



*Research project report*

*On*

*Study of Avian Biodiversity in and around Baramati Tehsil*

*Submitted to*

***Tuljaram Chaturchand College of Arts, Science and Commerce,  
Baramati***

*(Autonomous)*

*In the partial fulfillment of the requirements for the award of  
Bachelors of Science (B.Sc.) Zoology.*

*Submitted by*

***Miss. Palange Ishwari Charudatta***

*Under the guidance of*

***Dr. Sameer Jadhav***

*Department of Zoology Tuljaram Chaturchand College  
Baramati, Dist- Pune, Maharashtra, India.*



Anekant Education Society's

Tuljaram Chaturchand College of Arts, Science and Commerce

(Autonomous) Baramati- 413102 Dist- Pune

Undergraduate Research Center

Department Of Zoology

## CERTIFICATE

Exam Seat No. 4613

This is to certify that Miss/ Mrs/ Mr. Miss. **Palange Ishwari Charudatta** of T.Y. B.Sc. semester VI has satisfactorily completed research project entitled **Study of Avian Biodiversity in and around Baramati Tehsil** for the partial fulfillment of B.Sc. Zoology Examination March/April 2024 as a part of Practical Paper ZOO3609 (Minor Research Project) and no part of this report has been submitted for any other degree or diploma during the year 2023-24.



*fadh*  
08/04/24  
Guide

Teacher in charge

*Kuram*  
10.4.24  
External Examiner

*Kuram*  
08.4.24  
Head of the Department



*Research project report*

*On*

***Study of Avian Biodiversity in and around Baramati Tehsil***

*Submitted to*

***Tuljaram Chaturchand College of Arts, Science and Commerce,  
Baramati***

*(Autonomous)*

*In the partial fulfillment of the requirements for the award of  
Bachelors of Science (B.Sc.) Zoology.*

*Submitted by*

***Miss. Rede Anita Anil***

***(T.Y.B.Sc.)***

*Under the guidance of*

***Dr. Sameer Jadhav***

*Department of Zoology*

*Tuljaram Chaturchand College*

*Baramati, Dist- Pune, Maharashtra, India.*

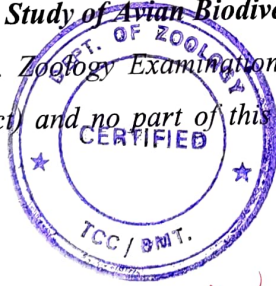


Anekant Education Society's  
TuljaramChaturchand College of Arts, Science and Commerce  
(Autonomous) Baramati- 413102 Dist- Pune  
Undergraduate Research Center  
Department of Zoology

## CERTIFICATE

Exam Seat No. 4612

This is to certify that Miss/Mrs/ Mr. **Miss. Rede Anita Anil** of T.Y. B.Sc. semester VI has satisfactorily completed research project entitled **Study of Avian Biodiversity in and around Baramati Tehsil** for the partial fulfillment of B.Sc. Zoology Examination March/April 2024 as a part of Practical Paper ZOO3609 (Minor Research Project) and no part of this report has been submitted for any other degree or diploma during the year 2023-24.



*[Signature]*  
Guide

Teacher in charge

*[Signature]*  
External Examiner

*[Signature]*  
Head of the Department





*Research project report*

*On*

***Study of Avian Biodiversity in and around Baramati Tehsil***

*Submitted to*

***Tuljaram Chaturchand College of Arts, Science and Commerce,  
Baramati***

*(Autonomous)*

*In the partial fulfillment of the requirements for the award of  
Bachelors of Science (B.Sc.) Zoology.*

*Submitted by*

***Miss. Londhe Kalyani Dagadu***

*Under the guidance of*

***Dr. Sameer Jadhav***

*Department of Zoology Tuljaram Chaturchand College  
Baramati, Dist- Pune, Maharashtra, India.*



Anekant Education Society's  
Tuljaram Chaturchand College of Arts, Science and Commerce  
(Autonomous) Baramati- 413102 Dist- Pune  
Undergraduate Research Center  
Department Of Zoology

**CERTIFICATE**

Exam Seat No. -4616

This is to certify that Miss/ Mrs/ Mr. **Miss. Londhe Kalyani dagadu** of T.Y. B.Sc. semester VI has satisfactorily completed research project entitled **Study of Avian Biodiversity in and around Baramati Tehsil** for the partial fulfillment of B.Sc. Zoology Examination, March/April 2024 as a part of Practical Paper ZOO3609 (Minor Research Project) and no part of this report has been submitted for any other degree or diploma during the year 2023-24.



