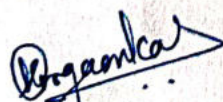



Anandibai Raorane Arts, Commerce and Science College, Vaibhavwadi  
Department of Zoology

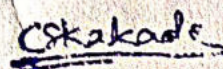


**CERTIFICATE COURSE IN ESSENTIALS IN FISHERY SCIENCE (CCEFS) 2023-24**

No. of the Activity	Zoo/2023-2024/04
Name of the Activity	Certificate course in essentials in fishery science (CCEFS)
Day and Date	06 <sup>th</sup> December, 2023 to 10 <sup>th</sup> February, 2024
Time	As per the time table
Venue	Zoology Laboratory 1
Organized by	Department of Zoology
Co-ordinator/s	Dr. D. S. Korgaonkar
Activity for College/Class/Group	Class
No. of Participants	15
Nature: Academic/Co-curricular/Extra-curricular/Extension Activity	Co-curricular
Objectives of the Activity	<ul style="list-style-type: none"> <li>➤ To nurture interest of students in the subject of fishery.</li> <li>➤ To create a skilled work force, this is capable of donning various roles in fisheries sector.</li> <li>➤ To expose students to varied avenues having potential for self – employment.</li> <li>➤ To provide basic reading material and establish sizeable share in the knowledge market.</li> </ul>
Brief information of the Activity	Fisheries sector forms an integral part of Indian economy. This sector generates ample amount of jobs, revenue, food and foreign exchange. This course was an attempt to create both awareness and interest about fisheries among students.
Expected Outcomes	This course will make students aware about this fishery sector also may develop interest in fisheries so that students may choose related courses for their further studies. Students may also come up with research, related to fisheries as Sindhudurg district is coastal district.
Feedback Analysis	Students liked the Activity.
Supporting Documents	Notice, Registration list, Attendance sheet, Marksheet, Report.

  
Teacher in charge

  
Head of the Department



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Maharana Pratapsinh Shikshan Sanstha's , Mumbai  
Anandibai Raorane Arts, Commerce and Science College, Vaibhavwadi

**Department of Zoology**  
**CERTIFICATE COURSE IN ESSENTIALS IN**  
**FISHERY SCIENCE (CCEFS)**

Duration: 3 months

Hours: 45

**Basic details:**

Fisheries sector forms an integral part of Indian economy. This sector generates ample amount of jobs, revenue, food and foreign exchange. Without fisheries sector, India would lose some of its foreign exchange. Besides that, it will also result in unemployment of traditional fishermen and employees of the industries dependent on fish processing. In short, this sector is of great importance to the country.

The course deals with the fish processing, packaging, fish products, by- products, quality control etc. this course trains students in aspects related to post- harvest processes.

**Objectives of the course:**

- To nurture interest of students in the subject of fishery.
- To create a skilled work force, this is capable of donning various roles in fisheries sector.
- To expose students to varied avenues having potential for self – employment.
- To provide basic reading material and establish sizeable share in the knowledge market.

**Unit I: Introduction to fishery**

1.1 Introduction

1.2 Historical background and Scientific Foundations

1.3 About Indian fisheries

1.4 Fish Farming – Definition, Characters of cultivable fish, Categorization of fish by their habitat, Economic importance of fish, Fishery by-products.

**Unit II: Introduction to Quality Control, fish Preservation and Processing**

2.1 a) Determining quality and freshness – Organoleptic, Microbial and Chemical test for fish and prawns

b) Spoilage Mechanism - Hypernemia, Rigor mortis, Autolysis, Rancidity

2.2 Preservation and processing - a) i) Traditional methods of icing, drying, salting & their modifications.

ii) Introduction to refrigeration, types & properties of refrigerants, types of freezers – Brine, air blast, tunnel, contact plate & cryo-quick. Freezing procedures including



Hygienic washing, dressing, PUD (Peeled & Undeveined), DV (Deveined), packaging and freezing for fishes, prawns & their products.

iii) Principle & steps involved in can reform & canning of fish & prawns in various media.

### **Unit III: Fish as Food**

3.1 a) Biochemical composition of raw fish & nutritional value of raw, preserved and Processed fish.

