



**MARATHA VIDYA PRASARAK SAMAJ, NASHIK**

G.M.D. ARTS, B.W. COMMERCE AND SCIENCE  
COLLEGE, SINNAR, TAL-SINNAR, DIST-NASHIK - 422103

# **CERTIFICATE**

**DEPARTMENT OF ZOOLOGY**

**This is to certify that the work incorporated in the project entitled**

## **Study Of Insects**

Was satisfactorily carried out by **Miss. Avhad Monika Bhausahab** of B.Sc. **Zoology**. He has completed this project under my supervision and guidance during **Academic Year 2022-2023**. This project work submitted by his original and the scientific information obtain from other sources have been duly acknowledged.

  
Prof. Varpe Sir

(Project Guide)

Prof. Pekhale Sir

HoD

  
13/05/2023



G.M.D.Arts,B.W.Commerce and Science College  
Sinnar,Nashik.

DEPARTMENT OF ZOOLOGY

**CERTIFICATE**

CERTIFICATE . This is to certify that this project report "Study Of Agricultural pests" is the bonfire work of "Mr. sanket manikrao shinde" of M.Sc.II during the academic year 2022-2023 who carried the project work under my supervision .

PROJECT GUIDE

*Miss. bhamare mam*

Department of Zoology

*Prof .S.T. Pekhale*

INTERNAL EXAMINER

EXTERNAL EXAMINER



**MARATHA VIDYA PRASARK SAMAJ, NASHIK**  
**G.M.D. ARTS, B.W. COMMERCE AND SCIENCE COLLEGE,**  
**SINNAR**

Examination Seat No: -----

## Certificate


This is to Certified that the project report

" \_\_\_\_\_ " 9

Has been carried out in our premises by-

**Barke Priyanka Shankar**

Under my guidance in partial fulfillment of the requirement for  
 Third Year of B.Sc. during the academic year 2022-23

  
**Prof. S.T.Pekhale**  
 Guide Teacher  
 Department of Zoology

  
 Internal Examiner

  
**Prof. S.T.Pekhale**  
 Head of Department  
 Department of Zoology

DEPARTMENT OF ZOOLOGY  
 G.M.D. Arts, B.W. Commerce  
 and Science College, Sinnar  
 External Examiner



**MARATHA VIDYA PRASARK SAMAJ, NASHIK**  
**G.M.D. ARTS, B.W. COMMERCE AND SCIENCE COLLEGE,**  
**SINNAR**

Examination Seat No: -----

## Certificate

This is to Certified that the project report

" Bhosale Payal Rajendra. "

Has been carried out in our premises by-

Under my guidance in partial fulfillment of the requirement for  
Third Year of B.Sc. during the academic year 2022-23

*Arati Tidame*  
10/05/2023  
Prof. Arati Tidame  
Guide Teacher  
Department of Zoology

*Arati Tidame*  
10/05/2023  
Internal Examiner

*C.S.T. Pekhale*  
Prof. C.S.T. Pekhale  
Head of Department  
Department of Zoology  
DEPARTMENT OF ZOOLOGY  
G.M.D. Arts, B.W. Commerce  
and Science College, Sinnar

*Arati Tidame*  
10/05/2023  
External Examiner



Maratha Vidya Prasarak Samaj, Nashik

G.M.D. Arts, B.W. Commerce and Science College, Sinnar

Examination Seat No: —

## Certificate

This is to Certified that the project report  
" Poultry Farming. "  
Has been carried out in our premises by-

Under my guidance in partial fulfillment of the requirement for  
Third Year of B.Sc. during the academic year 2021-22

Prof. Pekhale sir  
Guide Teacher  
Department of ZOOLOGY

Prof. S.T. Pekale  
Head of Department  
Department of ZOOLOGY  
G.M.D. Arts, B.W. Commerce  
and Science College, Sinnar

Chitambar  
Internal Examiner

External Examiner

# SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE



MARATHA VIDYA PRASARAK SAMAJ, NASHIK



G.M.D.ARTS, B.W.COMMERCE AND SCIENCE  
COLLEGE, SINNAR, TAL-SINNAR, DIST-NASHIK

## CERTIFICATE

This is to certify that the work incorporated in the  
Dissertation entitled

### STUDY OF DIFFERENT TYPES OF WINGS OF INSECT

Was satisfactorily carried out by **M.S.JADHAV ANUJA ASHOK**  
of **BSc-ZOOLOGY**. She has completed this project under my supervision  
and Guidance during **YEAR-2022-23**. This project work submitted by, her is  
original and the scientific information obtain from other sources have, been duly  
acknowledged.

Prof.Chandore sir.  
(Project Guide).

