241: Bacterial Genetics and MB-242: Air, Water and Soil Microbiology

[2 Credits: 78 Lectures]

[1 credit=15hrs x 130 mins = 1950 mins/50 mins=39 lectures]

78 L distributed as 60 L for performing practicals and 18 L for internal evaluation

12 Practical x 5 lectures = 60 Lectures

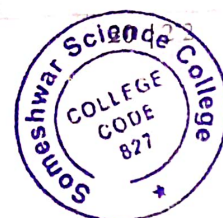
Semester IV: MB-243: Practical course based on MB 241 and MB 242		
Expt. No.	Topics	No. of Practical
1.	Staining Techniques: i. Flagella Staining ii. Metachromatic Granules	2
2.	Air sampling using an air sampler, calculation of air flora from different locations with the knowledge of respective standards of bacterial and fungal counts.	1
3.	Air Flora: a. Diversity determination. b. Simpson index and settling velocity determination	1
4.	Bacteriological tests for potability of water a. MPN, Confirmed and Completed test. b. Membrane filter technique (Demonstration)	3
5.	i. UV- survival curve ii. Induction of mutation by using physical mutagen (e.g. U V rays) iii. Isolation of auxotrophic mutants by Replica Plate Technique	2
6.	Enrichment, Isolation, Preparation and Application of Bioinoculants i. a) <i>Azotobacter</i> species and b) <i>Rhizobium</i> species Or ii. Blue Green Algae (Cyanobacteria)	2
7.	Visit to Industry/ Drinking Water treatment plant	1
	Total	12

Savitribai Phule Pune University (SPPU), Pune



Principal

Someshwar Science College, Someshwarnagar





॥ Tamaso ma Jyotirgamaya ॥

Phone (02112) 283187, 282728

Shri Someshwar Shikshan Prasarak Mandal's

SOMESHWAR VIDNYAN MAHAVIDYALAYA

Someshwarnagar, Tal: Baramati, Dist: Pune Pin - 412 306 , Maharashtra, India

(Affiliated to Savitribai Phule Pune University, Pune)

Estd. : 2007

Govt. Reg. No. N.G.C.2007(189/07) Mashi-3, Dt. 2 July 2007

College Code - 827

University Appvl. No. IDNo. PU/PN/S/284/2007

Ref. No. S.V.M. / 181 / 2023 - 24

Date : 19 / 03 / 2024

To,

The Director
Agharkar Research Institute
GG Agarkar Road, Pune 411 004,

Cc to

.....
Nira-Baramati Rd, Sadobachiwadi,
Agharkar Research Institute Sortewadi,
Maharashtra 412306

Subject: Request letter for educational visit of T.Y.B.Sc (Microbiology) and S.Y.B.Sc (Microbiology) students

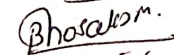
Respected Sir,

Apart from academic lectures, Research Institute visit is part of Education. In this regard, T.Y.B.Sc (Microbiology) students and S.Y.B.Sc (Microbiology) students of Someshwar Vidnyan Mahavidyalaya, Someshwarnagar, Pune 412306, visit various institute every year. In this connection, 6 students of T.Y.B.Sc and 15 students of S.Y.B.Sc along with 2 faculty Members intend to visit your Research Project, Sadobachiwadi on 22nd March 2024. We believe that your research staff will give our students relevant knowledge during this visit.

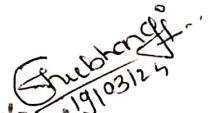
It is requested that necessary arrangements for the subject visit may please be made, and confirmation of the same may please be communicated to us as soon as possible.


Teacher In-Charge

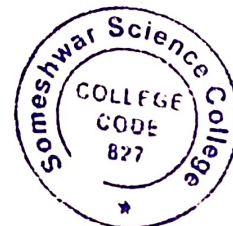
Mrs. Bhandwalkar M.S. 

Ms. Bhosale J.M. 

Sincerely,


Head,
Department of Microbiology


Principal
Someshwar Science College, Someshwarnagar



Date: 2/12/2021

To,

The officer,

Dr. Roopali Namdeo Jadhav (Registered Number: 6612)

Livestock Development Officer Group-1

VD Shendkarwadi, Tal. Baramati, Dist. Pune

Subject: Requesting to guide and frame students certificate course for UG Microbiology students related to Veterinary Microbiology

Dear Madam,

With reference to above subject, Microbiology Department of Someshwar Science College, Someshwarnagar, is planning to design and conduct a certificate course under your guidance.

We are expecting veterinary Microbiology related practical work and related theory covered in the course. We will be very grateful to you if you are ready to cooperate and guide us by giving your valuable time.

Thanking you.

for
① Khirnisagar

HOD

Microbiology Department
(Prof. Shubhangi Kamble)

Jadhav

Livestock Development Officer Gr-1

VD. Shendkarwadi Tal. Baramati Dist. Pune Someshwar Science College, Someshwarnagar

principal

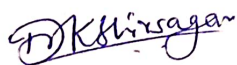
Principal

Notice

All students of T.Y.B.Sc Microbiology are hereby informed that Department of Microbiology is conducting 'A certificate course in Veterinary Microbiology' from 6 /12/2021 to 16/12/2021. The practical related work will be conducted on site at different villages (Time 11.00 a.m. to 2.00 p.m.) The course includes surveillance of LSD of cattle, and surveillance of FMD (Foot and Mouth disease of cattle) .Vehicle arrangement will be done by college from and to college campus. After 2 .00 p.m. theory will be conducted in the college. Instructions related to this will be updated time to time on class Whatsapp group. This is course is compulsory for all the students of T.Y.Microbiology.

Following is the visiting site of villages schedule day wise.

1. Monday- Karanje
2. Tuesday -Magarwadi
3. Wednesday-Magarwadi
4. Thursday-Sortewadi
5. Friday-Shendkarwadi



Coordinator

(S. BHANDWALKAR
M.S.)

for 

HOD

(Prof. Shubhangi Kamble)



Principal

Principal

Someshwar Science College, Someshwarnagar



॥ Tamaso ma Jyotirgamaya ॥

Phone (02112) 283187, 282728

Shri Someshwar Shikshan Prasarak Mandal's

SOMESHWAR VIDNYAN MAHAVIDYALAYA

Someshwarnagar, Tal: Baramati, Dist: Pune Pin - 412 306 , Maharashtra, India
(Affiliated to Savitribai Phule Pune University, Pune)

Estd. : 2007

Govt. Reg. No. N.G.C.2007(189/07) Mashi-3, Dt. 2 July 2007

College Code - 827

University Appvl. No. IDNo. PU/PN/S/284/2007

Ref. No. S.V.M. / 182/2023-24

Date 20/03/2024

To,

The Managing Director,

Someshwar Sugar Factory,

Someshwarnagar.

Subject: Application for industrial visit...

Respected Sir,

With reference to above subject , writing this letter to request permission to visit Someshwar Sugar Factory , Someshwarnagar along with the total **21** students and 2 faculty members along with 15 students from **S. Y. B.Sc. and 06** students from **T.Y.B.Sc. Microbiology** class of our college. Along with education, extracurricular activities, and industrial visit are also necessary for the growth of a student's mental capability. Industrial visit includes ethanol production, Microbiology laboratory, water treatment plant, etc.

We will be much obliged if you grant us permission to arrange this visit. Hope for your cooperation in this regard.

Thank you.

Shubhangi
Head,
20/03/24
Department of Microbiology



Yours sincerely
Shri.
20/03/2024

Principal
Someshwar Science College, Someshwarnagar

21/3/2024
श्री सोमेश्वर सह. साखर कारखाना लि.
सोमेश्वर नगर-४१२३०६ ता. वारानती (पुणे)

Website : www.someshwarsciencecollege.org

Email : svm.principal@yahoo.com

Shri Someshwar Shikshan Prasarak Mandal's
Someshwar Vidnyan Mahavidyalaya, Someshwarnagar
S.Y.B.Sc. Microbiology Students Attendance sheet.

Visit: Agharkar Research Centre, Hol Tal: Baramati, Dist: Pune

Date: 22/03/2024

Sr. No.	Roll No.	Name of the student	Sign in	Sign out
1	2001	Achpal Prajkta Rajendra	<u>Achpal</u>	<u>Achpal</u>
2	2002	Pawar Sakshi Hanumant	<u>Pawar</u>	<u>Pawar</u>
3	2004	Nigade Preeti Dattatray	<u>P Nigade</u>	<u>P Nigade</u>
4	2006	Jadhav Sanika Popat	<u>Jadhav</u>	<u>Jadhav</u>
5	2007	Bankar Priya Pravin	<u>P.P. Bankar</u>	<u>P.P. Bankar</u>
6	2008	Gaikwad Smaruddhi Sunil	<u>S.S. Gaikwad</u>	<u>S.S. Gaikwad</u>
7	2016	Shinde Kunal Dattatray	<u>Shinde</u>	<u>Shinde</u>
8	2017	Solwande Prajwal Bhaskar	<u>Solwande</u>	<u>Solwande</u>
9	2018	Pingale Kalyani Baburao	<u>K.B. Pingale</u>	<u>K.B. Pingale</u>
10	2019	Jagtap Shivani Anil	<u>S.A. Jagtap</u>	<u>S.A. Jagtap</u>
11	2025	Nikam Vedant Tanaji	<u>Nikam</u>	<u>Nikam</u>
12	2026	Sutar Priyanka Gurudatt	<u>P. Sutar</u>	<u>P. Sutar</u>
13		Thomas Keziah	AB	AB
14	2039	Bhujbal Sakshi Dhanaji	<u>Bhujbal</u>	<u>Bhujbal</u>

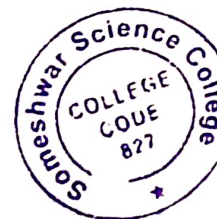
Total number of students = 13

Batch in-charge Prof. J.M.

Shubhangi Kamble
Head,
Department of Microbiology

Asst. Prof. Bhosale J.M.

Asst. Prof. Shubhangi Kamble



Shri Someshwar Shikshan Prasarak Mandal's
Someshwar Vidnyan Mahavidyalaya, Someshwarnagar
T.Y.B.Sc. Microbiology Students Attendance sheet

Visit: Someshwar Sugar Factory, Someshwarnagar Tal: Baramati, Dist : Pune

Date: 23/03/2024

Sr. No.	Roll No.	Name of the students	Sign out	Sign in
1	3029	Karve Dhanashree Satish	<u>Dskarne</u>	<u>Dskarne</u>
2	3030	Gavade Pradnya Sadashiv	<u>Pradnya</u>	<u>Pradnya</u>
3	3034	Pawar Ankita Vijaykumar	<u>APawar</u>	<u>APawar</u>
4	3041	Gaikwad Nikita Umesh	<u>N.G.</u>	<u>N.G.</u>
5	3044	Miraje Asmita Suresh	<u>Asm</u>	<u>Asm</u>
6	3045	Rajput Rutuja Kamlesh	<u>AB</u>	<u>AB</u>

Total number of students= 05

Shubhangi

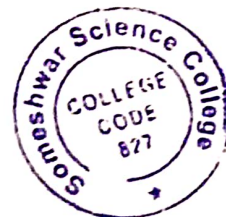
Batch in-charge.

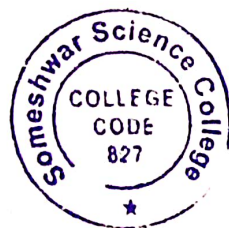
Asst. Prof. Shubhangi Kamble

Shubhangi

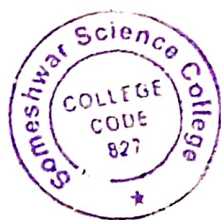
HOD,
Department of Microbiology

Asst. Prof. Shubhangi Kamble





[Handwritten Signature]
 Principal
 Someshwar Science College, Someshwar Nagar



[Handwritten Signature]

Principal
Someshwar Science College, Someshwarnagar



CERTIFICATE

Shri Someshwar Shikshan Prasarak Mandal's
SOMESHWAR SCIENCE COLLEGE, SOMESHWARNAGAR




Department of Microbiology
Organized


'A certificate course in Veterinary Microbiology'


This is to certify that

Darekar Sayali S. from T. Y. B.Sc (Microbiology)

Has actively participated and successfully completed 'A Certificate course in Veterinary Microbiology' and societal survey Conducted by the Department of Microbiology of Someshwar Science College, during November 6-16, 2021.