  
10/04/2024  
Guide

Teacher in charge

  
10.4.24  
External Examiner

  
10.4.24  
Head of the Department

Research project report on



**“A dermatoglyphic study on relation of primary fingerprint patterns with gender and blood group”**

Submitted to

**Tuljaram Chaturchand College of Art, Science and Commerce,  
Baramati (Autonomous)**

In the partial fulfillment of the requirements for the Awards of Bachelor of Science  
(B.Sc.) Zoology

Submitted by

**Ms. Pawar Dipti Rajendra (Role number- 11703)**

Under the guidance of

**Mr. Mayur S. Shitole (Guide)**

&

**Dr. Sandip P. Chordiya (Co-guide)**

Department of Zoology, Tuljaram Chaturchand College, Baramati, Dist pune,  
Maharashtra, India,

**April 2024**

# CERTIFICATE

This is, to certify that the work incorporated in project entitled "A dermatoglyphic study on relation of primary fingerprint patterns with gender and blood group" submitted by Ms. Pawar Dipti Rajendra was carried out by the candidate under my supervision in the Department Of Zoology, Tuljaram Chaturchand College of Arts, Science And Commerce (Autonomous), Baramati-413102, Dist-Pune for the fulfillment of degree of B.Sc. Zoology.



Place:-Baramati

Guide:-Mr. Mayur Shitole

Date:- 10-4-2024

Co-guide: Dr. Sandip Chordiya

*[Handwritten Signature]*  
10.06.24

Internal Examiner

*[Handwritten Signature]*  
10.4.24

External Examiner

*[Handwritten Signature]*  
10.4.24

Head



Research project report on



**“A dermatoglyphic study on relation of primary fingerprint patterns with gender and blood group”**

Submitted to

**Tuljaram Chaturchand College of Art, Science and Commerce,  
Baramati (Autonomous)**

In the partial fulfillment of the requirements for the Awards of Bachelor of Science  
(B.Sc.) Zoology

Submitted by

**Mr. Gholave Rushikesh Anil (Role number- 11697)**

Under the guidance of

**Mr. Mayur S. Shitole (Guide)**

&

**Dr. Sandip P. Chordiya (Co-guide)**

Department of Zoology, Tuljaram Chaturchand College, Baramati, Dist pune,  
Maharashtra, India,

**April 2024**



# CERTIFICATE

This is, to certify that the work incorporated in project entitled "A dermatoglyphic study on relation of primary fingerprint patterns with gender and blood group" submitted by Mr. Gholave Rushikesh Anil was carried out by the candidate under my supervision in the Department Of Zoology, Tuljaram Chaturchand College of Arts, Science And Commerce (Autonomous), Baramati-413102, Dist-Pune for the fulfillment of degree of B.Sc. Zoology.





Place:-Baramati

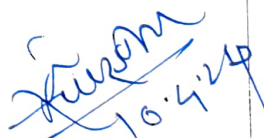
Guide:-Mr. Mayur Shitole

Date:- 10/04/2024

Co-guide: Dr. Sandip Chordiya

  
10.04.24  
Internal Examiner

  
10.4.24  
External Examiner

  
10.4.24  
Head

Research project report on



**“A dermatoglyphic study on relation of primary fingerprint patterns with  
gender and blood group”**

Submitted to

**Tuljaram Chaturchand College of Art, Science and Commerce,  
Baramati (Autonomous)**

In the partial fulfillment of the requirements for the Awards of Bachelor of Science  
(B.Sc.) Zoology

Submitted by

**Mr. Ghule Amit Bajirao (Role number- 11696)**

Under the guidance of

**Mr. Mayur S. Shitole (Guide)**

&

**Dr. Sandip P. Chordiya (Co-guide)**

Department of Zoology, Tuljaram Chaturchand College, Baramati, Dist pune,  
Maharashtra, India,

**April 2024**

## CERTIFICATE

This is, to certify that the work incorporated in project entitled "A dermatoglyphic study on relation of primary fingerprint patterns with gender and blood group" submitted by Mr. Ghule Amit Bajirao was carried out by the candidate under my supervision in the Department Of Zoology, Tuljaram Chaturchand College of Arts, Science And Commerce (Autonomous), Baramati-413102, Dist-Pune for the fulfillment of degree of BSc. Zoology.