*H.L. 13.05.23*  
Examiner

Prof.S.T. Pekhale  
(HOD)



**MARATHA VIDYA PRASARAK SAMAJ, NASHIK**

G.N.D. ARTS, B.W. COMMERCE AND SCIENCE  
COLLEGE, SINNAR, TAL-SINNAR, DIST-NASHIK - 422103

## **CERTIFICATE**

**DEPARTMENT OF ZOOLOGY**

**This is to certify that the work incorporated in the project entitled**

**“Study Of Honeybees”**

Was satisfactorily carried out by **Miss. Gavali Prerna Vijay** of B.Sc. **Zoology**. He has completed this project under my supervision and guidance during **Academic Year 2022-2023**. This project work submitted by his original and the scientific information obtain from other sources have been duly acknowledged.

  
Prof. Mr. Varpe Sir

(Project Guide)

Prof.Pekhale Sir

HoD



# GMD ARTS BW COMMARCE AND SCIENCE COLLAGGE SINNNAR

## CERTIFICATE

THIS IS TO CERTIFY THAT THE PROJECT REPORT

NAME - GHULE SURABHEE PRAKASH

STD - TYBSC (ZOOLOGY)

SUB - ZOOLOGY

TOPIC - POISONOUS AND NON POISONOUS SNAKES

UNDER MY GUIDENCE IN PARTIAL FULFILMENT OF THE REQUIREMENT OF THIRD YEAR BSC DURING THE  
ACADMIC YEAR 2022-23

PROF Varpe Sir.

GUIDE TEACHER

DEPARTMENT OF ZOOLOGY

INTERNAL EXAM

*H.P. S. 05.05*

PROF Pekhale Sir.

HEAD OF DEPARTMENT

DEPARTMENT OF ZOOLOGY

EXTERNAL EXAM

*H.P. S. 05.05*





**MARATHA VIDYA PRASARAK SAMAJ, NASHIK**

G.M.D. ARTS, B.W. COMMERCE AND SCIENCE  
COLLEGE, SINNAR, TAL-SINNAR, DIST-NASHIK - 422103

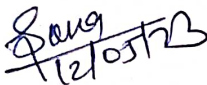
## CERTIFICATE

DEPARTMENT OF ZOOLOGY

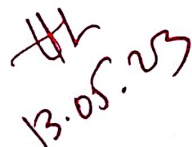
This is to certify that the work incorporated in the project entitled

### **Beneficial Insects**

Was satisfactorily carried out by Miss. Gite Madhuri Dattatray of B.Sc. Zoology. He has completed this project under my supervision and guidance during Academic Year 2022-2023. This project work submitted by his original and the scientific information obtain from other sources have been duly acknowledged.

  
Miss. Bhamare Mam

(Project Guide)

  
13.05.23

  
Prof. Pekhale Sir  
HEAD

DEPARTMENT OF ZOOLOGY  
G.M.D. Arts, B.W. Commerce  
and Science College, Sinnar



**MARATHA VIDYA PRASARAK SAMAJ, NASHIK**

**G.M.D. ARTS, B.W. COMMERCE AND SCIENCE  
COLLEGE, SINNAR, TAL-SINNAR, DIST-NASHIK - 422103**

# **CERTIFICATE**

**DEPARTMENT OF ZOOLOGY**

**This is to certify that the work incorporated in the project entitled**

**“PRELIMINARY SURVEY OF HOUSE SPARROW”**

Was satisfactorily carried out by **Miss. Gorhe Ashwini Rajendra** of B.Sc. **Zoology**. He has completed this project under my supervision and guidance during **Academic Year 2022-2023**. This project work submitted by his original and the scientific information obtain from other sources have been duly acknowledged.

  
Prof. Mr. Varpe Sir

(Project Guide)

  
Prof. Pekhale Sir

HoD



**MARATHA VIDYA PRASARAK SAMAJ, NASHIK**

**G.M.D. ARTS, B.W. COMMERCE AND SCIENCE  
COLLEGE, SINNAR, TAL-SINNAR, DIST-NASHIK - 422103**

# **CERTIFICATE**

**DEPARTMENT OF ZOOLOGY**

**This is to certify that the work incorporated in the project entitled**

## **Study Of Insects**

Was satisfactorily carried out by Miss. **Gulave Sayali Balasaheb** of B.Sc. **Zoology**. He has completed this project under my supervision and guidance during **Academic Year 2022-2023**. This project work submitted by his original and the scientific information obtain from other sources have been duly acknowledged.

**Prof. Varpe Sir**

**(Project Guide)**

**Prof. Pekhale Sir**

**HoD**

*M. Dalame*  
13-05-23



G.M.D ARTS, AND B.W. COMMERCE AND SCIENCE COLLEGE,  
NASHIK

## CERTIFICATE

SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

This is certify that the work incorporated in the dissertation entitled

Was satisfactorily carried out by Ms. **Gund Sima Rajaram** Of TYBSC  
She is bonafide student of this college. She has completed this project under the  
supervision and guidance during academic year 2022-2023 . This project work  
submitted by her original and the scientific information's obtained from other  
sources have been duly acknowledged.