Prof. Bhandwalkar M.S.
Coordinator


Prof. Bhandwalkar M.S.
Acting Head of Department


Prof. Bansode D.W.
Principal

veterinary survey attendance

6/12

7/12

8/12

9/12

10/12

	6/12	7/12	8/12	9/12	10/12
① Hulge Rakhi Satish	P	P	P	P	A
② Raut Shivani Rohidas.	A	P	A	P	P
③ Kerkade Ashwini Dada	A	P	P	P	P
④ Bhosale Nikita Dnyaneshwar	P	P	P	P	P
⑤ Holkar Sayali Sharad	P	P	P	P	P
⑥ Jagtap Vaibhavi Santosh	P	P	P	P	P
⑦ Jagtap Vaishnavi Geyanand	A	A	A	P	P.
⑧ Dhumal Vaishnavi Dayanand	P	P	P	P	P
⑨ Megar Nayan Sharad	P	P	P	P	P
⑩ Jedhe Sakshi Jayawant	P	P	P	P	P
⑪ Lakade Rutuja Dattatray	P	P	P	P	P
⑫ Darekar Priti Sandip	P	P	P	P	P
⑬ Darekar Sayali Sandip	P	P	P	P	P
⑭ Wabale Gaurav	P	A	A	A	A
⑮ Sonawane Samrudhi	P	P	P	P	P
⑯ Patale Pooja Manik	P	P	P	P	P



Sr. No.	Type of Animal	Tag No.	Age of Animal	Sr. No.	LSD	EMD	Mastitis	Anchor Card No.
1)	Goat	10343350908	3	1)	—	NO	—	6522 3027 2515
2)	Goat	T	2	2)	—	NO	—	3380 7733 1102
3)	Goat	103433509232	7/8	3)	—	Yes	—	7272 5711 9009
		103333509122						
		103433509247						
4)	Goat	—	4	4)	—	NO	—	6213 7330 7473
5)	Goat	103322896731	6	5)	—	NO	—	2936 7511 2333
		103322896711						
6)	Goat	103322897052	4	6)	Yes	Yes	—	5175 5562 1455
		103322897084	6					
		103322897073	7					
7)	Goat	103322896651	4	7)	—	NO	—	0599 49 3065 7710 2779 583
		103322896720						
8)	Goat	103322896888	2/4	8)	—	NO	—	
		103322896260						
		103322897051						
		103322896800						
		103322896968						
9)	Goat	103324070412	4/5	9)	—	NO	—	4421 2026 7070
		103324070467						
		103324070401						
		103324070115						
		103324070491						
		103324069760						
		103324070230						
		103324070343						
		103324070194						
		10332407376						
		103324070104						
		103324070126						

classmate

Date

Shri Someshwar Shikshan Prasarak Mandal's
Someshwar Vidnyan Mahavidyalaya, Someshwarnagar

Parent Consent letter for Industrial visit / Research centre

Date: 22-3-2024

Name of the student: Karve Dhanaghi Satish

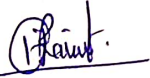
Class: T.Y.B.Sc.

Roll no: 3029

I am the Parent of Karve Dhanaghi Satish

do hereby give my consent to my son/ daughter for industrial visit/ research centre to

place:, on day : ^{Friday} ~~22-3-2024~~, date : 22 / 03 / 2024 . During journey,
and visit I assure that he /she will follow the rules and regulations stipulated by the college. I understand
that the college authorities will not be held responsible for any incidents occur during the visit.



Signature of the parent :

Name of the parent:

Contact no:



Shri Someshwar Shikshan Prasarak Mandal's
Someshwar Vidnyan Mahavidyalaya, Someshwarnagar
Parent Consent letter for Industrial visit / Research centre

Date:

Name of the student: Pradnya sadashiv Gawade

Class: T.7. B.sc in microbiology

Roll no: 3030

I am the Parent ofPradnya.....sadashiv.....Gawade.....

do hereby give my consent to my son / daughter for industrial visit/ research centre to

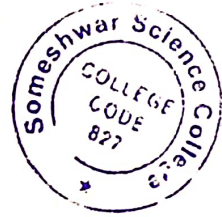
place:~~Hale~~ ^{होळ}....., on day :friday....., date : 22/03 / 2024 . During journey,
and visit I assure that he /she will follow the rules and regulations stipulated by the college. I understand
that the college authorities will not be held responsible for any incidents occur during the visit.

Signature of the parent :

Name of the parent:

Contact no:

9860447670



Shri Someshwar Shikshan Prasarak Mandal's
Someshwar Vidnyan Mahavidyalaya, Someshwarnagar
Parent Consent letter for Industrial visit / Research centre

Date:

Name of the student: Pawar Ankita Vijaykumar

Class: T.Y. BSc

Roll no: 3034

I am the Parent of Pawar Ankita Vijaykumar.....

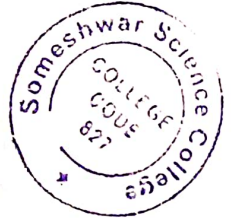
do hereby give my consent to my son / daughter for industrial visit/ research centre to

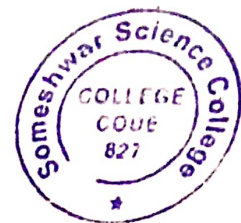
place: ARI, sonatewadi, on day: Friday....., date: 22 / 03 / 2024 . During journey, and visit I assure that he /she will follow the rules and regulations stipulated by the college. I understand that the college authorities will not be held responsible for any incidents occur during the visit.

Signature of the parent: K. Gaikwad

Name of the parent: Kishor Madhukar Gaikwad .

Contact no: 8788383485 / 9850813986





Industrial visit report

Visit to : Someshwar Sugar Cooperative Industry, Someshwarnagar

Tal: Baramati, Dist : Pune Pin : 412306

Date of visit : 23rd March , 2024

Department: Microbiology

Program: Industrial visit - Someshwarnagar, Baramati.

This industrial visit was arranged by teachers of Department of Microbiology , Someshwar Vidnyan Mahavidyalaya, Someshwarnaga .This visit attended by all the students of S.Y.and T.Y.B.Sc.Microbiology and I was part of it.Hence, It gives me immense pleasure in presenting this report on "INDUSTRIAL VISIT at SOMESHWAR COOPERATIVE SUGAR FACTORY, SOMESHWARNAGAR have taken great efforts in this report. However, it would not have been possible without the kind support and help of many individuals.

Resource person: Mr. Parkale D.G.

Mr. Vishal Bandgar

Mr. Balaso Gaikwad

Objectives : To provide students an exposure about the newly developing fermentation techniques in industry, detail information of ethanol production, inoculum development, and internal working environment in the industry.

Need: Aim to go beyond academics, educational visit provide practical approach and exposure about the functioning of various processes within the industry.

Students participants : S.Y..B.Sc. Microbiology (15 students)

T.Y.B.Sc. Microbiology (06 students)

Total : 21 students + 02 faculties

Conclusion:

Students have gain knowledge about different processes daily carried out in industry. Students also aware about the various machinery used in the industry.

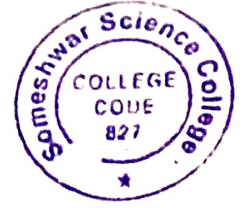
Bhosale J.M.
23/03/24
Batch in-charge :
Asst.Prof. Bhosale J.M.

Shubhangi Kamble
26/03/24
Head,
Department of Microbiology
Asst. Prof. Shubhangi Kamble

[Signature]
Principal
Someshwar Science College, Someshwarnagar

Someshwar Vidnyan Mahavidyalaya, Someshwarnagar

Research centre visit report



Visit to : Agharkar Research Institute, Hol, Pin : 412306 Tal: Baramati, Dist : Pune

Date of visit : 22nd March , 2024

Department: Microbiology

Program: Research centre visit - Hol, Baramati.

This industrial visit was arranged by teachers of Department of Microbiology , Someshwar Vidnyan Mahavidyalaya, Someshwarnagar .This visit attended by all the students of S.Y.and T.Y.B.Sc.Microbiology and I was part of it.Hence, It gives me immense pleasure in presenting this report on "VISIT TO AGAIHKAR RESEARCH INSTITUTE, HOL, BARAMATI have taken great efforts in this report. However, it would not have been possible without the kind support and help of many individuals.

Resource person: Mr. Sudhir Baviskar

Mr. Ekbothe sir and Ms. Shrisha mam.

Objectives : To provide students an exposure about the newly developing varieties of different plants and internal working environment in the research centre.

Need: Aim to go beyond academics, educational visit provide practical approach and exposure about the functioning of various processes within the institute.

Students participants : S.Y.B.Sc. Microbiology (15 students)

T.Y.B.Sc. Microbiology (06 students)

Total : 21 students + 04 faculties

Conclusion:

Students have gain knowledge about different varieties of wheat and soyabean . Students able to identify different diseases caused due to fungi.

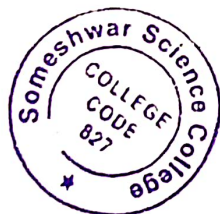
Bhosale J.M.
25/03/24
Batch in-charge :
Asst.Prof. Bhosale J.M.

Shubhangi Kamble
26/03/24
Department of Microbiology
Asst. Prof. Shubhangi Kamble

[Signature]
Principal
Someshwar Science College, Someshwarnagar

Table of Content

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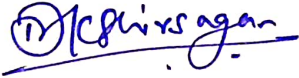



Principal

Someshwar Science College, Someshwarnagar

Certificate

This is to certify that Mr./Ms. Ankita Pawar
has successfully completed visit report of visit at Agharakar Research Centre,
Sortewadi, Hol on 22nd March 2024 .



Teacher In Charge


[Asst.Prof.Madhuri S.Bhandwalkar]



HOD

Department of Microbiology
[Asst.Prof.Shubhangi Kamble]






Principal
Someshwar Science College, Someshwarnagar

Acknowledgement

I owe my sincere thanks to our Principal Prof.S.B.Surywanshi and HOD, Asst.Prof.Shubhangi Kamble of Microbiology Department for giving us an opportunity to go for a research Institute visit .My heartfelt gratitude also goes to Dr.Sudhir Navathe,Dr.Shirisha Thakare for guiding us through the various processes , Asst.Prof.Madhuri Bhandwalkar ,Asst.Prof. Jayashri Bhosale and Asst.Prof. Monika Gaikwad for managing visit.



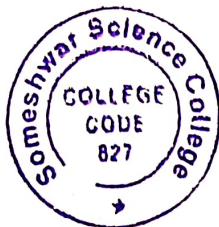

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Objective of the visit

The objective of the Industrial Visit is to help students gain first-hand information regarding functioning of the research institute which presents the students with opportunities to plan, organize and engage in active learning experiences both inside and outside the classroom.

Specific objectives for the students

- To understand the process
- To experience chemistry at work
- To become aware of role of different people in an organization
- To become aware of career opportunities
- To recognize the need for health and safety in the workplace
- To focus students on specific aspects of their studies




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Educational Tour at
' Maharashtra Association for the cultivation of Science (MACS),
Agharkar Research Institute, Agricultural Experimental Farm,
Sortewadi-HOL '

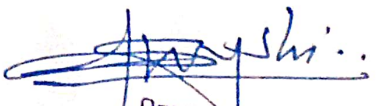
Name of the Dept.: Microbiology
Class : T.Y.B.Sc
Date of the Tour : 22.3.2024
Teachers: Asst.Prof .Mrs. M. S.Bhandwalkar
Asst.Prof.Ms.Bhosale J.M.
Asst.Prof.Kamble Shubhangi
Asst.Prof.Ms.M.R.Gaikwad

An educational tour to 'Agharkar Research Institute, Agricultural Experimental Farm, Sortewadi-Hol ' for T.Y. B. Sc. – Microbiology, students was organized on 22nd March 2024. In total 17 students accompanied the 4 teachers for the tour. A visit was gone by state transport bus for the proper and safe mode of transport of the students. All the students reported sharp at 11.00 a.m. in the premises of the Institute.

Dr. Sudhir Navathe Scientist, Plant Pathology, welcomed us. He introduced the staff working there and gave all the introductory information as follows.

The Institute, which started in 1946 as the Maharashtra Association for the Cultivation of Science Research Institute, got a new name in 1992. It became the Agharkar Research Institute (ARI) to honor its first director, Professor Dr. Shankar Purushottam Agharkar, who had passed away. ARI is an independent research organization that gets all its funding from the Department




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Someshwar Science College, Someshwar

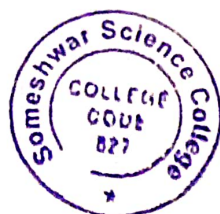
of Science and Technology (DST) of the Indian government since 1966. It operates as part of the Maharashtra Association for the Cultivation of Science (MACS).



Current research activities involve:

- Developing high yielding, disease resistant wheat, soybean and grape varieties for India, in general and peninsular zone, in particular.
- Identification and utilization of the genetics stocks from Indian and exotic germplasm to enhance drought and heat tolerance as well as water use efficiency under drought environment.
- Development and utilization of functional molecular markers in breeding crops for various desired traits such as enhanced grain yield, tolerance to abiotic & biotic stresses as well as improved nutritional & end-use quality.

Scientists from Agharkar Research Institute (ARI) in Pune, India, have created a new kind of wheat called MACS 4028. This wheat has a lot of protein and is very nutritious. It also has good amounts of zinc and iron. The scientists who worked on improving wheat at ARI found that this new variety has 14.7% protein, along with zinc and iron content of 40.3 ppm and 46.1ppm respectively. This wheat is also good for milling, and people like it. The research about MACS



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Someshwar Science College, Someshwar, Maharashtra

4028 was published in the Indian Journal of Genetics and Plant Breeding. This wheat is shorter than other kinds and grows faster, taking 102 days to mature. It can produce 19.3 quintals of wheat per hectare. Additionally, it's resistant to several pests and diseases like rust and aphids.

The wheat type MACS 4028 has been officially approved by the Central Sub-Committee on Crop Standards, Notification, and Release of Varieties for Agricultural Crops (CVRC). It's suitable for planting at the right time and for areas with rain fed conditions in the Peninsular Zone, which includes Maharashtra and Karnataka. Additionally, the Indian Council of Agricultural Research (ICAR) recognized this variety as belonging to the Biofortified category in 2019.

This wheat variety called MACS 6478 developed by scientists from ARI, an autonomous institute of the Department of Science and Technology (DST), has doubled the crop yield for farmers in Karanjkhop, a village in Maharashtra.

Next we visited lab where Dr. Shirisha Thakraey, gave the information about the various fungal diseases of wheat like rusts, smuts, Fusarium head blight, Septoria leaf blotch, tan spot, and powdery mildew. She works on *Bipolaris sorokiniana* (teleomorph, *Cochliobolus sativus*) is one of the wheat pathogens that can attack all wheat parts, including seeds, roots, shoots, and leaves. Black point, root rot, crown rot and spot blotch are the main diseases caused by *B. sorokiniana* in wheat. She explained the growth of fungus on plats protocol and showed the plates and protocol of microscopy of this as below.