Place:-Baramati

Guide:-Mr. Mayur Shitole

Date:- 10/04/2024

Co-guide: Dr. Sandip Chordiya

*[Signature]*  
10.04.24  
Internal Examiner

*[Signature]*  
10.4.24  
External Examiner

*[Signature]*  
10.4.24  
Head

Research project report on



**“A dermatoglyphic study on relation of primary fingerprint patterns with gender and blood group”**

Submitted to

**Tuljaram Chaturchand College of Art, Science and Commerce,  
Baramati (Autonomous)**

In the partial fulfillment of the requirements for the Awards of Bachelor of Science  
(B.Sc.) Zoology

Submitted by

**Ms. Solankar Shweta Dilip (Role number- 11699)**

Under the guidance of

**Mr. Mayur S. Shitole (Guide)**

&

**Dr. Sandip P. Chordiya (Co-guide)**

Department of Zoology, Tuljaram Chaturchand College, Baramati, Dist pune,  
Maharashtra, India,

**April 2024**



# CERTIFICATE

This is, to certify that the work incorporated in project entitled “**A dermatoglyphic study on relation of primary fingerprint patterns with gender and blood group**” submitted by Ms. Solankar Shweta Dilip was carried out by the candidate under my supervision in the Department Of Zoology, Tuljaram Chaturchand College of Arts, Science And Commerce (Autonomous), Baramati-413102, Dist-Pune for the fulfillment of degree of **B.Sc. Zoology**.



Place:-Baramati

Guide:-Mr. Mayur Shitole

*10/04/2024*

Date:- 10-4-24

Co-guide: Dr. Sandip Chordiya

*H B*  
*10.04.24*  
Internal Examiner

*Kurson*  
*10.4.24*  
External Examiner

*Kurson*  
*10.4.24*  
Head





Minor research project on

**“Study of microfauna from various freshwater bodies in and around Baramati city”**

Submitted to

Tuljaram Chaturchand College of Art, Science and Commerce

Baramati (Autonomous)

In the partial fulfilment of the requirement for the Award of Bachelor of Science

(B.Sc.) Zoology

Submitted by

Miss. Bichkule Tejaswini Nanaso (T.Y.B.Sc, Roll No. 11754)

Miss. Chavan Saurabh Sanjay (T.Y.B.Sc, Roll No. 11757)

Miss. Nalawade Anuja Appaso (T.Y.B.Sc, Roll No. 11758)

Miss. Shingade Prajakta Bhikaji (T.Y.B.Sc, Roll No. 11767)

Under the guidance of

**Mr. Yugandhar. D. Awaghade**

Assistant Professor

Department of Zoology

Tuljaram Chaturchand College, Baramati, District-Pune,

Maharashtra, India

10 April 2024

## CERTIFICATE

This is to certify that the minor project report entitled "**Study of microfauna from various freshwater bodies in and around Baramati city**" which is being submitted herewith for the award of B.Sc. in Zoology at Tuljaram Chaturchand College of Arts, Science, and Commerce, Baramati (Autonomous), affiliated with Savitribai Phule Pune University, Pune. The results incorporated in this report are the original research work carried out by **Miss. Bichkule Tejaswini Nanaso (T.Y.B.Sc , Roll No. 11754), Miss. Chavan Saurabh Sanjay (T.Y.B.Sc, Roll No. 11757), Miss. Nalawade Anuja Appaso (T.Y.B.Sc, Roll No. 11758), Miss. Shingade Prajakta Bhikaji (T.Y.B.Sc, Roll No. 11767)** under my supervision and guidance. To the best of my knowledge and belief, the work embodied in this report has not been submitted earlier for the award of any degree or similar title from this or any other university or examining body.

Project Guide

*[Signature]*  
10/04/2024.



*[Signature]*  
10.4.24  
Head  
Department of Zoology

*[Signature]*  
10.04.24  
Internal Examiner

*[Signature]*  
10.4.24  
External Examiner



# **“Study of Physicochemical properties of water from Baramati and Songaon water bodies”**

**A PROJECT REPORT SUBMITTED**

**TO**

**DEPARTMENT OF ZOOLOGY**

**TULJARAM CHATURCHAND COLLEGE,**

**BARAMATI (AUTONOMOUS)**

**FOR THE PARTIAL FULFILMENT**

**B.Sc. IN ZOOLOGY**

**BY**

**Priyanka Khandale- Roll. No- 11730**

**Soham Salunke- Roll.No- 11709**

**Swapnil Kadam- Roll. No- 11710**

**Rohan Khatake: Roll. No- 11728**

**UNDER THE GUIDENCE OF**

**PROF: S.K. JAMBLE**

**U.G. DEPARTMENT OF ZOOLOGY**

**TULJARAM CHATURCHAND COLLEGE**

**BARAMATI**

**YEAR – 2023-24**



## CERTIFICATE

This is to certify that the project entitled “**Study of Physicochemical properties of water from Baramati and Songaon water bodies.**”. Submitted by Priyanka Navnath Khandale, Swapnil Sunil Kadam, Soham Sanjay Salunke, Rohan Dattatraya Khatake for the award of B.Sc. degree in Zoology of Savitribai Phule Pune University. They have worked under my supervision and her work is original.