Assi. prof. Mrs. Chandore Sir

Project Guide

Hh  
13.05.23  
Examiner

Asso. Prof.S.T.Pekhale

Head, Dept. of zoology

SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE



MARATHA VIDYA PRASARAK SAMAJ, NASIIK

G.M.D.ARTS, B.W.COMMERCE AND SCIENCE  
COLLEGE, SINNAR, TAL-SINNAR, DIST-NASHIK

### CERTIFICATE

This is to certify that the work incorporated in the  
dissertation entitled

STUDY OF DEFERENT TYPE OF ANTENNAE  
AND ITS USES TO INCECT

was satisfactorily carried out by MS. KAVERI MADAN GURULE of  
BSC-ZOOLOGY. She has completed this project under my supervision and  
guidance during academic YEAR 2022-2023. This Project work Submitted  
by her is Original and the scientific information obtain from other sources  
have been duly acknowledged.

Prof. LAXMAN CHANDORE

(Project Guide )

*Handwritten signature and date*  
13.05.23

Examiner

MR..SANJAY PEKHLE

(HOD)

# SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE



MARATHA VIDYA PRASARAK SAMAJ, NASHIK



G.M.D.ARTS, B.W.COMMERCE AND SCIENCE  
COLLEGE, SINNAR, TAL-SINNAR, DIST-NASHIK

## CERTIFICATE

This is to certify that the work incorporated in the  
Dissertation entitled

### FISH POND CONSTRUCTION AND MANAGEMENT

Was satisfactorily carried out by **M.S.JADHAV SAKSHI DATTATRAY**  
of **BSc-ZOOLOGY**. She has completed this project under my supervision  
and Guidance during **YEAR-2022-23**. This project work submitted by, her is  
original and the scientific information obtain from other sources have, been duly  
acknowledged.

Prof.Chandore sir.  
(Project Guide).

*Hr*  
13.05.23  
Examiner

Prof.S.T. Pekhale  
(HOD)



**SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**

FOR THE FULFILLMENT OF

DEGREE OF MASTER OF SCIENCE IN ZOOLOGY

**Study of Different Types of Wings of Insect**

BY

**Miss. Jagtap Sujata Ramdas**

UNDER THE GUIDANCE OF

**Assi. prof. Mrs. Ghumare**

PLACE OF RESEARCH WORK



G. DEPARTMENT OF ZOOLOGY

G.M.D,ARTS, AND B.W.COMMERCE AND SCIENCE COLLEGE, NASHIK.

APRIL 2022-2023



**MARATHA VIDYA PRASARAK SAMAJ, NASHIK**

**G.M.D. ARTS, B.W. COMMERCE AND SCIENCE  
COLLEGE, SINNAR, TAL-SINNAR, DIST-NASHIK - 422103**

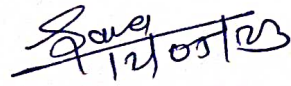
# **CERTIFICATE**

**DEPARTMENT OF ZOOLOGY**

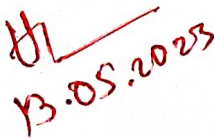
**This is to certify that the work incorporated in the project entitled**

## **STUDY OF DEFERENT TYPE OF WINGS OF INSECT**

Was satisfactorily carried out by **Miss. Khule Bhavana Navnath** of B.Sc. Zoology. He has completed this project under my supervision and guidance during **Academic Year 2022-2023**. This project work submitted by his original and the scientific information obtain from other sources have been duly acknowledged.

  
Miss. Bhamare Mam

(Project Guide)

  
13.05.2023

  
Prof. Pekhale Sir  
HEAD

DEPARTMENT OF ZOOLOGY  
G.M.D. Arts, B.W. Commerce  
and Science College, Sinnar





**MARATHA VIDYA PRASARK SAMAJ, NASHIK**  
**G.M.D. ARTS, B.W. COMMERCE AND SCIENCE COLLEGE,**  
**SINNAR**


Examination Seat No: ---18-----

## Certificate

This is to Certified that the project report  
 in Honey Bees.  
 "Study of environment effect on  
 colonisation  
 Has been carried out in our premises by-

**Kedar Sneha Kashinath**

Under my guidance in partial fulfillment of the requirement for  
 Third Year of B.Sc. during the academic year 2022-2023

  
 Prof. J. D. Nigam  
 Guide Teacher  
 Department of zoology

Prof. S. T. Pekhale  
 Head of Department  
 Department of zoology

  
 Internal Examiner

External Examiner



2023-24



G.M.D. Arts, B.W. Commerce and Science College Sinnar, Nashik

**DEPARTMENT OF ZOOLOGY**

***CERTIFICATE***

CERTIFICATE This is to certify that this project report "Study of the life cycle of crop pest" is the bonfire work of "mr ashish rajendta thoart bsc | | | during the academic year 2023-2024 who carried out the project work under my supervision.