3.2 Fish by product: Fish protein concentrate, fish maws, ising glass, oils (body and liver), citosan, shark fin rays

3.3 Value added products: Fish/ Prawn pickle and chutney, fish wafers, surimí, imitation product, Fish soup powder, Fish /Crab steaks.

### **Unit IV: Entrepreneurship opportunities and status of research in marine science**

4.1 Procuring Finance – a) Financial Institutions and Funding Agencies

b) Schemes and basic subsidies

c) Global marketing & Export-Import procedures.

4.2 Research Institutes: NIO, CMFRI, CIFE, FSI, CIBA, AND MPED

### **Unit V - Practical**

a) Estimation of fat/lipid from fish by Folch's Method & proteins by Lowry's Method.

b) Preparation of formulated feed for fish & prawn.

c) Preparation of surimi, fish protein concentrate, fish soup powder.

d) Preparations of fish burger, fish fingers, fish/prawn pickle.

e) Identification of packaging materials.

Waxed duplex carton, Master carton, Simple cans, Coated [Lacquered] cans, Polyolefin.

### **References:**

1) A Textbook of Marine Ecology – Nair, N.B. & Thumpty, D.H., the Macmillan Book Company of India Ltd.

2) Ecological Methods for Field and Laboratory Investigations – P.Michael.

3) Course Material in Fishing Technology - Latha Shenoy, CIFE, Versova,



Mumbai.

- 4) Financial Management – Prasanna Chandra, 7th Edition.
- 5) Financial Management – Khan & Jain .
- 6) Financial Management –I .M. Pandey .
- 7) Project Management - Prasanna Chandra.
- 8) Marketing Management – Philip Kotler
- 9) For additional and latest information on the topics, various websites can be visited.
- 10) Refrigeration by Arora
- 11) Text book of fish biology and Indian Fisheries by Dr. R.P. Parihar, Central Publication House, Allhabad.

## **A course designed by-**

**Department of Zoology**

**Anandibai Raorane Arts, Commerce and Science College, Vaibhavwadi.**



CSKakade

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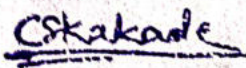
## Department of Zoology

### List of students registered for the Certificate Course in Essentials in Fishery Science 2023-24

Sr. No.	Name of the Student	Class
1	Pooja Vilas Tambe	F.Y.B.Sc.
2	Divya Anant Gurav	F.Y.B.Sc.
3	Priyanka Pradip Mer	F.Y.B.Sc.
4	Sarita Vithal Shelake	F.Y.B.Sc.
5	Karuna Krushna Lohakare	F.Y.B.Sc.
6	Siddhi Gajanan Gurav	F.Y.B.Sc.
7	Harshal Vilas Jadhav	F.Y.B.Sc.
8	Sujal Suresh Bhise	S.Y.B.Sc.
9	Rushikesh Mahesh Chavan	S. Y. B. Sc.
10	Akshay Sunil Moperkar	S. Y. B. Sc.
11	Sanika Santosh Tambe	S. Y. B. Sc.
12	Diksha Dhandas Gosavi	S. Y. B. Sc.
13	Darshan Vijayanand Kadam	S. Y. B. Sc.
14	Vaishanavi Vaibhav Pawar	S. Y. B. Sc.
15	Pankaj Dipak Chavan	S. Y. B. Sc.

  
Head



  
Principal  
ANANDIBAI RAORANE ARTS, COMMERCE  
& SCIENCE COLLEGE, VAIBHAVWADI



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Department of Zoology

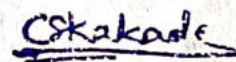
**CERTIFICATE COURSE IN ESSENTIALS IN FISHERY  
SCIENCE (CCEFS) 2023-24**

**Time- Table  
Academic Year – 2023-2024**

Time	Day			
	Tuesday	Wednesday	Thursday	Friday
2.30pm to 3.30pm	NRH	DSK	DSK	DSK



Convener



Principal

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**Department of Zoology**

**Certificate Course in Essentials in Fishery Science 2023-2024**

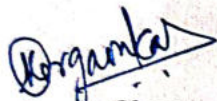
**Report**

**Venue: Department of Zoology**

Certificate course in Essentials in Fishery Science was conducted by Department of zoology of the college during the academic year 2023-2024. The period of the course was 06<sup>th</sup> December, 2023 to 10<sup>th</sup> February, 2024.