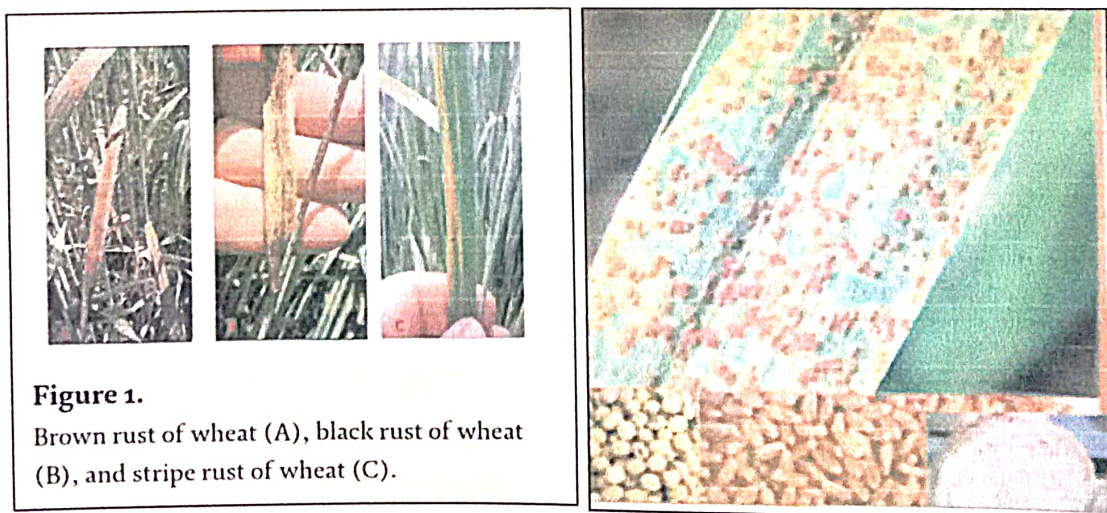
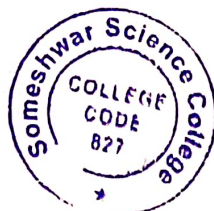
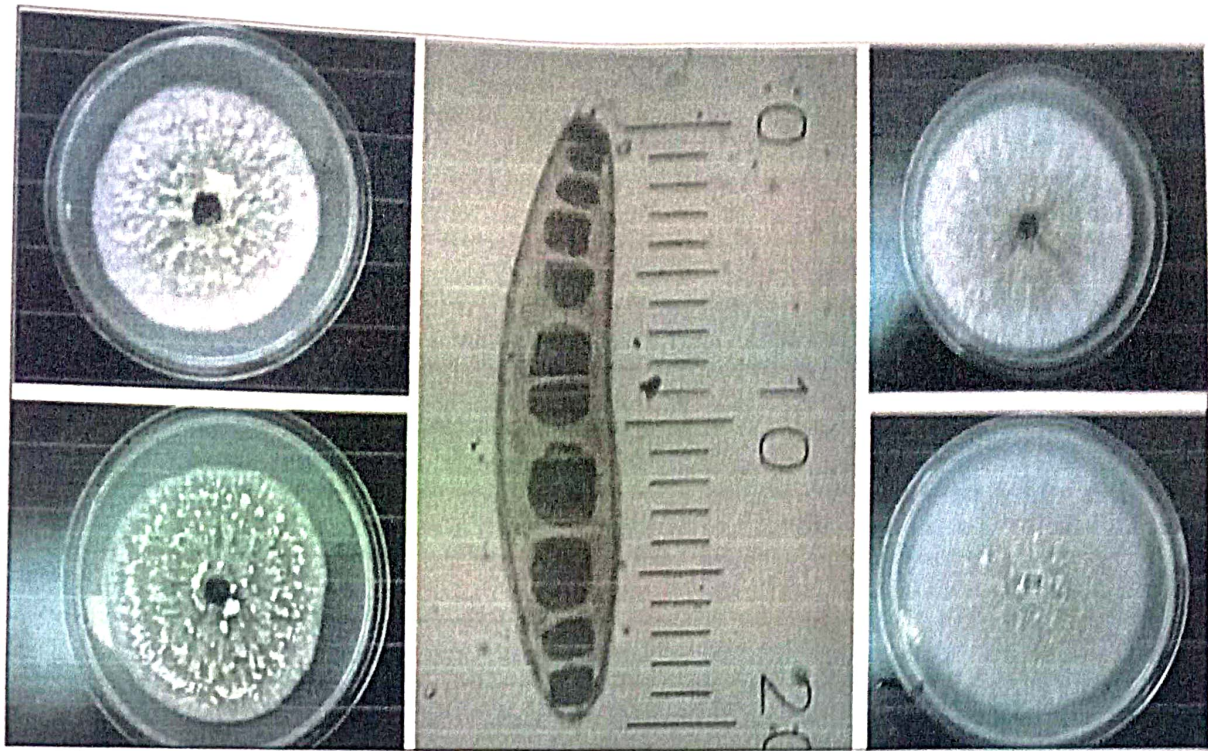


Figure 1.
Brown rust of wheat (A), black rust of wheat (B), and stripe rust of wheat (C).

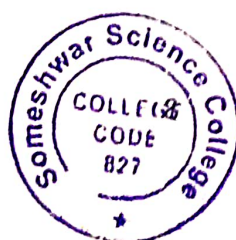


Shirisha
P----

Someshwar Science College, Someswarnagar



The educational tour was a successful as student learned new avenues in the field of microbiology and Molecular Biology that are useful in various fields of science and technology. Motto of the students to study the use of Microbiology in various fields was also achieved. Visit was returned to the college by 2.00 pm.



[Handwritten Signature]
Principal
Someshwar Science College, Someshwaragar

**S.Y.B.Sc.(Computer Science), Electronics, Semester IV
Paper III, Practical Course (ELC-243)****Objectives:**

1. To use basic concepts for building various applications of embedded electronics.
2. To build experimental setup and test the circuits.
3. To develop skills of analyzing test results of given experiments.
4. Developing Trained Personals for educating and training for upcoming graduates in wireless communication.
5. Implement basic IoT applications on embedded platform

Course Outcomes : On completion of the course, students will be able

1. To design and develop own smart applications using Rasberry-Pi
2. To write Python program for simple applications
3. To build own IoT based system

Guidelines :

- Practical batch size : 12
- Minimum no of Practical to be performed : 10
- Eight compulsory experiments: At least four practical from each Group
- One activity equivalent to 2 experiments by the student.
 - a. Continuation of F. Y. activity.
 - b. Electronics project Based on the Theory Courses learnt
 - c. Documentation type experiments
 - d. Presentation/Seminar on Electronics /advanced topic/research topics.

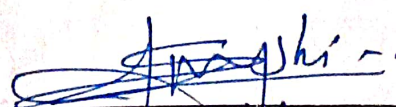
Prerequisite: Rasberry Pi boards, Arduino / LoRa boards

COURSE CONTENTS**Group A (any 4)**

1. Programming of Rasberry Pi to control LEDs attached to the GPIO pins
2. Programming of Rasberry Pi to get feedback from a switch connected to the GPIO pins

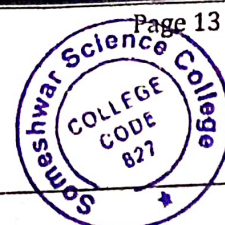
SPPU-SYBSc(CS)Electronics, CBCS pattern, 2020-21

Page 13



Principal

Someshwar Science College, Someshwarnagar





॥ Tamaso ma Jyotirgamaya ॥

Phone (02112) 283187, 282728

Shri Someshwar Shikshan Prasarak Mandal's

SOMESHWAR VIDNYAN MAHAVIDYALAYA

Someshwarnagar, Tal: Baramati, Dist: Pune Pin - 412 306, Maharashtra, India

(Affiliated to Savitribai Phule Pune University, Pune)

Estd. : 2007

Govt. Reg. No. N.G.C.2007(189/07) Mashi-3, Dt. 2 July 2007

College Code - 827

University Appvl. No. IDNo. PU/PN/SI/28A/2007

Ref. No. S.V.M. / 186 / 2023 - 24

Date : 18/04/2024

To,
Hon. Rajendra Yadav
The Managing Director
Someshwar Cooperative Sugar Factory,
Someshwarnagar

Subject: About Industrial Visit at 18MW Cogeneration Plant...

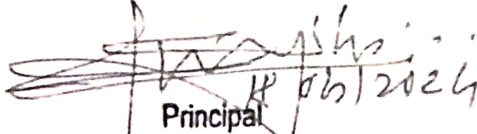
Respected sir,

With reference to the mentioned subject, our Department of Electronic Science has industrial visits as part of our SYBCS Practical Curriculum. I hereby request to get permission for an industrial visit to our Someshwar Cooperative Sugar Factory 18 MW cogeneration plant.

Our faculty members intend to pay a visit on Friday, April 19, 2024, beginning at 10:00 a.m. So, kindly allow us for said visit.

Thanking You,

students - 78
faculties - 03
Total - 81


Principal
18/04/2024
Someshwar Science College, Someshwarnagar

To,
The Principal
Someshwar Science College, Someshwarnagar

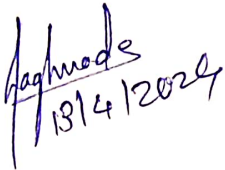
Subject: About SYBCS Industrial Visit at 18MW Cogeneration Plant...

Respected sir,

With reference to mentioned subject I hereby am requesting to get permission for Industrial visit to our Someshwar Sugar Factory 18MW cogeneration plant as the part of their Practical's.

We have planned to visit on Friday 19th April 2024 in afternoon. So, kindly allow us for said visit.


Thanking You,

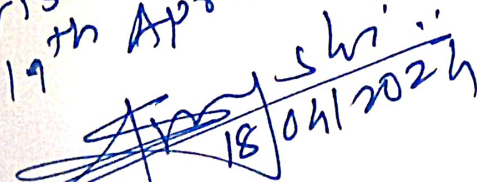

13/4/2024

Miss. K.S. Waghmode



Mr. C.B. Mahanavar


13/04/2024
Head,
Department of Electronics Science
Mr. D.V. Bansode

Allowed
to visit on
19th April 2024

18/04/2024
Principal
Someshwar Science College, Someshwarnagar

**To,
The Managing Director
Someshwar Cooperative Sugar Factory,
Someshwarnagar**

Subject: About Industrial Visit at 18MW Cogeneration Plant...

Respected sir,

With reference to mentioned subject I hereby am requesting to get permission for Industrial visit to our Someshwar Cooperative Sugar Factory 18MW cogeneration plant as the part of their Practical Curriculum.

We have planned to visit on Friday 19th April 2024 in morning 10:00am onwards. So, kindly allow us for said visit.

Thanking You,



**Co-ordinator
IQAC
Someshwar Science College
Someshwarnagar**

**Prof. D.V. Bansode
Vice- Principal, IQAC Coordinator
H.O.D. Electronic Science**

Shri Someshwar Shikshan Prasarak Mandal's
SOMESHWAR SCIENCE COLLEGE, SOMESHWARNAGAR

Electronic Science

SYBSc Computer Science

Teacher Activity Attendance

Roll No.	Student's Name	Signature IN	Signature OUT
7001	Nikam Yash Sanjay	—	—
7002	Magar Aniket Santosh	—	—
7003	Kapase Sakshi Prakash	<i>[Signature]</i>	<i>[Signature]</i>
7004	Chavan Priyanka Sunil	<i>[Signature]</i>	<i>[Signature]</i>
7005	Kakade Dnyaneshwari Satish	<i>[Signature]</i>	<i>[Signature]</i>
7006	Jagdale Snehal Mugut	<i>[Signature]</i>	<i>[Signature]</i>
7007	Pharande Kaveri Uttam	<i>[Signature]</i>	<i>[Signature]</i>
7008	Wadkar Shivani Vijay	<i>[Signature]</i>	<i>[Signature]</i>
7009	Bhosale Sakshi Rajendra	<i>[Signature]</i>	<i>[Signature]</i>
7010	Jadhav Vaibhav Bhanudas	<i>[Signature]</i>	—
7011	Gaikwad Prashant Balaso	<i>[Signature]</i>	—
7012	Jadhav Aryan Rahul	—	—
7013	Guldagad Chaitanya Shankar	—	—
7014	Jadhav Pratik Santosh	—	—
7015	Holkar Prasad Sanjay	—	—
7016	Lokhande Avinash Mohan	—	—
7017	Zanzane Samarth Arvind	—	—
7018	Gadekar Saurabh Arun	<i>[Signature]</i>	<i>[Signature]</i>
7019	Bhapakar Akash Lalaso	<i>[Signature]</i>	<i>[Signature]</i>
7020	Adsul Shivam Ashok	<i>[Signature]</i>	<i>[Signature]</i>
7021	Ghadge Rohit Santosh	—	—
7022	Karche Vishal Vikram	—	—
7023	Gadhawe Rohan Navnath	—	—
7024	Yadav Mayank Bharat	<i>[Signature]</i>	<i>[Signature]</i>
7025	Sayyad Danish Shakur	—	—
7026	Sayyad Sana Alibhai	<i>[Signature]</i>	<i>[Signature]</i>
7027	Borate Mangesh Dipak	<i>[Signature]</i>	<i>[Signature]</i>
7028	Kambale Kumar Santosh	—	—