**PROJECT GUIDE**

Ms. V. S. Varpe

**Department of Zoology**

Ass. Prof S.T.Pekhale

**INTERNAL EXAMINER**

*Ashish*  
**EXTERNAL EXAMINER**



**Maratha Vidya Prasarak Samaj, Nashik**

**G.M.D. Arts, B.W. Commerce and Science College, Sinnar**

**Examination Seat No: -----**

## **Certificate**

**This is to Certified that the project report**

**" Sericulture "**

**Has been carried out in our premises by-**

**Magar Bimlendra Satish**

**Under my guidance in partial fulfillment of the requirement for**

**Third Year of B.Sc. during the academic year 2022-23**

*Magar*  
**Prof. Varpe Sir**  
**Guide Teacher**  
**Department of Zoology**

*H. B. Satish*  
**Internal Examiner**

**Prof. Pekhle Sir**  
**Head of Department**  
**Department of Zoology**

*M. D. P. P. P.*  
**External Examiner**



G.M.D ARTS, AND B.W. COMMERCE AND SCIENCE COLLEGE,  
NASHIK.

## **CERTIFICATE**

**SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**

This is certify that the work incorporated in the dissertation entitled

### **" FISHPOND PREPARATION "**

Was satisfactorily carried out by Miss SHINDE NEHA SANJAY. Of  
B.Sc. III. She is bonafide student of this college. She has completed  
this project under the supervision and guidance during academic year  
2022-2023. This project work submitted by her original and the  
scientific information's obtained from other sources have been duly  
acknowledged.

  
Assi. prof. S.T.PHEKHALE

Project Guide

  
Examiner

  
Asso.Prof.S.T.Phekale  
HEAD

DEPARTMENT OF ZOOLOGY  
Head, Dept. of zoology,  
and Science College, Simar



**MARATHA VIDYA PRASARK SAMAJ, NASHIK**  
**G.M.D. ARTS, B.W. COMMERCE AND SCIENCE COLLEGE,**  
**SINNAR**

Examination Seat No: -----

## Certificate

This is to Certified that the project report  
" study the different types of snail "

Has been carried out in our premises by-

**Mali Tanisha Pundlik**

Under my guidance in partial fulfillment of the requirement for

Third Year of B.Sc. during the academic year 2022-23

Prof. L.S. Chandore  
Guide Teacher  
Department of Zoology

Internal Examiner

Prof. S.T. Pektale  
Head of Department  
Department of Zoology

M. Chavane  
24/11/2023  
External Examiner



G.M.D ARTS, AND B.W. COMMERCE AND SCIENCE COLLEGE,  
NASHIK.

## CERTIFICATE

SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

This is certify that the work incorporated in the dissertation entitled

**"Biodiversity in wet land ecosystem of Nandur  
Madhyameshwar Bird Sanctuary"**

Was satisfactorily carried out by **Ms Padol Pooja Lahanu** Of TY. B.sc She is bonafide student of this college. She has completed this project under the supervision and guidance during academic year : 2022-23 This project work submitted by her original and the scientific information's obtained from other sources have been duly acknowledged.

**Asso.Prof.S.T.Phekhale**

Project Guide

Examined  
23

**Asso.Prof.S.T.Phekhale**

**HEAD**

DEPARTMENT OF ZOOLOGY  
G.M.D. Arts, B.W. Commerce  
and Science College, Sinnar



# PROJECT REPORT

ON

## Pollution

Submitted to,

Savitribai Phule Pune University Pune,

Pune 411 007

By,

Smt. Panghavane Sakshi Annasaheb

*G.M.D., Arts, B.W. Commerce and Science and  
College, Sinnar*

For the degree of B.Sc. (Zoology 2022-23)

Under the guidance of

Prof. Bhamre Mam

(Assistant Professor)



G.M.D ARTS, AND B.W. COMMERCE AND SCIENCE COLLEGE,

NASHIK

## CERTIFICATE

SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

This is certify that the work incorporated in the dissertation entitled

Was satisfactorily carried out by Ms. Patil Saniana Prakash Of TYBSC She is bonafide student of this college. She has completed this project under the supervision and guidance during academic year 2021-2022. This project work submitted by her original and the scientific information's obtained from other sources have been duly acknowledged.