Date – 10/4/2024  
Place – Baramati



*S.K. Jamble*  
10/4/24  
Ms. Jamble. S.K.

(PROJECT GUIDE)

*S.P. Chordiya*  
10/4/24

Dr. Chordiya. S.P.

(HEAD OF DEPARTMENT)

*J.P.*  
10.4.24  
INTERNAL EXAMINER

EXTERNAL EXAMINER



**“PHORETIC MITES ASSOCIATED WITH INSECTS”**



**Tuljaram Chaturchand College of Baramati**

In the partial Fulfilment of Requirement for the Degree of

**Bachelor of Science In ZOOLOGY**

In the faculty of science

By

**Miss. Nikhale Sanika Shahaji**

**Under the Guidance of**

Dr. D.M. Sangale

Co-Guide

Dr. S.P. Chordiya

**DEPARTMENT OF ZOOLOGY**

**TULJARAM CHATURCHAND COLLEGE, BARAMATI (AUTONOMOUS)**





## CERTIFICATE

This is to certify that **MISS. Sanika Shahaji Nikhale** is a B.Sc. final year student has carried out his B.Sc. Dissertation entitled **“Phoretic Mites Associated with Insects”** as a part of partial fulfillment for the degree of **BACHELOR OF SCIENCE IN ZOOLOGY** under my supervision in the Department of Zoology, Tuljaram Chaturchand College of Baramati.



Dr.D.M. Sangale

Project Guide



Dr.S.P. Chordiya

Co- guide



Dr.S.P. Chordiya

Head



Examiner



Date - 10/04/2024

Place-Baramati

Research project report on



**“A dermatoglyphic study on relation of primary fingerprint patterns with gender and blood group”**

Submitted to

**Tuljaram Chaturchand College of Art, Science and Commerce,  
Baramati (Autonomous)**

In the partial fulfillment of the requirements for the Awards of Bachelor of Science  
(B.Sc.) Zoology

Submitted by

**Ms. Dange Muskan Raju (Role number- 11704)**

Under the guidance of

**Mr. Mayur S. Shitole (Guide)**

&

**Dr. Sandip P. Chordiya (Co-guide)**

Department of Zoology, Tuljaram Chaturchand College, Baramati, Dist pune,  
Maharashtra, India,

**April 2024**

# CERTIFICATE

This is, to certify that the work incorporated in project entitled "A dermatoglyphic study on relation of primary fingerprint patterns with gender and blood group" submitted by Ms. Dange Muskan Raju was carried out by the candidate under my supervision in the Department Of Zoology, Tuljaram Chaturchand College of Arts, Science And Commerce (Autonomous), Baramati-413102, Dist-Pune for the fulfillment of degree of B.Sc. Zoology.



Place:-Baramati

Guide:-Mr. Mayur Shitole

Date:- 10.4.2024

Co-guide: Dr. Sandip Chordiya

  
Internal Examiner

  
External Examiner

  
Head

**“EVALUATION MOSQUITO LARVICIDAL EFFECT OF *Alstonia  
Scholaris* LEAF EXTRACT”**

**A PROJECT REPORT SUBMITTED  
TO**

**DEPARTMENT OF ZOOLOGY,  
TULJARAM CHATURHAND COLLEGE,  
BARAMATI (AUTONOMOUS)**

**FOR THE PARTIAL FULFILLMENT  
B.Sc. IN ZOOLOGY**

**BY  
Miss. Swapnali Vijaykumar Raut  
Mr. Mangesh Namdev Hole  
Mr. Nilesh Kantilal Jadhav**

**T. Y. B. Sc.**

**Exam Seat No. 4747  
Exam Seat No. 4741  
Exam Seat No. 4697**

**UNDER THE GUIDANCE OF**

**PROF. KISHOR UTTAM MORE**

**U.G. DEPARTMENT OF ZOOLOGY,  
TULJARAM CHATURHAND COLLEGE  
BARAMATI**

**March-2024**





## CERTIFICATE

This is to certify that the project entitled "EVALUATION MOSQUITO LARVICIDAL EFFECT OF *Alstonia Scholaris* LEAF EXTRACT" Submitted by Miss. Swapnali Vijaykumar Raut, Mr. Mangesh Namdev Hole, Mr. Nilesh Kantilal Jadhav for the award of T. Y. B.Sc. degree in Zoology of Savitribai Phule Pune University. They has worked under my supervision and their work is original.

Date: 10-4-24

Place: Baramati



ASST. PROF. MORE K. U.