Roll No.	Student's Name	Signature IN	Signature OUT
7029	Gaikwad Avishkar Shashikant	—	—
7030	Madane Dhiraj Janardhan	<i>Dhiraj</i>	<i>Dhiraj</i>
7031	Madane Anuj Dhanaji	<i>Anuj</i>	<i>Anuj</i>
7032	Dhumal Shradha Dilip	<i>S.O. Dhumal</i>	<i>S.O. Dhumal</i>
7033	Shinde Nikhil Mahadev	<i>Soham</i>	<i>Soham</i>
7034	Dhumal Rutuja Vishnu	<i>Rvhumal</i>	<i>Rvhumal</i>
7035	Adsul Sayali Vilas	<i>S.V. Adsul</i>	<i>S.V. Adsul</i>
7036	Jagtap Diksha Vijay	<i>D.V. Jagtap</i>	<i>D.V. Jagtap</i>
7037	Sakate Rutuja Rajendra	<i>RS</i>	<i>RS</i>
7038	Pawar Aniket Satyawar	<i>ASP</i>	<i>ASP</i>
7039	Hagawane Sharvari Laxman	<i>S.L. Hagawane</i>	<i>S.L. Hagawane</i>
7040	Pisal Sakshi Manohar	<i>SPisal</i>	<i>SPisal</i>
7041	Jagtap Sneha Dattatray	<i>Sneha</i>	<i>Sneha</i>
7042	Kanase Rutuja Bhujang	<i>Rutuja</i>	<i>Rutuja</i>
7043	Chaudhari Ankita Bhanudas	<i>Ankita</i>	<i>Ankita</i>
7044	Salunke Amruta Suresh	<i>Amruta</i>	<i>Amruta</i>
7045	Rajwade Aarti Vijay	<i>Aarti</i>	<i>Aarti</i>
7046	Nale Ankita Vijay	<i>Ankita</i>	<i>Ankita</i>
7047	Kumbhar Shubhangi Bharat	<i>Shubh</i>	<i>Shubh</i>
7048	Bunage Divya Dinkar	<i>Divya</i>	<i>Divya</i>
7049	Salunkhe Pooja Sadashiv	<i>P.S. Salunkhe</i>	<i>P.S. Salunkhe</i>
7050	Navale Sanket Kuldeep	—	—
7051	Deshmukh Aditya Anil	<i>Ashmukh</i>	<i>Ashmukh</i>
7052	Sabale Aryan Mahendra	<i>Sabale</i>	<i>Sabale</i>
7053	Khalate Prathamesh Dipak	—	—
7054	Deshmukh Suyash Dhananjay	<i>Suyash</i>	<i>Suyash</i>
7055	Kadam Yash Ajit	<i>Ykadam</i>	<i>Ykadam</i>
7056	Khandale Avinash Dnyaneshwar	<i>Avinash</i>	<i>Avinash</i>
7057	Tathe Dhanashree Chandrakant	<i>Dathe</i>	<i>Dathe</i>
7058	Deshmukh Siddesh Shekhar	<i>Sid</i>	<i>Sid</i>
7059	Thombare Rutuja Dada	<i>RThombare</i>	<i>RThombare</i>
7060	Sonawane Anujay Balaso	—	—
7061	Jagdale Rohan Vasant	<i>Roh</i>	<i>Roh</i>

Roll No.	Student's Name	Signature IN	Signature OUT
7062	Pawar Aparna Vilas		
7063	Jagdale Shubham Sachin		
7064	Deshmukh Omkar Anil	—	—
7065	Jagtap Vijay Satish	—	—
7066	Salunke Aditya Baban		
7067	Devrukhe Jaydeep Prakash		
7068	Kolekar Sambhaji Mahadev	—	—
7069	Naykude Avishkar Vijay	—	—
7071	Pawar Aditya Vikas		
7072	Nimbalkar Atharv Satish	—	—
7073	Kadam Atharv Ajit		
7074	Jagtap Harshad Hanmant	—	—
7075	Gaikwad Shreyash Bhanudas	—	—
7076	Pawar Swapnil Pramod	—	—
7077	Salve Kshitij Yuvraj		
7078	Takawale Sanika Vitthal		
7079	Magar Pratik Sunil		—

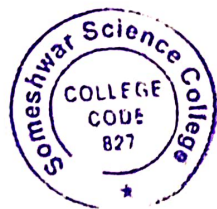
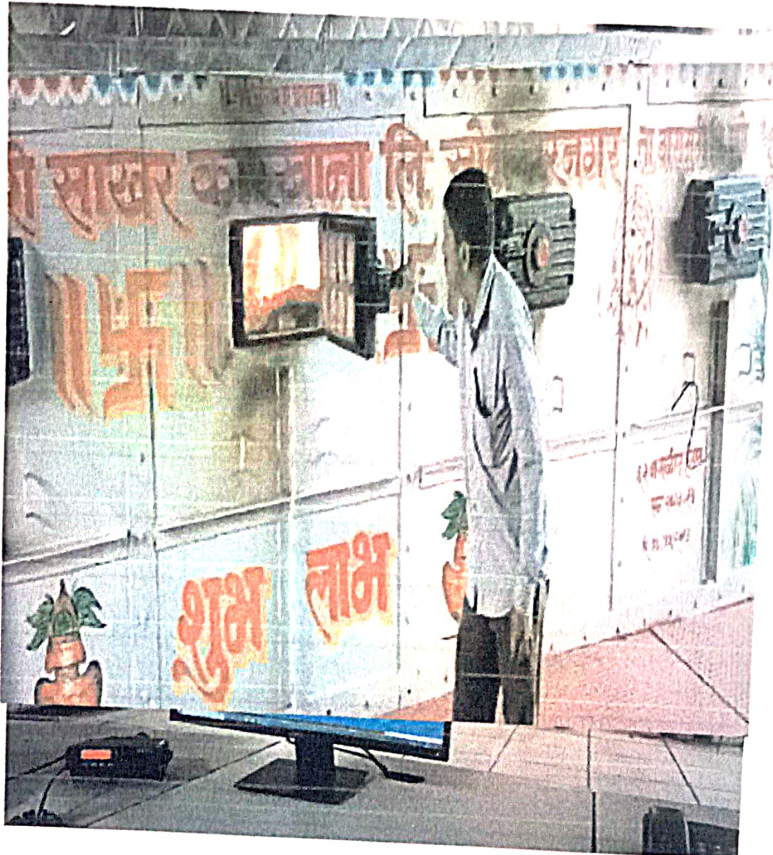
Head, 19/04/2024
Department of Electronics Science

Principal, 19/04/2024
Someshwar Science College, Someshwarnagar

Total = 51

1.3.3- Number of student's undertaking project work/field work/Internship

Field Visit Department of Electronic Science 19-04-2024



[Handwritten Signature]
Principal

Someshwar Science College Someshwarnagar





CERTIFICATE

Shri Someshwar Shikshan Prasarak Mandal's

SOMESHWAR SCIENCE COLLEGE, SOMESHWARNAGAR



Department of Electronic Science

Organized

One day Industrial visit to 18MW Co-generation Power Plant, Someshwarnagar

This is certify that Miss. Sakshi Prakash Kapse class- S.Y.B.Sc. Comp. Sci. has been actively participated in One day Industrial visit to 18MW Co-generation Power Plant, Someshwarnagar organized by Department of Electronic Science on 19.04.2024.


Coordinator


Head of Department


Principal
Someshwar Science College, Someshwarnagar





CERTIFICATE

Shri Someshwar Shikshan Prasarak Mandal's

SOMESHWAR SCIENCE COLLEGE, SOMESHWARNAGAR



Department of Electronic Science

Organized

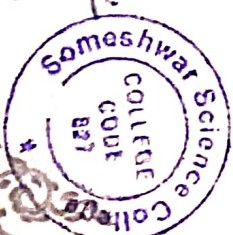
One day Industrial visit to 18MW Co-generation Power Plant, Someshwarnagar

This is certify that Mr. Saurabh Arun Gadekar class- S.Y.B.Sc. Comp. Sci. has been actively participated in One day Industrial visit to 18MW Co-generation Power Plant, Someshwarnagar organized by Department of Electronic Science on 19.04.2024.


Coordinator


Head of Department


Principal
Someshwar Science College, Someshwarnagar

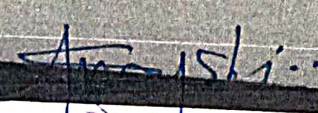


At maximum rate of combustion the temperature of steam chamber is at 200°C to 250°C . To increase this temperature up to 515°C the two stages of super heaters are connected to this steam. Now steam of 515°C & of 91Kg/cm^2 pressure is ready for fired on blades of turbine.

The turbine used here is of Siemens make having 18 blades. The steam of temp 515°C & 91 kg/cm^2 Pressure fall on these blades. So converting this pressure energy into kinetic energy. So the turbine rotating at speed of 6800 RPM. The alternator here used is of 2 poles hence rpm requires for alternator is nearest 1540. To convert the RPM 6800 into 1540, the reduction type gear box is used, which converts the RPM 6800 into 1540. For Generation of electrically we know that there is action of cutting of magnetic flux by the coil. Hence the rotating magnetic field is applied to the stator (stationary coil) through the Rotor. The fixed magnetic field provide to Rotor coil by PMG (Permanent Magnetic Generator).

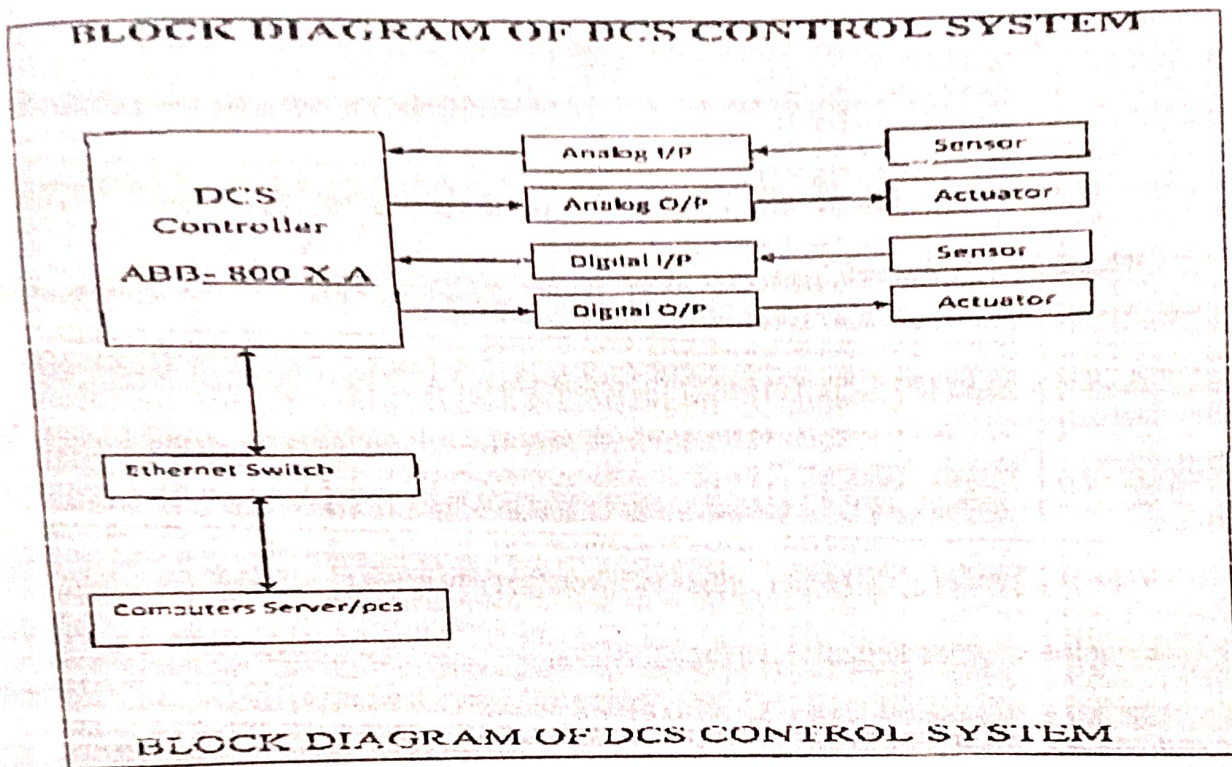
As a result we can generate the electricity of 18 MW/hour from alternator. The current and Voltage at alternate is very high, the voltage up to 18000V & current up to 1000A, later it is step downed or stepped up & synchronized and sale to the M.S.E.B.

The Ash collected at bottom of furnace. The ESP (Electro Static Precipitated) unit has important role to reduce air pollution. The charge given to ESP is negative, So that carbon granules in the smoke is attracted & get collected at ESP unit. So the smoke which exited into environment is without so much

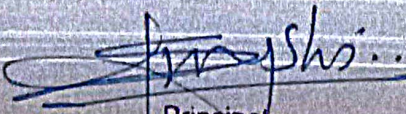

Principal
Someshwar Science College, Someshwarnagar



pollution. Following fig. shows the block diagram of DCS control system for power plant.



There different types of mechanical assemblies, sensors & actuators are used in this plant for automatic working of this plant. The plant is fully automated by DCS (Distributed control system). Here we used controller is ABB 800 XA having number of Analog & Digital I/P, O/P Cards. The DCS is the main controller which continuously monitoring & Controlling all the process at a time. There are different types of sensor namely reed switch, proxy switch, Hot Meter detector, IR Detector, limit switches, temp, Pressure, position, weight sensor etc. used to measuring, detecting the status of process.


 Principal
 Someshwar Science College, Someshwamaga



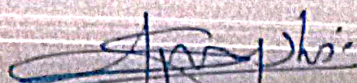
There are different types of actuator that are used like electromagnets, relays, cylinders, hydraulic motors, pneumatic pumps, solenoids, conveyers, control valves, servo motors, steppes motors, DC motors, VFDs (Variable Frequency Drives), AC Induction Motors etc. to control all of these processes.