  
Assi. prof. S.S Bhamare

Project Guide

  
Examiner

  
Asso. Prof.S.T.Phekale

Head, ~~DEPT~~ Dept. of zoology  
DEPARTMENT OF ZOOLOGY  
G.M.D. Arts, B.W. Commerce  
and Science College, Sinnar





G.M.D ARTS, AND B.W. COMMERCE AND SCIENCE COLLEGE,

NASHIK

**CERTIFICATE**

SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

This is certify that the work incorporated in the dissertation entitled

Was satisfactorily carried out by Ms. Pawar Pooja Rajaram <sup>BSc</sup> Of ~~M.Sc. H.~~  
She is bonafide student of this college. She has completed this project under the supervision and guidance during academic year 2021-2022. This project work submitted by her original and the scientific information's obtained from other sources have been duly acknowledged.

Assi. prof. <sup>Chandore</sup> S.S. Bhamare  
Project Guide

*Chandore*  
12/05/23  
Examiner

*SN*  
Asso. Prof. S.T. Phekhale  
HEAD  
DEPARTMENT OF ZOOLOGY  
G.M.D. Arts, B.W. Commerce  
and Science College, Sinnar



Maratha Vidya Prasark Samaj, Nashik

G.M.D. Arts, B.W. Commerce and Science College, Sinnar

Examination Seat No: —

## Certificate

This is to Certified that the project report

" \_\_\_\_\_ "

Has been carried out in our premises by-

**Shelke Tejas Valmik**

Under my guidance in partial fulfillment of the requirement for  
Third Year of B.Sc. during the academic year 2022-23

Prof. V.S. Varpe  
Guide Teacher :- **V.S. Varpe**  
Department of **Zoology**

Chinnappa S  
12/05/23  
Internal Examiner

Prof. S.T. Pektale  
Head of Department  
**Department of Zoology**  
DEPARTMENT OF ZOOLOGY  
G.M.D. Arts, B.W. Commerce  
and Science College, Sinnar

External Examiner



**MARATHA VIDYA PRASARK SAMAJ, NASHIK**  
**G.M.D. ARTS, B.W. COMMERCE AND SCIENCE COLLEGE,**  
**SINNAR**

Examination Seat No: -----

## Certificate

This is to Certified that the project report  
" study the different types of snail "

Has been carried out in our premises by-

**Mali Tanisha Pundlik**

Under my guidance in partial fulfillment of the requirement for

Third Year of B.Sc. during the academic year 2022-23

Prof. L.S. Chandore  
Guide Teacher  
Department of Zoology

Internal Examiner

Prof. S.T. Pektale  
Head of Department  
Department of Zoology

M. Chavane  
24/11/2023  
External Examiner



MARATHA VIDYA PRASARAK SAMAJ, NASHIK



G.M.D. ARTS, B.W. COMMERCE AND SCIENCE  
COLLEGE, SINNAR, TAL. SINNAR, DIST. NASHIK

### CERTIFICATE

This is to certify that the work incorporated in the  
dissertation entitled

## Study of honey bee, life cycle, bee behaviour and communication

Was satisfactorily carried out by miss Pawar Savita Rohidas of Bsc  
Zoology. She has completed this project under my supervision and  
guidance during academic year 2022-2023. This project work  
submitted by her is original and the scientific information obtained  
from other sources have been duly acknowledged.

*Arati Tidame*  
Miss. Arati Tidame

(Project guide).

*H. B. P. 2023*  
Examiner

*S. T. P.*  
Mr. S. T. Pekhale

(HOD)



**MARATHA VIDYA PRASARAK SAMAJ, NASHIK**

G.M.D. ARTS, B.W. COMMERCE AND SCIENCE  
COLLEGE, SINNAR, TAL-SINNAR, DIST-NASHIK - 422103

## **CERTIFICATE**

**DEPARTMENT OF ZOOLOGY**

**This is to certify that the work incorporated in the project entitled**

### **Study Of Insects**

Was satisfactorily carried out by **Miss. Sahane Dhanashri Sunil** of **B.Sc. Zoology**. He has completed this project under my supervision and guidance during **Academic Year 2022-2023**. This project work submitted by his original and the scientific information obtain from other sources have been duly acknowledged.

**Prof. Chandore Sir**

**(Project Guide)**

**Prof. Pekhale Sir**  
**HEAD**

**DEPARTMENT OF ZOOLOGY**  
G.M.D. Arts, **HoD** Commerce  
and Science College, Sinnar

**Chandore**  
**13/05/23**



Maratha Vidya Prasark Samaj, Nashik

G.M.D. Arts, B.W. Commerce and Science College, Sinnar

Examination Seat No: —  
\_\_\_\_\_

## Certificate

This is to Certified that the project report

" \_\_\_\_\_ "

Has been carried out in our premises by-

**Shelke Tejas Valmik**

Under my guidance in partial fulfillment of the requirement for  
Third Year of B.Sc. during the academic year 2022-23

Prof. \_\_\_\_\_  
Guide Teacher :- **V.S.Varpe**  
Department of **Zoology**

\_\_\_\_\_  
Internal Examiner

Prof. \_\_\_\_\_  
Head of Department  
Department of **Zoology**  
DEPARTMENT OF ZOOLOGY  
G.M.D. Arts, B.W. Commerce  
and Science College, Sinnar

External Examiner



G.M.D ARTS, AND B.W. COMMERCE AND SCIENCE COLLEGE,  
NASHIK.