(PROJECT GUIDE)

DR. CHORDIYA S. P.

(HEAD OF DEPARTMENT)

EXTERNAL EXAMINAR



**STUDY OF DIVERSITY OF SNAKE IN SELECTED AREA  
BARAMATI AND NEARBY REGION OF PUNE DISTRICT,  
MAHARASHTRA**



A Project Report Submitted To



**DEPARTMENT OF ZOOLOGY,  
TULJARAM CHATURCHAND COLLEGE,  
BARAMATI(AUTONOMOUS)**

**FOR THE PARTIAL FULFILMENT**

**T.Y.B.SC IN ZOOLOGY**

**Submitted By**

**MISS. KAUSAR ASIF TAMBOLI**

Roll no.11542

Exam seat no. 4643

UNDER THE GUIDANCE OF

**Dr. SANGALE D.M.**

**U.G. DEPARTMENT OF ZOOLOGY,  
TULJARAM CHATURCHAND COLLEGE BARAMATI**

**MARCH 2024**

## CERTIFICATE

This is to certify that, the project report entitled "STUDY OF DIVERSITY OF SNAKE IN SELECTED AREA BARAMATI AND NEARBY REGION OF PUNE DISTRICT, MAHARASHTRA" which is being submitted herewith for the award of T.Y.Sc. in Zoology of Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati (Autonomous) affiliated to Savitribai Phule Pune University, Pune. The results incorporated in this report are of the original research work carried out by Miss. Kausar Asif Tamboli under my supervision and guidance and to the best of my knowledge and belief, the work embodied in this report has not formed earlier for the award of any degree or similar title of this or any other University or examining body.



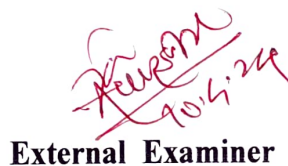
Dr. Deepali sangale

(Project Guide)



Prof. Chordiya S.P.

(H.O.D.)



External Examiner



*Research project report*

*On*

***To estimate the contains of the packaged milk and its comparison with printed values on the packet.***

*Submitted to*

***Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati***

*(Autonomous)*

*In the partial fulfillment of the requirements for the award of*

*Bachelors of Science (B.Sc.) Zoology.*

*Submitted by*

***Miss. Sukanya Salunke (T.Y.B.Sc.)***

*Under the guidance of*

***Dr. Deepali Sangale***

*Department of Zoology Tuljaram Chaturchand College*

*Baramati, Dist- Pune, Maharashtra, India*



Aneka Education Society's  
Tuljaram Chaturchand College of Arts, Science and Commerce  
(Autonomous) Baramati- 413102 Dist- Pune  
Undergraduate Research Center  
Department Of Zoology

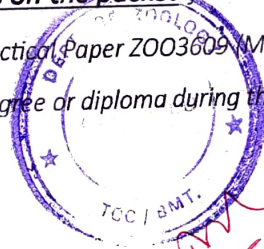
## CERTIFICATE

Exam Seat No. 4626

This is to certify that Miss/Mrs/Mr. Sukanya Sunil Salunke of T.Y. B.Sc. semester VI has satisfactorily completed research project entitled To estimate the contains of the packaged milk and its comparison with printed values on the packet for the partial fulfillment of B.Sc. Zoology Examination March/April ( 2024 ) as a part of Practical (Paper ZOO3609 - Minor Research Project) and no part of this report has been submitted for any other degree or diploma during the year 2023-24.

Omangale

Guide



Sukanya  
10/4/24  
External Examiner

Sukanya  
10/4/24  
Head of the Department



**“TO STUDY THE DIVERSITY OF BUTTERFLY FROM BARAMATI CITY”**

**A PROJECT REPORT SUBMITTED TO**

**TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE & COMMERCE,  
BARAMATI. (AUTONOMOUS)**



**FOR THE PARTIAL FULFILMENT OF**

**B.Sc. IN ZOOLOGY**

**BY**

**MR. HARSHAL SURESH SASTE (T. Y. B. Sc.) 4711**

**MR. TUSHAR GORAKH MORE (T. Y. B. Sc) 4717**

**MISS. POOJA DADARAM GAWADE (T. Y. B. Sc) 4723**

**MR. VIRAJ DATTATRAY KHALATE (T. Y. B. Sc) 4724**

**UNDER THE GUIDANCE OF**

**Mr. S. D. KARE**

**Assistant Professor**

**U.G. DEPARTMENT OF ZOOLOGY,  
TULJARAM CHATURCHAND COLLEGE, BARAMATI.  
(AUTONOMOUS)**

**MARCH /APRIL- 2023-24**



## CERTIFICATE

This is to certify that the project report "To study the diversity of butterfly from Baramati city" which is being submitted here with for the award of the B.Sc. in Zoology of Tuljaram Chaturchand College of Arts, Science & Commerce Baramati (Autonomous) is the result of the original research work completed by Miss. Gawade Pooja, Mr.harshal saste, Mr.Tushar More, Mr.Viraj Khalate under my supervision and guidance and to the best of my knowledge and belief the work embodied in this report has not formed earlier the basis for the award of any Degree or Similar title of this or any other University or examining body.