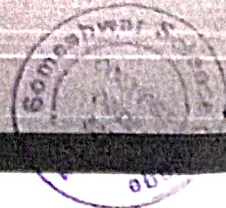
These all sensors are located in the process at which temp is to be measured; pressure is to be measured; to check the condition whether ON/OFF. The actuators is used in this plant to control speed of conveyer; to ON/OFF of the control Valve; to control all the processes. Now these all sensors & actuators are connected to the DCS Controller through fuses - Analog I/P (AI), Analog O/P (AO) Digital I/P (DI) Digital O/P (DO) Cards. Generally Analog I/P (4-20mA) is used for measuring the analog quantity is such as pressure, temperature, opening of valve in Percentage (%) also Analog O/P (4-20mA) generally given to the actuators like control valve, Solenoid, etc. to control the process in Percentage (%).

The Digital I/P is generally 0V or 24 V & DO is also 0V or 24 V. The DI & DO is used only for to check & to make ON/OFF, to run or to stop the motors Conveyers etc. or to check & Make the condition -at only two discrete levels.

The programs that are run in DCS is communicating to the computer block through the Ethernet Switch.

There are different types of programming languages like C++, Ladder, Block, Assembly by which we can program for PLCs (Programmable Logic Controller), DCS (Distributed Control Systems), SCADA (Supervisory Control and Data

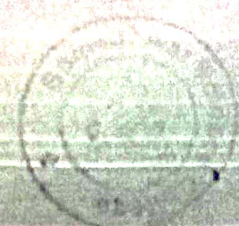

Principal

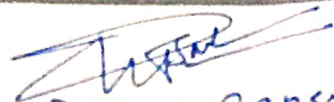


Acquisition) Systems. All the processes in this plant are interlocked to each other for precaution and to avoid malfunctioning in the process and to avoid accidents.

So, if any parameter becomes unhealthy (out of limit) includes pressure, temperature, rpm, vibrations etc. then the turbine get downed quickly and the process stopped for the maintenance of the plant.

The plant operated by few Engineers and workers. This only happened due to automation of the Plant. Generated Electricity 18MW is then sale to MSEB.

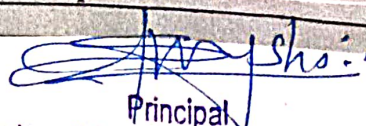


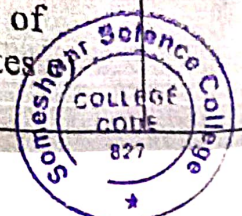

Prof. D.V. Bansode
H. O. D. Ele. Sci.

**S.Y.B.Sc. Botany CBCS Pattern
(Semester III, Paper I) 2020-2021**

BO 231: Taxonomy of Angiosperms and Plant Ecology - 2 Credits (30 Lectures)

Sr. No.	Topic Details	No. of Lectures
Credit-I		15
1.	Introduction to Angiosperms Taxonomy Definition, scope, objectives and importance of taxonomy Exploration, Description, Identification, Nomenclature and classification Concept of Systematics with brief historical background	02
2.	Systems of classification Comparative account of various systems of classification Artificial system- Carl Linnaeus Natural system- Bentham and Hooker Phylogenetic system- Engler and Prantl APG systems- A brief review	05
3.	Study of Plant Families Study of following families with reference to systematic position (As per Bentham and Hooker's system of classification), salient features, floral formula, floral diagram and any five examples with their economic importance – Annonaceae, Brassicaceae, Myrtaceae, Rubiaceae, Solanaceae, Apocynaceae, Nyctaginaceae and Amaryllidaceae	08
Credit-II		15
4.	Botanical Nomenclature Concept of nomenclature, brief history, Binomial nomenclature ICBN- Principles, Rules and Recommendations of nomenclature 'Type' specimen and its types (Holotype, Paratype, Isotype, Lectotype, Neotype). Concept of Typification. Ranks and endings of taxa names, Coining of Genus and Species names Single and double authority citation,	05
5.	Introduction to ecology Definition, concept, scope, and interdisciplinary approach, autecology and synecology. Species diversity: definition, concept, scope, and types: Alpha, Beta and Gamma diversity. Methods of vegetation sampling: quadrat method, transect method, plot less method Genetic Diversity: definition, nature and origin of genetic variations Species Diversity: definition, origin of species diversity, diversity indices, species abundance Ecosystem Diversity: definition, major ecosystem types of the world, Hotspots in India – concept and basis of 'hotspot' identification.	06
6.	Ecological grouping of the plants Ecological grouping of the plants with reference to their significance of adaptive external and internal features: a) Hydrophytes, b) Mesophytes, c) Xerophytes d) Halophytes with examples.	04


Principal





SOMESHWAR VIDNYAN MAHAVIDYALAYA

Someshwarnagar, Tal: Baramati, Dist: Pune Pin - 412 306 , Maharashtra, India
(Affiliated to Savitribai Phule Pune University, Pune) Estd. : 2007

Govt. Reg. No. N.G.C.2007(189/07) Mashi-3, Dt. 2 July 2007 College Code - 827 University Appvl. No. IDNo. PU/PN/S/284/2007

Ref. No. S.V.M. / 171 / 2023 - 24

Date : 09/10/2023

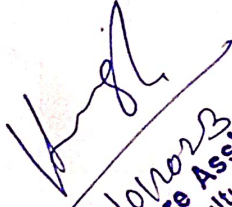
To,
The Associate Dean,
MPKV's College of Agriculture, Pune.

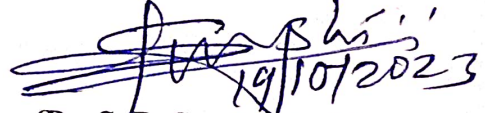
Respected Sir,

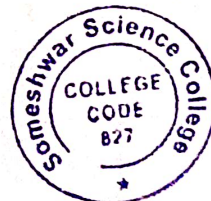
As per the syllabus of Savitribai Phule Pune University, Pune, the Second-Year B.Sc. students of our Someshwar Vidnyan Mahavidyalaya, Someshwarnagar, Baramati are visiting the Departments of Horticulture, Mycology, Floriculture (Hi-tech) of College of Agriculture, Pune. Kindly provide students the information and training regarding the subject and extend your full support.

Thank you for your valuable support!

Regards,


20/10/2023
Agriculture Assistant
Hi-Tech Floriculture Project
College of Agriculture, Pune


(Dr. S./B. Suryawanshi)
Principal
Someshwar Science College, Someshwarnagar





SOMESHWAR VIDNYAN MAHAVIDYALAYA

Someshwarnagar, Tal. Baramati, Dist: Pune Pin - 412 306 , Maharashtra, India

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Ref No. SVM.171/2023-24

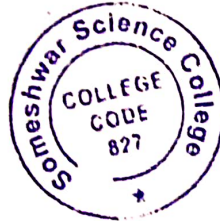
Date : 19/10/2023

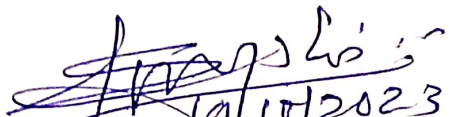
To Whom So Ever It May Concern

Respected Sir / Madam,

This is to certify that Mr. Shubham P. Thombare and Mr. Rajesh S. Nikalje of our Someshwar Vidnyan Mahavidyalaya are associating the Educational Visit Tour as prescribed in the Syllabus of S.Y.B.Sc. by Savitribai Phule Pune University, Pune. The visit will follow the following route Someshwarnagar – Jejuri – Saswad – Shivajinagar – Katraj – Saswad – Jejuri – Someshwarnagar. With this letter, I kindly expect you to extend full support considering the educational cause.

Regards,




19/10/2023
(Dr. S. B. Suryawanshi)



SOMESHWAR VIDNYAN MAHAVIDYALAYA

Someshwarnagar, Tal: Baramati, Dist: Pune Pin - 412 306 , Maharashtra, India
(Affiliated to Savitribai Phule Pune University, Pune)

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College Code - 827

University Appvl. No. IDNo. PU/PN/S/284/2007

Ref. No. S.V.M. 171/23-24

Date: 19/10/2023

To,

Head / Mycologist,

Mushroom Project, Dept. of Mycology

College of Agriculture, Pune.

Dear Sir,

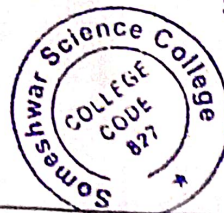
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Thank you for your valuable support!

Visited
S.B. Suryawanshi
19/10/23
Mycologist,
All India Coordinated Research
Project on Mushroom, Pune Centre
College of Agriculture, Pune

Regards,

S.B. Suryawanshi
19/10/2023
(Dr. S. B. Suryawanshi)
Principal
Someshwar Science College, Someshwarnagar





SOMESHWAR VIDNYAN MAHAVIDYALAYA

Someshwarnagar, Tal: Baramati, Dist: Pune Pin - 412 306 , Maharashtra, India
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Ref. No. SVM.171/2023-24

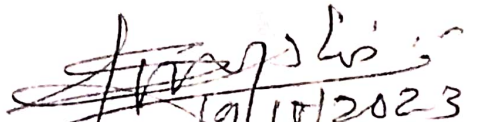
Date: 19/10/2023

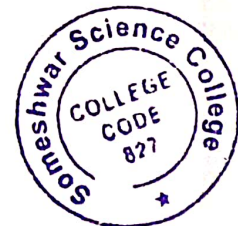
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Regards,


(Dr. S. B. Suryawanshi)





SOMESHWAR VIDNYAN MAHAVIDYALAYA

Someshwarnagar, Tal: Baramati, Dist: Pune Pin - 412 306 , Maharashtra, India
(Affiliated to Savitribai Phule Pune University, Pune)

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Ref. No. S.V.M. / 71 / 2023 - 24

Date : 19/10/2023

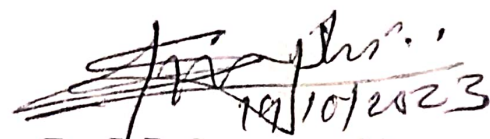
To,
The Associate Dean,
MPKV's College of Agriculture, Pune.

Respected Sir,

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Thank you for your valuable support!

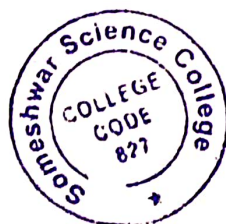
Regards,



(Dr. S. B. Suryawanshi)

Principal

Someshwar Science College, Someshwarnagar



98001
+ 8001

Someshwar shikshan prasarak mandal's
Someshwar science college , someshwarnagar
Academic visit 2023-24
Students list

Day- Friday

Date - 20/10/2023

Pimpri

Pimpri

Pimpri
Pimpri
Nimbut

Nira

Nira

Nira

Sr .no.	Students name	Sign .
1	Thopate Aditya vijay	N.Y.T. 600 online + 200 Cash
2	Kalaskar Sushant Anil (3421)	S.
3	Keskar Harshad Suresh (4201)	Harshad Keskar
4	Nikam Vedant Tanaji ()	TO Nikalje sir
5	Bhosale Shreyash Ajit	Bhosale
6	Borawake Yogesh Dattatraya	Borawake
7	Shinde Kunal Dattatraya	Shinde
8	Jadhav Ganesh Dharmraj (1000 - 5111)	G.P. Jadhav
9	Salwande Prajwal Bhaskar	TO Nikalje sir
10	Thopate Akshay Ramdas	Akshay
11	Thopate Shivraj Vijay	S.V. Thopate
12	Kakade Sai Ganesh (3421)	SATK
13	Jaypatre Bhumika Santosh (3421)	Bhumika
14	Thorat Aishwarya Sampat (4201)	Thorat
15	Gaikwad Pratiksha Nitin (3421)	P.N. Gaikwad
16	Mote Sima Chandrakant (3421)	S.C. MOTE
17	Jagtap Shivani Anil (1000 5111)	S.A. Jagtap
18	Bhosale Saniya Subhash (4201)	Bhosale 500
19	Achpal Prajakta Rajendra (3421)	Achpal
20	Harihar Supriya Gajanan (3421)	Harihar
21	Bankar Priya Pravin (3421)	P.P. Bankar
22	Nigade Priti Dattatraya	PN
23	Gaikwad Samruddhi Sunil (3421)	S.S. Gaikwad
24	Jadhav Sanika Popat	Jadhav
25	Mame Shambhuraj Dipak	Mame
26		
27		

600 online + 200 Cash

TO Nikalje sir

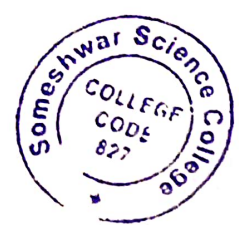
2001 - Returned G.P. Jadhav

TO Nikalje sir

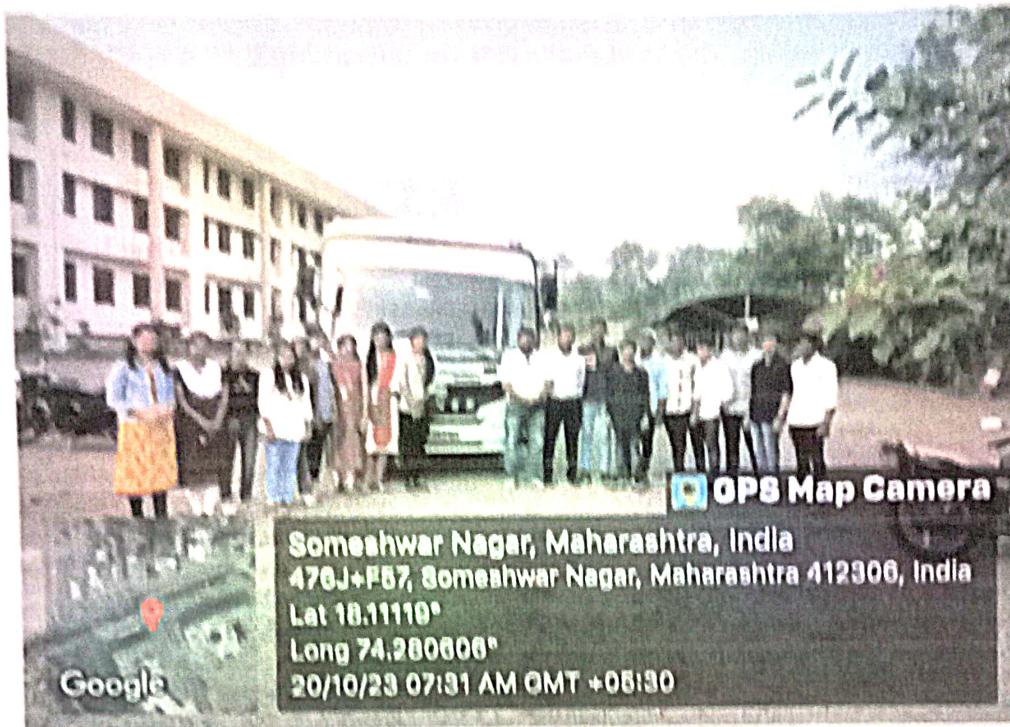
2001 - Returned S.A. Jagtap Paid.