## **CERTIFICATE**

**SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**

This is certify that the work incorporated in the dissertation entitled


**" FISHPOND PREPARATION "**

Was satisfactorily carried out by Miss SHINDE NEHA SANJAY. Of  
B.Sc. III. She is bonafide student of this college. She has completed  
this project under the supervision and guidance during academic year  
2022-2023. This project work submitted by her original and the  
scientific information's obtained from other sources have been duly  
acknowledged.

  
Assi. prof. S.T.PHEKHALE

Project Guide

  
Examiner

  
Asso.Prof.S.T.Phekale  
HEAD

DEPARTMENT OF ZOOLOGY  
Head, Dept. of zoology,  
and Science College, Simar



**MARATHA VIDYA PRASARK SAMAJ, NASHIK**

**G.M.D. ARTS, B.W. COMMERCE AND SCIENCE COLLEGE,  
SINNAR**

Examination Seat No: 34-----

## **Certificate**


This is to Certified that the project report

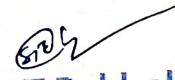
" \_\_\_\_\_ "

Has been carried out in our premises by-

**Shinde Nikita Shrihari**

Under my guidance in partial fulfillment of the requirement for  
Third Year of B.Sc. during the academic year 2021-23

  
**Prof. S.T. Pekhale**  
Guide Teacher  
Department of Zoology

  
**Prof. S.T. Pekhale**  
Head of Department  
Department of Zoology  
DEPARTMENT OF ZOOLOGY  
G.M.D. Arts, B.W. Commerce  
and Science College, Sinnar

  
Internal Examiner

**External Examiner**





G.M.D ARTS, AND B.W. COMMERCE AND SCIENCE COLLEGE,  
NASHIK.

## CERTIFICATE

SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

This is certify that the work incorporated in the dissertation entitled

### **STUDY OF BLOOD OF INSECT**

Was satisfactorily carried out by Ms **SARIKA SHANKAR SHINDE** Of **B.SC** She is bonafide student of this college. She has completed this project under the supervision and guidance during academic year **2022-2023**. This project work submitted by her original and the scientific information's obtained from other sources have been duly acknowledged.

Assi. prof. **L.CHANDORE**

Project Guide

*Shinde*  
13/05/23

Asso.Prof.S.T.Phekhale

Head, Dept. of zoology



G.M.D ARTS, AND B.W. COMMERCE AND SCIENCE COLLEGE,  
NASHIK.

## CERTIFICATE

SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

This is certify that the work incorporated in the dissertation entitled

### **STUDY OF TURMITE'S**

Was satisfactorily carried out by Ms **TANUJA SHARAD SHINDE**. Of **B.SC** She is bonafide student of this college. She has completed this project under the supervision and guidance during academic year **2022-2023**. This project work submitted by her original and the scientific information's obtained from other sources have been duly acknowledged.

Assi. prof. **L.CHANDORE**

Project Guide

*L. Chandore*  
Examiner  
12/05/23

Asso.Prof.**S.T.Phekhale**

Head, Dept. of zoology



**Maratha Vidya Prasarak Samaj, Nashik**

**G.M.D. Arts, B.W. Commerce and Science College, Sinnar**

**Examination Seat No: -----**

## **Certificate**

**This is to Certified that the project report**

**" Sericulture "**

**Has been carried out in our premises by-**

**Magar Bimlendra Satish**

**Under my guidance in partial fulfillment of the requirement for**

**Third Year of B.Sc. during the academic year 2022-23**

*Magar*  
**Prof. Varpe Sir**  
**Guide Teacher**  
**Department of Zoology**

*H. B. Satish*  
**Internal Examiner**

**Prof. Pekhle Sir**  
**Head of Department**  
**Department of Zoology**

*M. D. P. P. P.*  
**External Examiner**

# SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE



MARATHA VIDYA PRASARAK SAMAJ, NASHIK



G.M.D.ARTS, B.W.COMMERCE AND SCIENCE  
COLLEGE, SINNAR, TAL-SINNAR, DIST-NASHIK

## CERTIFICATE

This is to certify that the work incorporated in the  
Dissertation entitled

### STUDY OF DIFFERENT TYPES OF WINGS OF INSECT

Was satisfactorily carried out by **M.S.JADHAV ANUJA ASHOK**  
of **BSc-ZOOLOGY**. She has completed this project under my supervision  
and Guidance during **YEAR-2022-23**. This project work submitted by, her is  
original and the scientific information obtain from other sources have, been duly  
acknowledged.