Totally 15 students were admitted from SYBSc. and FYBSc. All students appeared for the online examination.

Students found the course useful, and some decided to obtain their higher degrees in fishery related subjects. Department is also satisfied as it was successful in creating awareness and liking for fishery sector among the students.



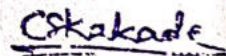
Teacher in Charge





Head of the Department

Principal



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**DEPARTMENT OF ZOOLOGY**  
**EXAM NOTICE**

**DATE: 06/02/2024**

All the students registered for certificate course are hereby informed that, Exam for the Certificate course will be conducted on 17<sup>th</sup> February, 2024 in online mode. The link for the same will be posted at 10.00 am on 17<sup>th</sup> February, 2024. The link will be open for 24 hours. The exam includes 40 MCQs 2 marks each. All questions are based on first 4 units each. Practical unit is not included in your theory exam. All have to submit report of Visit of Aquarium in Ratnagiri Study Tour till 15<sup>th</sup> February, 2024. It carries 20 marks.



Head of the Department

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# Notice

Date: 25/10/2023


All the students of SYBSc and FYBSc are informed that, certificate course in essentials in fishery science will be conducted by Department of Zoology in second term of this academic year. The course is scheduled from 06<sup>th</sup> December, 2023 to 10<sup>th</sup> February, 2024. Interested students kindly register for the course. For more details, contact department of Zoology. Details will also be displayed on departmental (Zoology) notice board very soon.

## **Instructions for the Students:**

- In this course, we will provide study material every day, you will have to read it and answer the MCQ test each day.
- You should submit the test on same day
- No previous tests will be given or shared on next day.
- Attendance for the course will be marked on submission of class test daily.
- There will be one field visit conducted.
- Final exam will be conducted after 10<sup>th</sup> April, 2023.

**For details contact:**

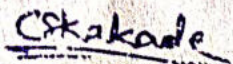
**Dr. D. S. Korgaonkar – 9423187152**



**Course Coordinator  
(Dr. D. S. Korgaonkar)**



**Head of the Department  
Mr. N. R. Hedulkar**



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Anandibai Raorane Arts, Commerce and Science College, Vaibhavwadi

## Department of Zoology

### Final Result

#### Certificate Course in Essentials in Fishery Science 2023-2024

Sr. No.	Name of the Student	Marks Obtained (80)	Field Visit (20)	Total Marks Obtained (100)
1	Pooja Vilas Tambe	76	18	94
2	Divya Anant Gurav	72	18	90
3	Priyanka Pradip Mer	78	18	96
4	Sarita Vithal Shelake	74	18	92
5	Karuna Krushna Lohakare	76	18	94
6	Siddhi Gajanan Gurav	70	16	86
7	Harshal Vilas Jadhav	74	17	91
8	Sujal Suresh Bhise	52	13	65
9	Rushikesh Mahesh Chavan	76	17	93
10	Akshay Sunil Moperkar	70	17	87
11	Sanika Santosh Tambe	72	18	90
12	Diksha Dhandas Gosavi	56	16	93
13	Darshan Vijayanand Kadam	58	12	70
14	Vaishanavi Vaibhav Pawar	54	12	66
15	Pankaj Dipak Chavan	66	14	80

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Anandibai Raorane Arts, Commerce and Science College, Vaibhavwadi  
**Department of Zoology**



Timestamp	Name of the Student	Exam seat No.
17/02/2024 10:49:05	Priyanka Pradip Mer	CCEFS41
17/02/2024 10:58:09	Harshal Vilas Jadhav	CCEFS45
17/02/2024 11:20:30	Sanika Santosh Tambe	CCEFS49
17/02/2024 11:39:34	Pooja Vilas Tambe	CCEFS39
17/02/2024 11:48:50	Siddhi Gajanan Gurav	CCEFS44
17/02/2024 12:58:07	Divya Anant Gurav	CCEFS40
17/02/2024 12:19:55	Diksha Dhandas Gosavi	CCEFS50
17/02/2024 12:14:35	Vaishanavi Vaibhav Pawar	CCEFS52
17/02/2024 12:48:02	Akshay Sunil Moperkar	CCEFS48
17/02/2024 12:41:12	Sujal Suresh Bhise	CCEFS46
17/02/2024 12:42:17	Rushikesh Mahesh Chavan	CCEFS47
17/02/2024 12:51:14	Sarita Vithal Shelake	CCEFS42
17/02/2024 13:01:56	Pankaj Dipak Chavan	CCEFS53
17/02/2024 14:33:31	Darshan Vijayanand Kadam	CCEFS51
17/02/2024 16:35:57	Karuna Krushna Lohakare	CCEFS43