*S.D. Kare*  
10-04-24  
Project Guide  
(Mr. S. D. Kare)

*H.P. B.*  
10.04.24  
Internal Examiner

*Tushar More*  
10-4-24  
External Examiner

*S.P. Chordiya*  
10-4-24  
Head of Department  
(Dr. S. P. Chordiya)

Date: 10-4-24

Place: Baramati



*Research project report*

*On*

***Study of distribution of ABO Blood group, Rhesus factor and Hemoglobin among students and their correlation with age, sex, weight.***

*Submitted to*

***Tuljaram Chaturchand College of Arts, Science and Commerce,  
Baramati***

*(Autonomous)*

*In the partial fulfillment of the requirements for the award of  
Bachelors of Science (B.Sc.) Zoology.*

*Submitted by*

***Miss. Khushbu Oswal (T.Y.B.Sc.)***

*Under the guidance of*

***Dr. Sameer Jadhav***

*Department of Zoology Tuljaram Chaturchand College*

*Baramati, Dist- Pune, Maharashtra, India.*



Anekant Education Society's  
Tuljaram Chaturchand College of Arts, Science and Commerce  
(Autonomous) Baramati- 413102 Dist- Pune  
Undergraduate Research Center  
**Department Of Zoology**

## **CERTIFICATE**

Exam Seat No. 4682

This is to certify that Miss/ ~~Mrs~~/ ~~Mr~~. **Khushbu Manoj Oswal** of T.Y. B.Sc. semester VI has satisfactorily completed research project entitled "**Study of distribution of ABO blood group, Rh factor and hemoglobin amongst students and their correlation with age, sex, weight.**" for the partial fulfillment of B.Sc. Zoology Examination March/April (2024) as a part of Practical Paper Z003609 (Minor Research Project) and no part of this report has been submitted for any other degree or diploma during the year 2023-24.

  
08/04/24  
Guide

Teacher in charge

  
10.4.24  
External Examiner



  
Head of the Department

Department of Zoology  
Tuljaram Chaturchand College  
Baramati, (Dist. Pune)

2 | Page



Dept. Copy

**STUDY OF PROTEIN, FAT AND CARBOHYDRATE CONETNT FROM MILK  
SAMPLE OF DIFFERENT CATTLE BREED OF BARAMATI AREA.**

**A PROJECT REPORT SUBMITTED TO  
TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE & COMMERCE,  
BARAMATI. (AUTONOMOUS)**



**FOR THE PARTIAL FULFILMENT OF  
B.Sc. IN ZOOLOGY**

**BY**

**MR. SURAVASE ANIKET BALASAHEB (SEAT NO: 4636)**

**MS. GAIKWAD ANKITA RAKESH (SEAT NO: 4680)**

**MR. SHINDE YASH VIJAY (SEAT NO: 4702)**

**UNDER THE GUIDANCE OF**

**Ms. SHARVARI SHAH**

**U.G. DEPARTMENT OF ZOOLOGY,  
TULJARAM CHATURCHAND COLLEGE, BARAMATI. (AUTONOMOUS)**

**March 2023-24**



### CERTIFICATE

This is to certify that the project report "Study of Protein, Fat and Carbohydrate content from milk sample of different cattle breed of Baramati area." which is being submitted herewith for the award of the T.Y.B.Sc. in Zoology of **Tuljaram Chaturchand College, Baramati. (Autonomous)** is the result of the original research work completed by **Mr. Suravase Aniket Balasaheb, Ms. Gaikwad Ankita Rakesh, Mr. Shinde Yash Vijay** under my supervision and guidance and to the best of my knowledge and belief the work embodied in this report has not formed earlier the basis for the award of any Degree or Similar title of this or any other University or examining body.



*WWS*  
*10/04/24*  
**Project Guide**  
(Ms. Sharvari Shah)

*Krupam*  
*10-4-24*  
**Examiner**

*Krupam*  
*10-4-24*  
**Head,**  
Department of Zoology,  
T. C. College, Baramati

Dept Copy Exam seat no :- 4627.