Prof.Chandore sir.  
(Project Guide).

*H.L. 13.05.23*  
Examiner

Prof.S.T. Pekhale  
(HOD)



G.M.D.Arts,B.W.Commerce and Science College  
Sinnar,Nashik.

DEPARTMENT OF ZOOLOGY

**CERTIFICATE**

CERTIFICATE . This is to certify that this project report "Study Of Agricultural pests" is the bonfire work of "Mr. sanket manikrao shinde" of M.Sc.II during the academic year 2022-2023 who carried the project work under my supervision .

PROJECT GUIDE

*Miss. bhamare mam*

Department of Zoology

*Prof.S.T. Pekhale*

INTERNAL EXAMINER

EXTERNAL EXAMINER



MARATHA VIDYA PRASARAK SAMAJ, NASHIK



G.M.D. ARTS, B.W. COMMERCE AND SCIENCE  
COLLEGE, SINNAR, TAL. SINNAR, DIST. NASHIK

### CERTIFICATE

This is to certify that the work incorporated in the  
dissertation entitled

## Study of honey bee, life cycle, bee behaviour and communication

Was satisfactorily carried out by miss Pawar Savita Rohidas of Bsc  
Zoology. She has completed this project under my supervision and  
guidance during academic year 2022-2023. This project work  
submitted by her is original and the scientific information obtained  
from other sources have been duly acknowledged.

  
Miss. Arati Tidame

(Project guide).

  
Examiner

  
Mr. S.T. Pekhale

(HOD)



G.M.D ARTS, AND B.W. COMMERCE AND SCIENCE COLLEGE,

NASHIK

## CERTIFICATE

SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

This is certify that the work incorporated in the dissertation entitled

Was satisfactorily carried out by Ms. Patil Saniana Prakash Of TYBSC She is bonafide student of this college. She has completed this project under the supervision and guidance during academic year 2021-2022. This project work submitted by her original and the scientific information's obtained from other sources have been duly acknowledged.

  
Assi. prof. S.S Bhamare

Project Guide

  
Examiner

  
Asso. Prof.S.T.Phekale

Head, ~~Dept. of~~ zoology  
DEPARTMENT OF ZOOLOGY  
G.M.D. Arts, B.W. Commerce  
and Science College, Sinnar



G.M.D ARTS, AND B.W. COMMERCE AND SCIENCE COLLEGE,  
NASHIK.

## **CERTIFICATE**

**SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**

This is certify that the work incorporated in the dissertation entitled

**" FISHPOND PREPARATION "**

Was satisfactorily carried out by Miss SHINDE NEHA SANJAY. Of  
B.Sc. III. She is bonafide student of this college. She has completed  
this project under the supervision and guidance during academic year  
2022-2023. This project work submitted by her original and the  
scientific information's obtained from other sources have been duly  
acknowledged.

  
Assi. prof. S.T.PHEKHALE

Project Guide

  
Examiner

  
Asso.Prof.S.T.Phekale  
HEAD

DEPARTMENT OF ZOOLOGY  
Head, Dept. of zoology,  
and Science College, Simar





**MARATHA VIDYA PRASARK SAMAJ, NASHIK**  
**G.M.D. ARTS, B.W. COMMERCE AND SCIENCE COLLEGE,**  
**SINNAR**

Examination Seat No: -----

## Certificate

This is to Certified that the project report

" Bhosale Payal Rajendra. "

Has been carried out in our premises by-

Under my guidance in partial fulfillment of the requirement for  
Third Year of B.Sc. during the academic year 2022-23

*Arati Tidame*  
10/05/2023  
Prof. Arati Tidame  
Guide Teacher  
Department of Zoology

*C.S.T. Pekhale*  
Prof. (C.S.T. Pekhale)  
Head of Department  
Department of Zoology  
DEPARTMENT OF ZOOLOGY  
G.M.D. Arts, B.W. Commerce  
and Science College, Sinnar

*Arati Tidame*  
10/05/2023  
Internal Examiner

*Arati Tidame*  
10/05/2023  
External Examiner



**MARATHA VIDYA PRASARAK SAMAJ, NASHIK**

**G.M.D. ARTS, B.W. COMMERCE AND SCIENCE  
COLLEGE, SINNAR, TAL-SINNAR, DIST-NASHIK - 422103**

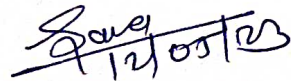
# **CERTIFICATE**

**DEPARTMENT OF ZOOLOGY**

**This is to certify that the work incorporated in the project entitled**

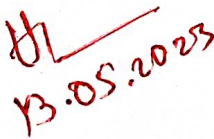
## **STUDY OF DEFERENT TYPE OF WINGS OF INSECT**

Was satisfactorily carried out by **Miss. Khule Bhavana Navnath** of B.Sc. Zoology. He has completed this project under my supervision and guidance during **Academic Year 2022-2023**. This project work submitted by his original and the scientific information obtain from other sources have been duly acknowledged.