*C. K. Kadam*

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Anandibai Raorane Arts, Commerce and Science College, Vaibhavwadi

**Department of Zoology**

**Exam Seat Number for Certificate Course in Essentials in Fishery Science  
2023-24**

Sr. No.	Name of the Student	Class	Seat No.
1	Pooja Vilas Tambe	F.Y.B.Sc.	CCEFS39
2	Divya Anant Gurav	F.Y.B.Sc.	CCEFS40
3	Priyanka Pradip Mer	F.Y.B.Sc.	CCEFS41
4	Sarita Vithal Shelake	F.Y.B.Sc.	CCEFS42
5	Karuna Krushna Lohakare	F.Y.B.Sc.	CCEFS43
6	Siddhi Gajanan Gurav	F.Y.B.Sc.	CCEFS44
7	Harshal Vilas Jadhav	F.Y.B.Sc.	CCEFS45
8	Sujal Suresh Bhise	S.Y.B.Sc.	CCEFS46
9	Rushikesh Mahesh Chavan	S. Y. B. Sc.	CCEFS47
10	Akshay Sunil Moperkar	S. Y. B. Sc.	CCEFS48
11	Sanika Santosh Tambe	S. Y. B. Sc.	CCEFS49
12	Diksha Dhandas Gosavi	S. Y. B. Sc.	CCEFS50
13	Darshan Vijayanand Kadam	S. Y. B. Sc.	CCEFS51
14	Vaishnavi Vaibhav Pawar	S. Y. B. Sc.	CCEFS52
15	Pankaj Dipak Chavan	S. Y. B. Sc.	CCEFS53

**Head**

**Principal**

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Anandibai Raorane Arts, Commerce and Science College, Vaibhavwadi

## Department of Zoology

Attendance Sheet

Certificate Course in Essentials in Fishery Science 2023-2024



Sr. No.	Name of the Student	Lect 1	Lect 2	Lect 3	Lect 4	Lect 5	Lect 6	Lect 7
1	Pooja Vilas Tambe	P	P	P	P	P	P	P
2	Divya Anant Gurav	P	P	P	P	P	P	P
3	Priyanka Pradip Mer	P	P	P	P	P	P	P
4	Sarita Vithal Shelake	P	P	P	P	P	P	P
5	Karuna Krushna Lohakare	P	P	P	P	P	P	P
6	Siddhi Gajanan Gurav	P	P	P	A	A	P	A
7	Harshal Vilas Jadhav	P	P	P	P	P	P	P
8	Sujal Suresh Bhise	P	A	P	P	A	P	P
9	Rushikesh Mahesh Chavan	P	P	P	A	P	P	A
10	Akshay Sunil Moperkar	P	P	A	P	P	A	A
11	Sanika Santosh Tambe	P	P	P	P	P	P	P
12	Diksha Dhandas Gosavi	P	P	A	P	A	P	A
13	Darshan Vijayanand Kadam	P	P	A	A	A	P	P
14	Vaishanavi Vaibhav Pawar	P	P	A	A	A	P	A
15	Pankaj Dipak Chavan	P	P	P	P	P	P	P

*C. Skakankar*

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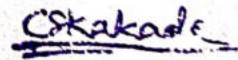
## Department of Zoology