500 - online

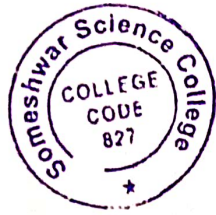
TOTAL = 25



Field Visit Department of Zoology and Botany 20th October 2024



[Signature]
Principal
Someshwar Science College, Someshwar



[Handwritten signature]

Principal
Someshwar Science College, Someshwar



SOMESHWAR SCIENCE COLLEGE

Someshwarnagar, Tal. Baramati, Dist. Pune (Pin: 412306)

(Affiliated to Savitribai Phule Pune University - Pune)

Estd- 2007

Phone (02112) 283187



Govt. Reg. No.N.C.G.2007 (189/07) Mashi-3, Dt. 2 July 2007 |College Code 827|University Appvl. No. ID No. PU/PN/S/284/2007

Department of Botany

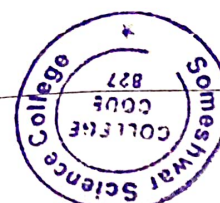
A Report on One Day Excursion at College of Agriculture, Pune

As part of SYBSc Curriculum of Savitribai Phule Pune University, Pune Department of Botany of SSPM's Someshwar Vidyan Mahavidyalaya, Someshwarnagar has organized the 'One day study excursion tour on 20/10/2023. The motive behind the organization of study tour is to aware us, the students of SYBSc Botany, about the opportunities and challenges in the field of Plant Science. Keeping this in the mind the location for the study visit is finalized to Mahatma Phule Krushi Vidyapith, Rahuri's College of Agriculture, Pune. The premises of the College of Agriculture, Pune is vast and beautiful, holding several departments working in the field of agricultural and plant science research. Out of these departments we have selected the three departments viz. Department of Mycology, Department of Floriculture and Department of Horticulture for the visit.

On the 20th October 2023 we started travelling from the college at 7'O clock in the morning. We followed the route of Someshwarnagar – Jejuri – Saswad - Hadapsar – Camp – Shivajinagar. After having a breakfast at Saswad we reached the location i.e. College of Agriculture, Pune on 11'O Clock. During the study excursion we have visited Department of Mycology, Department of Floriculture and Department of Horticulture.

Department of Mycology

We firstly visited the Mushroom Project of the Mycology Department. The details and work of the Mushroom project was briefly explained by Dr. Desai, Jr. Mycologist. In his elaborative talk of about 40 minutes he briefly explained the importance of mushroom in the diet.



the process and differences in the cultivation of Button (*Agaricus*) and Dhingri (*Pleurotus*) mushroom. In his talk he also focused on the market opportunities of the mushroom cultivation.

After getting the detailed theoretical summary of Mushroom Cultivation, our group visited the Mushroom Cultivation chambers of the project where we got to see the different varieties of the mushroom under cultivation. In the mushroom museum we observed different products manufactured from the mushroom, like- Mushroom pickles, Mushroom ready mix, etc.

The mushroom cultivation require 80-90% relative humidity and temperature range of 16°C-23°C. The cultivation starts with the compost preparation followed by spawning, incubation, harvesting and processing. Mushroom being fragile and perishable commodity, it requires processing after harvesting. The role of hanging method was also well described by the Dr. Desai.

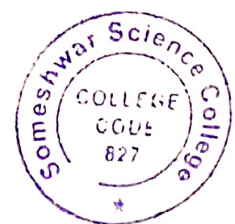
After the session we had a lunch and then visited the Department of Horticulture.

Department of Horticulture

The horticulture is the science of cultivation of plant in less time. The horticulture deals with the techniques like cutting, budding, layering.

The traditional method of cultivation of the plants specifically yield efficient plants includes seed propagation which require a high time for the propagation. For commercial plantation one requires a number of plants in short period of time. To deal with this situation, horticulture scientist are working day-night to achieve the success in propagation of many plants. In the Horticulture department, the expert in the field Dr. Sharad Ghanwat demonstrated and briefly explained the process, requirement and precautions to be taken while performing the horticultural techniques. Dr. Ghanwat also demonstrated the grafting and layering technique.

After thoroughly learning the skill in horticulture department, we visited the Department of Floriculture.



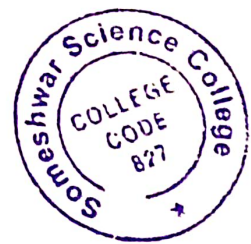
Department of Floriculture

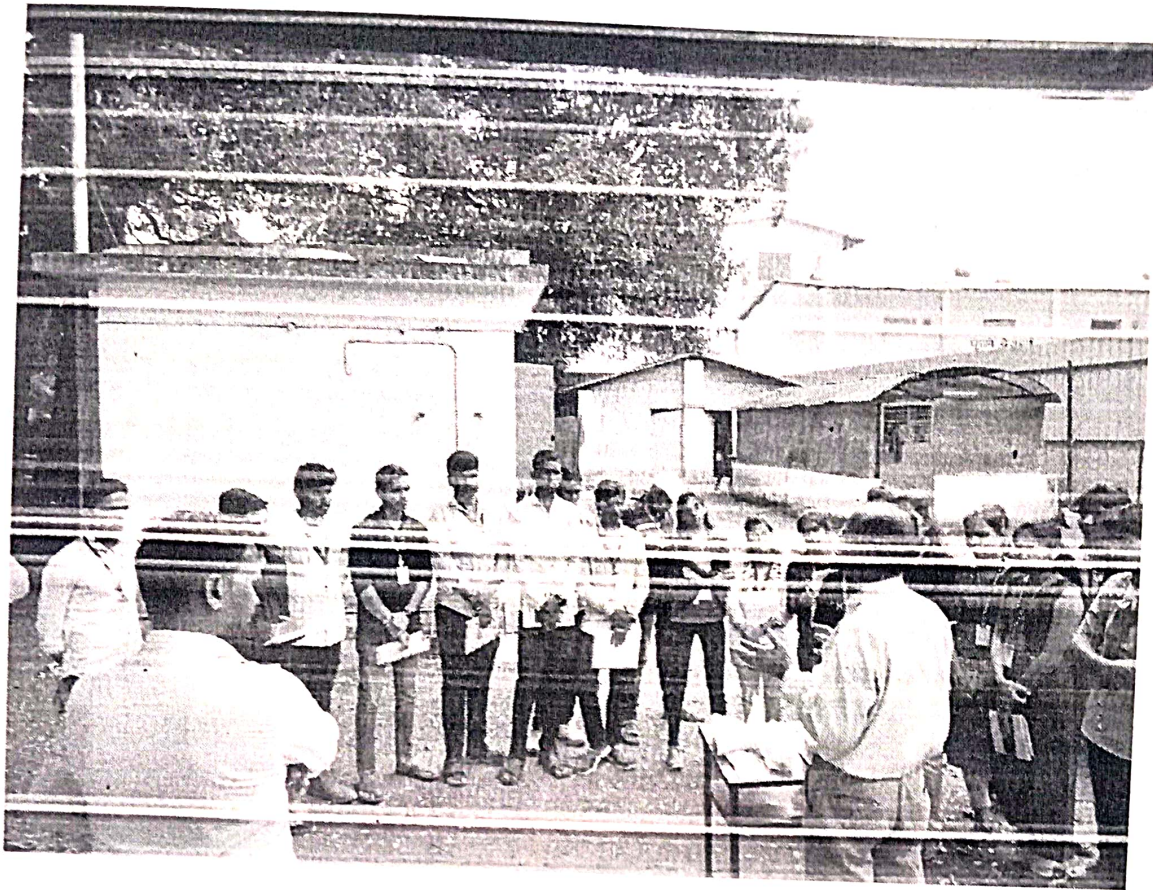
Floriculture or flower farming is the study of growing and marketing flower and foliage plants.

Floriculture includes cultivation of flowering and ornamental plants. Floriculture cultivation of flowers and ornamental crops from the time of planting to the time of harvesting. It is also deals with the production of planting material through the seeds cuttings, budding, grafting, etc. In the Department of Floriculture we have visited the Gerbera polyhouse and Rose polyhouse. Dr. Gandhat from the department explained the details about the emerging plant science - Floriculture. He also provided us the information and economic structure requires to build the self-owned floriculture industry. The cost-efficient methods including the use of fogger, terracotta pots, irrigation and fertilizers is well discussed by Dr. Gandhat. The important aspect of the floriculture industry, that is packaging and marketing is explained in detail in his talk.

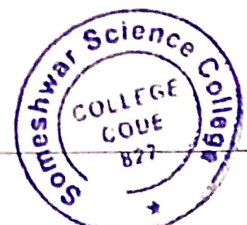
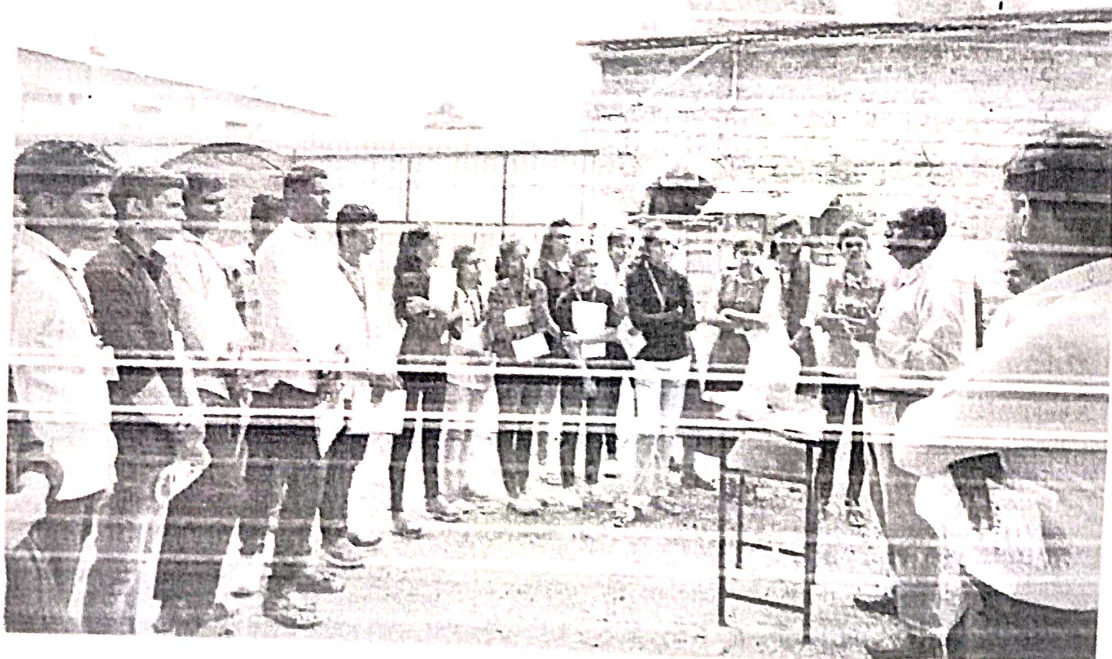
With this talk our one day visit to the College of Agriculture, Pune is concluded and we started the return journey following the route of Shivajinagar - Katraj - Bopdev - Saswad - Jejuri - Someshwarnagar. We reached the college at 7:00 clock in the evening.

The educational tour was coordinated by Mr. Shubham P. Thombare (Head, Department of Botany) and Ms. Samrddhi D. Pawar.