Research project report on



**“A dermatoglyphic study on relation of primary fingerprint patterns with  
gender and blood group”**

Submitted to

**Tuljaram Chaturchand College of Art, Science and Commerce,  
Baramati (Autonomous)**

In the partial fulfillment of the requirements for the Awards of Bachelor of Science  
(B.Sc.) Zoology

Submitted by

**Ms. Sabale Pradnya Rajesh (Role number- 11698)**

Under the guidance of

**Mr. Mayur S. Shitole (Guide)**

&

**Dr. Sandip P. Chordiya (Co-guide)**

Department of Zoology, Tuljaram Chaturchand College, Baramati, Dist pune,  
Maharashtra, India,

**April 2024**

# CERTIFICATE

This is, to certify that the work incorporated in project entitled "A dermatoglyphic study on relation of primary fingerprint patterns with gender and blood group" submitted by **Ms. Sabale Pradnya Rajesh** was carried out by the candidate under my supervision in the Department Of Zoology, Tuljaram Chaturchand College of Arts, Science And Commerce (Autonomous), Baramati-413102, Dist-Pune for the fulfillment of degree of **B.Sc. Zoology.**



Place:-Baramati

Guide:-Mr. Mayur Shitole

*[Signature]*  
10/04/2024

Date:- 10-4-2024

Co-guide: Dr. Sandip Chordiya

*[Signature]*  
10.04.24  
Internal Examiner

*[Signature]*  
10.4.24  
External Examiner

*[Signature]*  
10.4.24  
Head





*Research project report*

*On*

*Study of Avian Biodiversity in and around Baramati Tehsil*

*Submitted to*

*Tuljaram Chaturchand College of Arts, Science and Commerce,  
Baramati*

*(Autonomous)*

*In the partial fulfillment of the requirements for the award of  
Bachelors of Science (B.Sc.) Zoology.*

*Submitted by*

*Miss. Dhainje Neha (T.Y.B.Sc.)*

*Miss. Dhainje Nikita (T.Y.B.Sc.)*

*Under the guidance of*

*Dr. Sameer Jadhav*

*Department of Zoology Tuljaram Chatruchand College*

*Baramati, Dist- Pune, Maharashtra, India.*



Anekant Education Society's  
**Tuljaram Chaturchand College of Arts, Science and Commerce**  
 (Autonomous) Baramati- 413102 Dist- Pune  
 Undergraduate Research Center  
**Department Of Zoology**

## Certificate

Exam Seat No. 4630

This is to certify that Miss/ Mrs/ Mr. **Miss. Dhainje Neha & Dhainje Nikita** of T.Y. B.Sc. semester VI has satisfactorily completed research project entitled **Study of Avian Biodiversity in and around Baramati Tehsil**

for the partial fulfillment of B.Sc. Zoology Examination March/April 2024 as a part of Practical Paper Z003609 (Minor Research Project) and no part of this report has been submitted for any other degree or diploma during the year 2023-24.



*factu*  
 08/04/24  
 Guide

Teacher in charge

*Kulom*

External Examiner

*Kulom*  
 08.4.24  
 Head of the  
 Department

Department



Minor research project on

**“Study of microfauna from various freshwater bodies in and around Baramati city”**

Submitted to

**Tuljaram Chaturchand College of Art, Science and Commerce**

**Baramati (Autonomous)**

In the partial fulfilment of the requirement for the Award of Bachelor of Science

**(B.Sc.) Zoology**

Submitted by

**Mr. Saurabh Sanjay Chavan (Roll 11757)**

**TY B.Sc**

Under the guidance of

**Mr. Yugandhar. D. Awaghade**

**Assistant Professor**

**Department of Zoology**

**Tuljaram Chaturchand College, Baramati, District-Pune,**

**Maharashtra, India**

10 April 2024

# CERTIFICATE

This is to certify that the minor project report entitled "**Study of microfauna from various freshwater bodies in and around Baramati city**" which is being submitted herewith for the award of B.Sc. in Zoology at Tuljaram Chaturchand College of Arts, Science, and Commerce, Baramati (Autonomous), affiliated with Savitribai Phule Pune University, Pune. The results incorporated in this report are the original research work carried out by **Mr. Chavan Saurabh Sanjay** under my supervision and guidance. To the best of my knowledge and belief, the work embodied in this report has not been submitted earlier for the award of any degree or similar title from this or any other university or examining body.