Attendance Sheet

Certificate Course in Essentials in Fishery Science 2023-2024

Sr. No.	Name of the Student	Lect 8	Lect 9	Lect 10	Lect 11	Lect 12	Lect 13	Lect 14
1	Pooja Vilas Tambe	P	P	P	A	A	P	A
2	Divya Anant Gurav	P	A	P	P	P	P	P
3	Priyanka Pradip Mer	P	P	P	P	P	P	P
4	Sarita Vithal Shelake	P	A	A	A	P	P	P
5	Karuna Krushna Lohakare	A	P	P	P	P	P	A
6	Siddhi Gajanan Gurav	A	A	A	P	P	P	P
7	Harshal Vilas Jadhav	P	P	P	P	P	P	P
8	Sujal Suresh Bhise	A	A	P	P	P	P	P
9	Rushikesh Mahesh Chavan	A	A	A	P	P	P	A
10	Akshay Sunil Moperkar	P	P	P	P	P	A	P
11	Sanika Santosh Tambe	P	P	P	P	P	P	P
12	Diksha Dhandas Gosavi	P	P	P	A	P	P	P
13	Darshan Vijayanand Kadam	P	P	P	A	A	P	P
14	Vaishnavi Vaibhav Pawar	P	P	A	P	A	P	A
15	Pankaj Dipak Chavan	P	P	P	A	P	A	P

  
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## Department of Zoology

Attendance Sheet

Certificate Course in Essentials in Fishery Science 2023-2024

Sr. No.	Name of the Student	Lect 15	Lect 16	Lect 17	Lect 18	Lect 19	Lect 20	Lect 21
1	Pooja Vilas Tambe	P	P	P	P	P	P	P
2	Divya Anant Gurav	P	P	P	A	P	P	P
3	Priyanka Pradip Mer	P	P	P	P	P	P	P
4	Sarita Vithal Shelake	P	A	A	P	P	P	P
5	Karuna Krushna Lohakare	P	P	P	P	P	A	P
6	Siddhi Gajanan Gurav	P	A	A	P	P	P	P
7	Harshal Vilas Jadhav	P	P	P	P	P	P	P
8	Sujal Suresh Bhise	P	A	A	A	A	P	P
9	Rushikesh Mahesh Chavan	P	P	P	P	P	A	P
10	Akshay Sunil Moperkar	P	P	P	P	P	A	P
11	Sanika Santosh Tambe	P	P	P	P	P	A	P
12	Diksha Dhandas Gosavi	P	P	P	P	A	P	A
13	Darshan Vijayanand Kadam	P	P	P	A	P	P	P
14	Vaishanavi Vaibhav Pawar	A	A	A	P	P	P	P
15	Pankaj Dipak Chavan	A	P	P	P	A	A	P

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## Department of Zoology

Attendance Sheet

Certificate Course in Essentials in Fishery Science 2023-2024

Sr. No.	Name of the Student	Lect 22	Lect 23	Lect 24	Lect 25	Lect 26	Lect 27	Lect 28
1	Pooja Vilas Tambe	P	P	P	P	P	P	P
2	Divya Anant Gurav	P	P	P	P	P	P	A
3	Priyanka Pradip Mer	P	P	P	P	P	P	P
4	Sarita Vithal Shelake	P	P	P	P	P	P	P
5	Karuna Krushna Lohakare	P	P	P	P	P	A	A
6	Siddhi Gajanan Gurav	A	P	P	A	A	P	P
7	Harshal Vilas Jadhav	P	P	P	P	P	P	P
8	Sujal Suresh Bhise	P	P	P	P	A	P	A
9	Rushikesh Mahesh Chavan	P	P	P	P	P	P	P
10	Akshay Sunil Moperkar	P	P	P	P	P	P	P
11	Sanika Santosh Tambe	P	P	P	P	P	P	P
12	Diksha Dhandas Gosavi	P	P	P	P	P	P	P
13	Darshan Vijayanand Kadam	P	P	P	P	P	P	P
14	Vaishanavi Vaibhav Pawar	P	A	A	P	P	P	P
15	Pankaj Dipak Chavan	P	P	P	P	P	P	P

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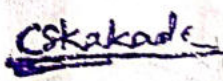
## Department of Zoology