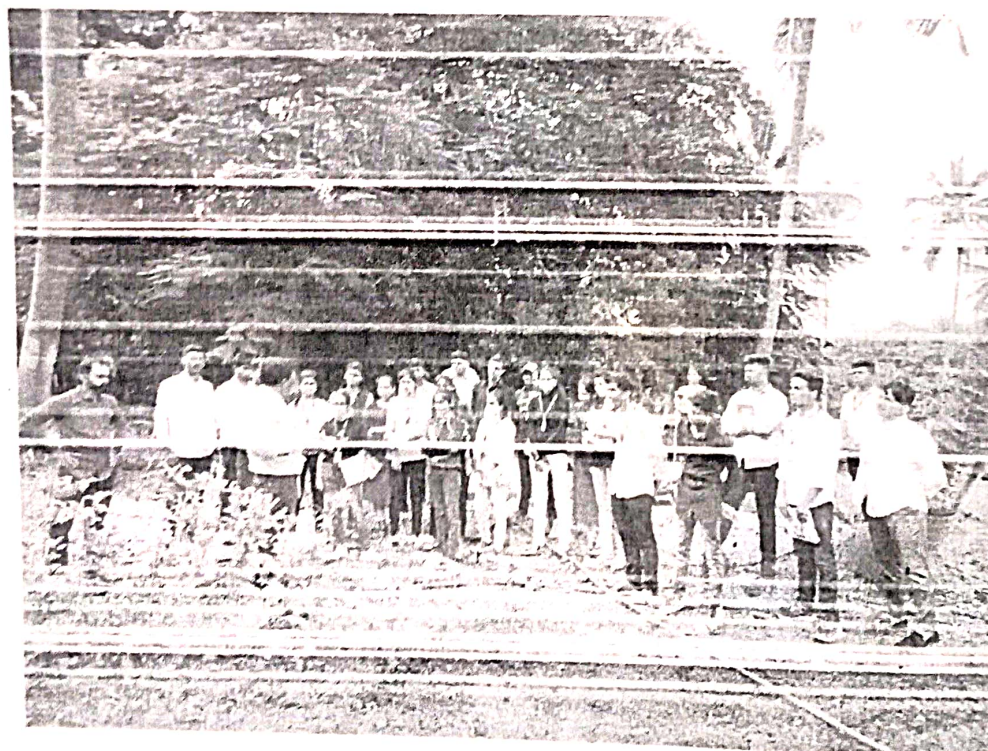


Students actively engaged in the discussion regarding Mushroom Cultivation at Mycology Department of Mahatma Phule Krushi Vidyapeeth, Rahuri's College of Agriculture, Pune.

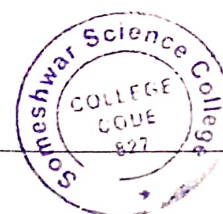




Students during the visit to the Floricultural Unit of Mahatma Phule Krushi Vidyapeeth, Rahuri's College of Agriculture, Pune.



Students participating in the on field demonstration of plant propagation techniques at the Department of Horticulure of MPKV, Rahuri's College of Agriculture, Pune.



Semester VI

Practical Course – II

SEC-MB 368: Metabolism and Molecular Biology

[2 Credits: 78 Lectures]

[1 credit=15hrs x 130 mins = 1950 mins/50 mins=39 lectures]

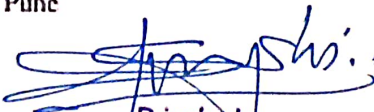
78 L distributed as 60 L for performing practicals and 18 L for internal evaluation

12 Practical x 5 lectures = 60 Lectures

Sr. No.	Title of the Practical	No. of Practical
1.	Clinical Biochemistry - Estimations of i. Blood sugar ii. Blood urea iii. Serum cholesterol iv. Serum proteins and albumin	3
2.	Enzyme production, purification, quantification and Immobilization: i. Lab scale production of amylase using isolates ii. Precipitation of amylase from fermentation broth (salt/solvent) iii. Determination of specific activity of crude and purified amylase iv. Immobilization of Amylase using calcium alginate	4
3.	Enrichment, Isolation and Enumeration of Bacteriophages (Principle, Methodology and Calculations of phage titer in PFU/ml)	2
4.	Isolation of Plasmid DNA and Agarose Gel Electrophoresis (Demonstration/hands on as per infrastructure availability)	1
5.	Study of Mitotic cell division from onion root tips	1
6.	Visit to a Biotechnology/ Biochemistry institute	1

References: MB 368 Metabolism and Molecular Biology

1. Ausubel F. M., Brent R., Kingston R. E., Moore D. D., Seidman J.G., Smith J. A. and Struhl K. (Editors.). (2003). Current Protocols in Molecular Biology. Copyright © John Wiley and Sons, Inc. ISBN: 047150338X
2. Bhatta P. and Sakya S. R. (2008). Study of mitotic activity and chromosomal behaviour in root meristem of *Allium cepa* L. treated with magnesium sulphate. Ecoprint. 15: 83-88. ISSN 1024-8668. Ecological Society (ECOS), Nepal. www.ecosnepal.com.
3. Birnboim H. C. and Doly J. (1979). A rapid alkaline extraction procedure for screening of recombinant plasmid DNA. Nucleic acid Research. 7(6):1513-1523.


Principal
Someswar Science College, Someshwar nagar



**Conclusion and Recommendations Future Scope
Bibliography and References**

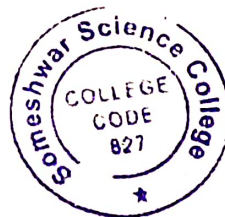
Project Related Assignments

Guidelines:

- The project assignments are a compulsory part of the project course and should be carried out by each project group.
- Project assignments are to be given by the guide for continuous internal evaluation.
- The project assignments are to be allotted to each group separately by the project guide on the basis of the implementation technology. A suggested list of assignments is given below.
 1. Project Time management: plan (schedule table), Gantt chart, Roles and responsibilities, data collection, Implementation
 2. Simple assignments to evaluate choice of technology
 3. Assignments on UI elements in chosen technology
 4. Assignments on User interfaces in the project
 5. Assignments on event handling in chosen technology
 6. Assignments on Data handling in chosen technology
 7. Online and offline connectivity
 8. Report generation
 9. Deployment considerations
 10. Test cases
- Each student within the group must work actively and contribute to the assignments, project work and report writing.

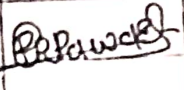
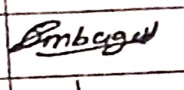
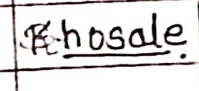
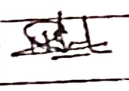
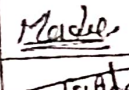
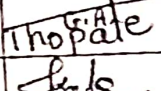
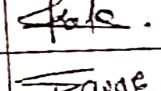
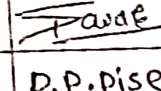
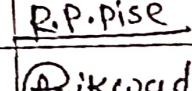
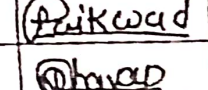
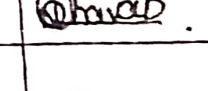

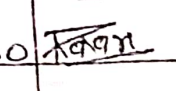

Evaluation guidelines:

IA (15 marks)			UE (35 marks)		
First presentation	Second presentation	Assignments	Project Logic/ Presentation	Assignments and Project Documentation	Viva
05	05	05	20	10	05

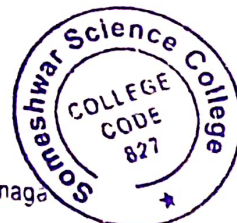



Principal
Someshwar Science College, Someshwarnagar

Project Presentation2 Attendance Sheet

Sr.no	Name of Project	Name of student	Sign
1	Online Mobile Shopping System	Pawar Prajakta Ramesh	
		Bagal Shubham Mahendra	
2	Online Resume Builder Web Application	Palange Anya Suresh	APalange
		Bhosale Kshitija Dhananjay	
3	Student attendance management system	Shendkar Nikita Navnath	
		Poonam Dhananjay Madane	
		Thopate Gauri Anil	
4	Student Result Management system	Kale Prathamesh G.	
		Pawar Siddhant B.	
		Pise Rushikesh P.	
5	Electricity Billing System	Gaikwad Gayatri P.	
		Chavan Nikita Dilip	
6	GYM MANAGEMENT SYSTEM	Mohite Riddhi Kailas	
		Kokare Priyanka Dadasa	
7	Online Food ordering System	Datta Dilip Ankushmao	
		Kadam Rutuja Ch.	

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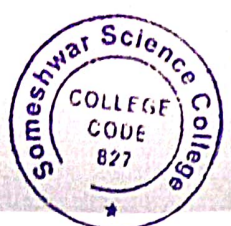



Principal
Someshwar Science College, Someshwarnagar

8	Online Agro Management System.	1	Jedhe Nishil	Shilpa
		2	Ashadgje Rohit	Gulme
		3	Sachav Prajwal	Pr
		4	Geedekar Haashjeet	Geedekar
9	Village transportation System	i)	Aditya pharande	Aditya
		ii)	Areshay Awate	Areshay
		iii)	Sanket Adaul	Sanket
10	Stock Management System	1)	Jagtap Priyanka	Jagtap
		2)	Jaydale Gourav	Jaydale
		3)	Karande Aniket	Aniket

Rishika

[Signature]
Principal
Someshwar Science College, Someshwar Nagar





Shri Someshwar Shikshan Prasarak Mandal's

SOMESHWAR VIDNYAN MAHAVIDYALAYA

Someshwarnagar, Tal: Baramati, Dist: Pune (Pin:412306)
(Affiliated to Savitribai Phule Pune University, Pune)

PROJECT REPORT

Submitted in partial fulfillment to the requirement for the
award of the degree in B.Sc. Computer Science. Of

**SAVITRIBAI PHULE PUNE
UNIVERSITY, PUNE**

ON

“ONLINE AGRO MANAGEMENT SYSTEM”

BY

MR. JEDHE NIKHIL M.

MR. GHADAGE ROHIT S.

MR. GADEKAR HARSHJEET M.

MR. JADHAV PRAJWAL T.

Under the Guidance of

Miss. Jagtap R. S

Miss. Kharade G.M

A PROJECT REPORT ON

**“ONLINE AGRICULTURE
MANAGEMENT SYSTEM”**

SUBMITTED TO

SAVITRIBAI PHULE PUNE UNIVERSITY

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE
AWARD OF THE DEGREE

BACHELORS OF SCIENCE (COMP. SCI.)

BY

MR. JEDHE NIKHIL M.

MR. GHADAGE ROHIT S.

MR. GADEKAR HARSHJEET M.

MR. JADHAV PRAJWAL T.

DEPT. OF COMPUTER SCIENCE



Shri someshwar shikshan prasark mandal's



SOMESHWAR SCIENCE COLLEGE

Someshwarnagar, Tal:Baramati, Dist:Pune(Pin:412306)(Affiliated to Savitribai Phule Pune University, Pune)

CERTIFICATE

This is to certify that Nikhil, Rohit, Harshjeet, Prajwal has completed the project report titled **ONLINE AGRO MANAGEMENT SYSTEM** as fulfillment of Project for Semester -VI Bachelors in Computer Science.

(Project Guide)

(HOD)

(Internal Examiner)

(External Examiner)

INDEX

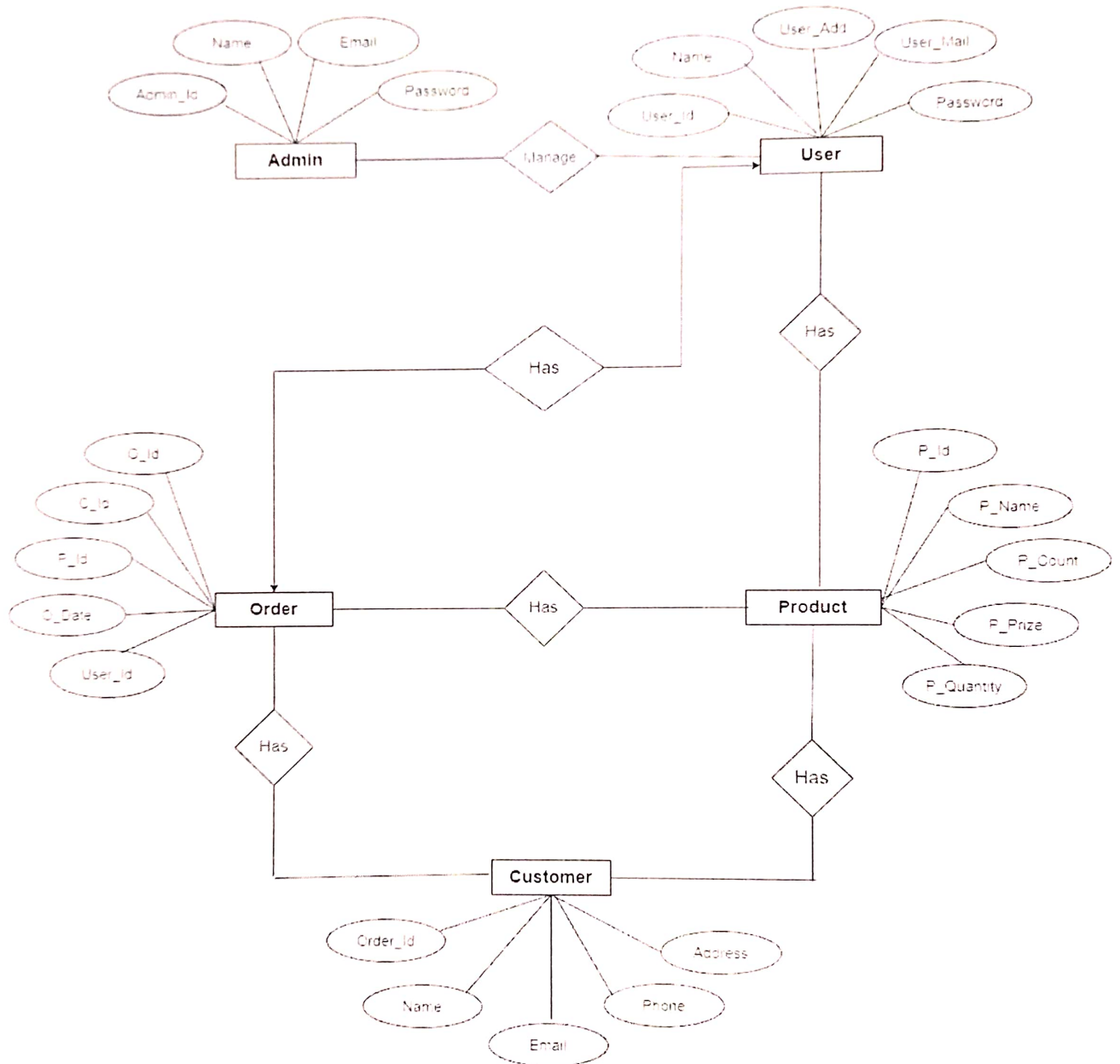
Chapter No.	Particular Name	Page No.
1	<u>Abstract</u>	
2	<u>Introduction</u> 2.1 Motivation 2.2 Problem Statement 2.3 Objective and Goals 2.4 Literature Survey 2.5 Project Scope and Limitations	
3	<u>System Analysis</u> 3.1 Existing System 3.2 Scope and Limitation of existing System 3.3 Project Perspective, Features 3.4 Stakeholders 3.5 Requirement Analysis	
4	<u>System Design</u> 4.1 ER Diagram 4.2 UML Diagram 4.3 User Interface	
5	<u>Implementation Details</u> 5.1 Software/Hardware Specification	
6	<u>Outputs and Record Testing</u>	
7	<u>Conclusion</u> and <u>Recommendation</u>	
8	<u>Future Scope</u>	
9	<u>References</u>	