*Neel*  
08/04/2024  
Project Guide

*Kuram*  
09.4.24  
Head  
Department of Zoology

*APR*  
10.04.24  
Internal Examiner



*Kuram*  
10.4.24  
External Examiner



**“ STUDY OF BIODIVERSITY OF SNAKES IN  
MALSHIRAS REGION OF SOLAPUR DISTRICT,  
MAHARASHTRA”  
A PROJECT REPORT SUBMITTED  
TO  
DEPARTMENT OF ZOOLOGY,  
TULJARAM CHATURCHAND COLLEGE,  
BARAMATI (AUTONOMOUS)**



**FOR THE PARTIAL FULFILMENT**

**TY B.Sc. IN ZOOLOGY**

**BY**

**MISS. BORATE KRANTI**

**HARIDAS UNDER THE**

**GUIDANCE OF**

**Dr. SANGALE D. M.**

**U.G. DEPARTMENT OF ZOOLOGY,  
TULJARAM CHATURCHAND COLLEGE BARAMATI**

**MARCH 2024**



## CERTIFICATE

This is to certify that, the project report entitled“ **Study of Biodiversity of Snakes in Malshiras region of Solapur District, Maharashtra**” which is being submitted here with for the award of TY.B.Sc. in Zoology of Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati (Autonomous) affiliated to Savitribai Phule Pune University, Pune. The results incorporated in this report are of the original research work carried out by Miss. Borate Kranti Haridas under my supervision and guidance and to the best of my knowledge and belief, the work embodied in this report has not formed earlier for the award of any degree or similar title of this or any other University or examining body.

*Dr. Deepali Sangale*

**Dr. Deepali Sangale**

**Project Guide**



*Prof. S.P. Chordiya*  
10.4.24

**Prof. S.P. Chordiya**

**H.O.D**

*External Examiner*  
10.4.24

**External Examiner**

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ANEKANT EDUCATION SOCIETY' S  
**TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE AND  
COMMERCE,  
BARAMATI  
(AUTONOMOUS)**  
A PROJECT REPORT ON  
**“COMPARATIVE DEMOGRAPHICS BETWEEN BREAST AND  
UTERINE CANCER FROM PUNE AND SOLAPUR DISTRICT”**

Submitted by

**JADHAV JYOTI MAHADEV**

**ROLL NO. 11553**

**In fulfillment of T.Y.B.Sc.(Zoology) project**

**During the academic year 2023-24**

Under the Guidance of

**Dr. Deepali.M.Sangale**



ANEKANT EDUCATION SOCIETY'S

**TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE AND  
COMMERCE BARAMATI,**

**(AUTONOMOUS)**

**DEPARTMENT OF ZOOLOGY**

**CERTIFICATE**

This is to certified that **Miss. Jadhav Jyoti Mahadev.**

Exam Seat No. **4634**

Of T.Y.B.Sc (Zoology) has satisfactorily completed the project titled "**Comparative demographics between breast and uterine cancer from Pune and Solapur district**".

As a partial fulfillment towards zoology project paper (ZOO-3609) for the academic

year **2023-24.**

**Dr. Deepali.Sangale**

**Project Guide**

**Dr. V.B.Nale**

**Project CO-Guide**

**Dr. S.P.Chordiya**

**Head of Zoology Department**

**External Examiner**



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**“EVALUATION OF POTENTIAL OF VERMIWASH AS SEED  
GERMINATION ENHANCER”**

**A PROJECT REPORT SUBMITTED**

**TO**

**DEPARTMENT OF ZOOLOGY,  
TULJARAM CHATURCHAND COLLEGE,  
BARAMATI (AUTONOMOUS)**

**FOR THE PARTIAL FULFILMENT**

**B.Sc. IN ZOOLOGY**

**BY**

**MISS. ADHAV KAJAL HANUMANT  
MISS. KOPNAR NIKITA NAVNATH  
MISS. KOKIL GAYATRI ASHOK**

**T. Y. B. Sc.  
Exam Seat No. 4721  
Exam Seat No. 4716  
Exam Seat No. 4650**

**UNDER THE GUIDANCE OF  
PROF. KISHOR UTTAM MORE**

**U.G. DEPARTMENT OF ZOOLOGY,  
TULJARAM CHATURCHAND COLLEGE  
BARAMATI**

**March-2024**



## CERTIFICATE

This is to certify that the project entitled “EVALUATION OF POTENTIAL OF VERMIWASH AS SEED GERMINATION ENHANCER” Submitted by Miss. Kajal Hanumant Adhav, Kopnar Nikita Navnath and Kokil Gayatri Ashok for the award of T. Y. B. Sc. degree in Zoology of Savitribai Phule Pune University. She has worked under my supervision and her work is original.

Date:

Place: Baramati



ASST. PROF. MORE K. U.

(PROJECT GUIDE)

DR. CHORDIYA S. P.

(HEAD OF DEPARTMENT)