Attendance Sheet

Certificate Course in Essentials in Fishery Science 2023-2024

Sr. No.	Name of the Student	Lect 29	Lect 30	Lect 31	Lect 32	Lect 33	Lect 34	Lect 35
1	Pooja Vilas Tambe	P	P	P	A	A	A	A
2	Divya Anant Gurav	P	A	A	P	P	P	P
3	Priyanka Pradip Mer	P	P	A	P	A	P	P
4	Sarita Vithal Shelake	P	P	A	A	A	P	P
5	Karuna Krushna Lohakare	P	P	A	A	A	A	P
6	Siddhi Gajanan Gurav	P	P	P	P	P	P	A
7	Harshal Vilas Jadhav	P	P	P	P	P	P	P
8	Sujal Suresh Bhise	P	P	A	A	P	P	A
9	Rushikesh Mahesh Chavan	A	A	P	P	A	A	P
10	Akshay Sunil Moperkar	A	P	P	P	A	A	A
11	Sanika Santosh Tambe	P	P	P	A	A	P	P
12	Diksha Dhandas Gosavi	A	A	P	P	P	P	P
13	Darshan Vijayanand Kadam	P	P	A	A	P	P	P
14	Vaishanavi Vaibhav Pawar	P	P	P	P	P	P	P
15	Pankaj Dipak Chavan	P	P	P	P	P	A	A

  
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Anandibai Raorane Arts, Commerce and Science College, Vaibhavwadi

## Department of Zoology

Attendance Sheet

Certificate Course in Essentials in Fishery Science 2023-2024

Sr. No.	Name of the Student	Lect 36	Lect 37	Lect 38	Lect 39	Lect 40	Lect 41	Lect 42
1	Pooja Vilas Tambe	P	P	P	P	P	P	P
2	Divya Anant Gurav	P	P	P	P	P	P	P
3	Priyanka Pradip Mer	P	P	P	P	P	P	P
4	Sarita Vithal Shelake	P	P	P	P	P	P	P
5	Karuna Krushna Lohakare	P	P	P	P	P	P	P
6	Siddhi Gajanan Gurav	A	A	P	P	A	P	P
7	Harshal Vilas Jadhav	P	P	P	P	P	P	P
8	Sujal Suresh Bhise	P	P	A	P	P	A	P
9	Rushikesh Mahesh Chavan	P	A	P	A	A	P	P
10	Akshay Sunil Moperkar	P	P	A	A	A	A	P
11	Sanika Santosh Tambe	P	P	P	P	P	P	P
12	Diksha Dhandas Gosavi	P	A	A	P	P	P	P
13	Darshan Vijayanand Kadam	P	P	A	P	P	A	A
14	Vaishanavi Vaibhav Pawar	P	A	A	A	A	P	P
15	Pankaj Dipak Chavan	A	P	P	P	A	A	P

HOD, Zoology

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Anandibai Raorane Arts, Commerce and Science College, Vaibhavwadi

## Department of Zoology

Attendance Sheet

Certificate Course in Essentials in Fishery Science 2023-2024



Sr. No.	Name of the Student	Lect 43	Lect 44	Lect 45	Lect 46	Lect 47	Lect 48	Lect 49
1	Pooja Vilas Tambe	P	P	A	P	P	P	P
2	Divya Anant Gurav	P	P	P	P	P	P	P
3	Priyanka Pradip Mer	P	P	P	P	P	P	P
4	Sarita Vithal Shelake	P	P	P	P	P	P	P
5	Karuna Krushna Lohakare	P	A	A	P	P	P	P
6	Siddhi Gajanan Gurav	P	A	A	A	P	P	P
7	Harshal Vilas Jadhav	P	P	P	P	P	P	P
8	Sujal Suresh Bhise	P	A	A	A	A	P	P
9	Rushikesh Mahesh Chavan	P	A	P	A	P	P	P
10	Akshay Sunil Moperkar	P	P	P	P	P	P	P
11	Sanika Santosh Tambe	P	P	P	P	P	P	P
12	Diksha Dhandas Gosavi	P	P	P	P	P	P	P
13	Darshan Vijayanand Kadam	P	P	A	A	P	P	P
14	Vaishanavi Vaibhav Pawar	P	P	P	P	P	P	A
15	Pankaj Dipak Chavan	A	A	P	A	P	A	A

  
Head



Principal  
ANANDIBAI RAORANE ARTS, COMMERCE  
& SCIENCE COLLEGE, VAIBHAVWADI