1. Abstract

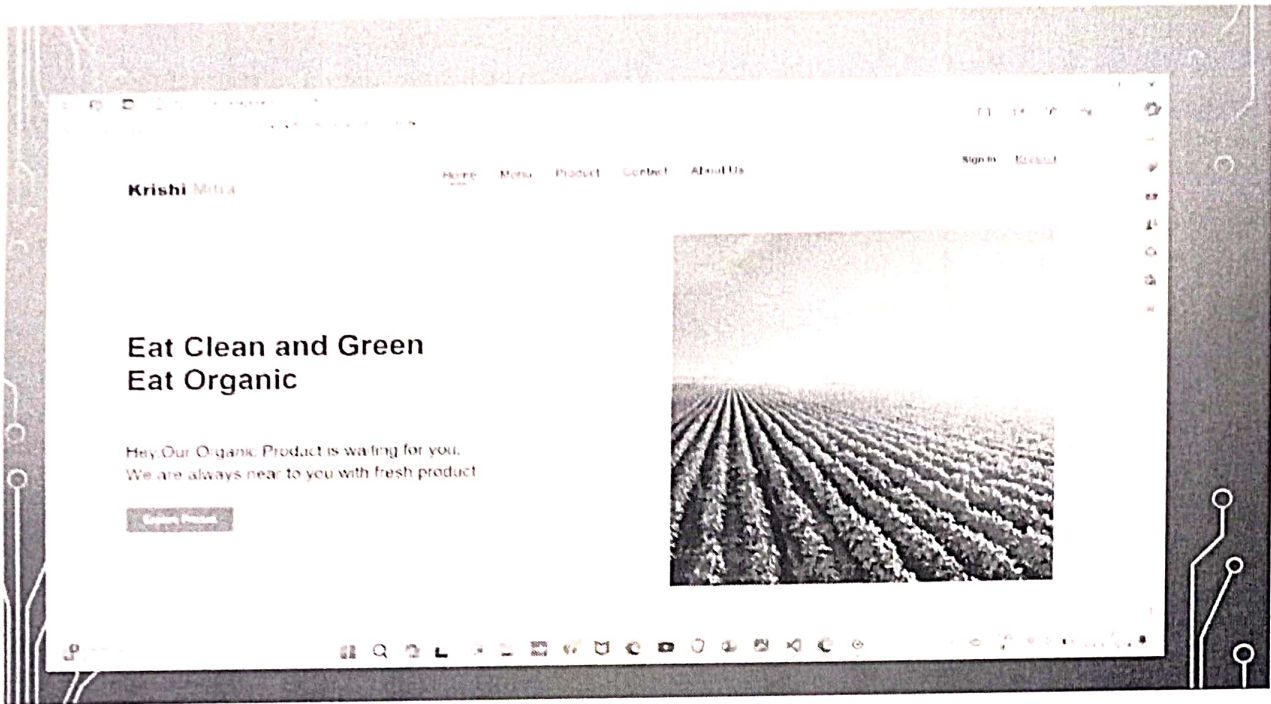
The Online Agriculture Management System (OAMS) is an innovative solution designed to revolutionize the management and distribution of agricultural products through an online platform. With the rapid expansion of e-commerce and the growing demand for fresh, locally-sourced produce, OAMS provides a vital link between farmers and consumers. The system offers farmers a user-friendly interface to showcase their products, enabling them to upload detailed descriptions, images, quantities, and prices. Consumers can then browse through a diverse range of farm-fresh goods, place orders, and make secure online payments. OAMS not only simplifies the purchasing process for consumers but also facilitates efficient inventory management and order processing for farmers. Through real-time tracking features, both farmers and consumers can monitor the status of orders, from placement to delivery. Additionally, the platform supports feedback and rating systems, allowing users to provide valuable input and enhance overall customer satisfaction. By eliminating intermediaries and connecting farmers directly with consumers, OAMS promotes transparency and fair pricing. Farmers can receive fair compensation for their products, while consumers gain access to high-quality, locally-sourced goods at competitive prices.

4.SYSTEM DESIGN

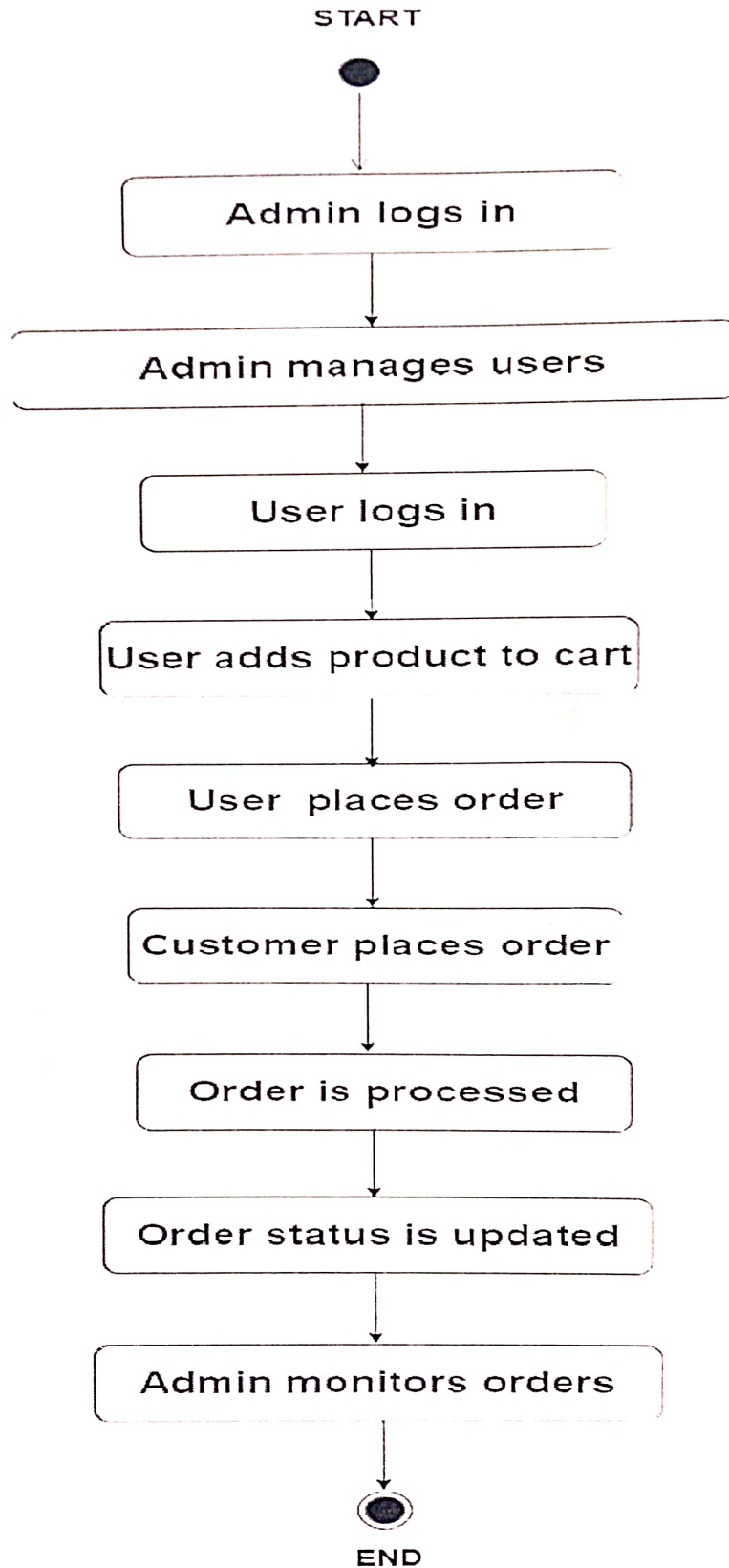
4.1 ER DIAGRAM



4.3 USER INTERFACE LANDING PAGE



4.2.5. ACTIVITY DIAGRAM





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SOMESHWAR VIDNYAN MAHAVIDYALAYA

**Someshwarnagar, Tal: Baramati, Dist:
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PROJECT REPORT

**Submitted in partial fulfillment of the requirement for
the award of the degree in B.Sc. Computer Science. Of**

**SAVITRIBAI PHULE PUNE UNIVERSITY,
PUNE**

ON

“Online Mobile Shopping System”

BY

- 1] Bagal Shubham Mahendra**
- 2] Pawar Prajakta Ramesh**

Under the Guidance of

Miss. Jagtap R. S

Miss. Kharade G. M

TY B.Sc (Computer Science)(SEM-VI) 2023-2024



Shri someshwar shikshan prasark mandal's



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Savitribai Phule Pune University, Pune)

CERTIFICATE

This is to certify that Bagal Shubham Mahendra & Pawar Prajakta Ramesh has completed the project report entitled Online Mobile Shopping System as fulfillment of Project for Semester - VI Bachelors in Computer Science.

Jaytapr's
15/04/24
(Project Guide)

Jaytapr's
15/04/24
(HOD)

V. K.
15/04/24
(Internal examiner)

Kadam
(External examiner)



Shri Someshwar Shikshan Prasarak Mandal's

SOMESHWAR VIDNYAN MAHAVIDYALAYA

**Someshwarnagar, Tal: Baramati, Dist: Pune (Pin:412306)(
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PROJECT REPORT

**Submitted in partial fulfilment to the requirement for the award
of the degree in B.Sc.Computer Science.Of**

**SAVITRIBAI PHULE PUNE
UNIVERSITY, PUNE
ON**

“VILLAGE TRANSPORTATION SYSTEM”

BY

MR. PHARANDE ADITYA R.

MR. AWATE AKSHAY S.

MR. ADSUL SANKET D.

Under the Guidance of

Miss. Jagtap R. S

Miss. Kharade G.M

A PROJECT REPORT ON

VILLAGE TRANSPORTATION SYSTEM

SUBMITTED TO

SAVITRIBAI PHULE PUNE UNIVERSITY

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE
AWARD OF THE DEGREE

BACHELORS OF SCIENCE (COMP. SCI.)

BY

MR. PHARANDE ADITYA R.

MR. AWATE AKSHAY S.

MR. ADSUL SANKET D.

DEPT. OF COMPUTER SCIENCE



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University,Pune)

CERTIFICATE

This is to certify that Aditya, Akshay, Saniket has
completed the project report entitled **VILLAGE TRANSPORTATION**
SYSTEM as fulfillment of Project for Semester -VI Bachelors in
Computer Science.


(Project Guide)


(HOD)


(Internalexaminer)


(Externalexaminer)



Shri Someshwar Shikshan Prasarak Mandal's

SOMESHWAR VIDNYAN MAHAVIDYALAYA

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PROJECT REPORT

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**SAVITRIBAI PHULE PUNE UNIVERSITY,
PUNE**

ON

“ONLINE RESUME BUILDER WEB APPLICATION”

BY

**Miss. Palange Anuja Suresh
Miss. Bhosale Kshitija Dhananjay**

Under the Guidance of

**Miss. Jagtap P. S
Miss. Kharade G. M**

TY B.Sc(Computer Science)(SEM-VI) 2023-2024



Shri someshwar shikshan prasark mandal's



SOMESHWAR SCIENCE COLLEGE

Someshwarnagar, Tal: Baramati, Dist:
Pune (Pin: 412306) (Affiliated to
Savitribai Phule Pune University, Pune)

CERTIFICATE

This istocertify that Miss Palange Anuja and Miss Bhosale Kshitija
has completed the project report entitled
Resume Builder Web Application as
fulfillment of Project for Semester - VI Bachelors in Computer
Science.

Ved
15/04/2024
(Project Guide)

Jaytapas
15/04/24
(HOD)

Ved
15/04/2024
(Internal examiner)

Shadav
(External examiner)

CERTIFICATE

B.Sc.(CS) DEGREE OF PROGRAM IN COMPUTER
SCIENCE

2023 - 2024

This is to certify that the Project Report on

“ONLINE RESUME BUILDER WEB
APPLICATION”

Submitted by

Miss. Palange Anuja Suresh

Miss. Bhosale Kshitija Dhananjay

Has successfully submitted during the academic year 2023-2024
in the partial fulfilment of B.Sc. DEGREE PROGRAM IN
COMPUTER SCIENCE under the Savitribai Phule Pune
University, Pune.

Project Guide

Head of Department

Internal Examiner

External Examiner

ONLINE RESUME BUILDER WEB APPLICATION