**Miss. Bhamare Mam**

**(Project Guide)**

  
13.05.2023

  
**Prof. Pekhale Sir**

**HEAD**

**DEPARTMENT OF ZOOLOGY  
G.M.D. Arts, B.W. Commerce  
and Science College, Sinnar**



**MARATHA VIDYA PRASARK SAMAJ, NASHIK**

**G.M.D. ARTS, B.W. COMMERCE AND SCIENCE COLLEGE,  
SINNAR**

Examination Seat No: 47

## Certificate

This is to Certified that the project report

"To study insect pest of surrounding  
area as village."

Has been carried out in our premises by-

**Waje Kajal Kacharu**

Under my guidance in partial fulfillment of the requirement for

Third Year of B.Sc. during the academic year **2022-23**

Prof. L.S. Chandore

Guide Teacher

Department of **Zoology**

  
Internal Examiner

Prof. S.T. Pekhale

Head of Department

Department of **Zoology**

DEPARTMENT OF ZOOLOGY  
G.M.D. Arts, B.W. Commerce  
and Science College, Sinnar

  
External Examiner



**MARATHA VIDYA PRASARAK SAMAJ, NASHIK**

G.N.D. ARTS, B.W. COMMERCE AND SCIENCE  
COLLEGE, SINNAR, TAL-SINNAR, DIST-NASHIK - 422103

## **CERTIFICATE**

**DEPARTMENT OF ZOOLOGY**

**This is to certify that the work incorporated in the project entitled**

**“Study Of Honeybees”**

Was satisfactorily carried out by **Miss. Gavali Prerna Vijay** of B.Sc. **Zoology**. He has completed this project under my supervision and guidance during **Academic Year 2022-2023**. This project work submitted by his original and the scientific information obtain from other sources have been duly acknowledged.

  
Prof. Mr. Varpe Sir

(Project Guide)

Prof.Pekhale Sir

HoD



# GMD ARTS BW COMMARCE AND SCIENCE COLLAGGE SINNNAR

## CERTIFICATE

THIS IS TO CERTIFY THAT THE PROJECT REPORT

NAME - GHULE SURABHEE PRAKASH

STD - TYBSC (ZOOLOGY)

SUB - ZOOLOGY

TOPIC - POISONOUS AND NON POISONOUS SNAKES

UNDER MY GUIDENCE IN PARTIAL FULFILMENT OF THE REQUIREMENT OF THIRD YEAR BSC DURING THE  
ACADMIC YEAR 2022-23

PROF Varpe Sir.

GUIDE TEACHER

DEPARTMENT OF ZOOLOGY

*H.P.S. 05.05*  
INTERNAL EXAM

PROF Pekhale Sir.

HEAD OF DEPARTMENT

DEPARTMENT OF ZOOLOGY

*H.P.S. 05.05*  
EXTERNAL EXAM



Maratha Vidya Prasarak Samaj, Nashik

G.M.D. Arts, B.W. Commerce and Science College, Sinnar

Examination Seat No: —

## Certificate

This is to Certified that the project report  
" Poultry Farming. "  
Has been carried out in our premises by-

Under my guidance in partial fulfillment of the requirement for

Third Year of B.Sc. during the academic year 2021-22

Prof. Pekhale sir  
Guide Teacher  
Department of ZOOLOGY

Prof. S.T. Pekale  
Head of Department  
Department of ZOOLOGY  
G.M.D. Arts, B.W. Commerce  
and Science College, Sinnar

Chitambar  
Internal Examiner

External Examiner

2023-24



G.M.D. Arts, B.W. Commerce and Science College Sinnar, Nashik

DEPARTMENT OF ZOOLOGY

**CERTIFICATE**

CERTIFICATE This is to certify that this project report "Study of the life cycle of crop pest" is the bonfire work of "mr ashish rajendta thoart bsc | | I during the academic year 2023-2024 who carried out the project work under my supervision.

PROJECT GUIDE

Ms. V. S. Varpe

Department of Zoology

Ass. Prof S.T.Pekhale

INTERNAL EXAMINER

*Ashish*  
EXTERNAL EXAMINER

**SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**



**MARATHA VIDHYA PRASARAK SAMAJ, NASHIK**



**G.M.D ART'S B.W.COMMERCE & SCIENCE  
COLLEGE, SINNAR, TEL, SINNAR, DIST, NASHIK**

**CERTIFICATE**

this is to certify that the work incorporated in the  
dissertation entitled

***STUDY OF AGRICULTURAL PESTS IN SINNAR AREA***

was satisfactorily carried out by **MISS.SHINDE VAISHNAVI  
SHIVNATH** of **BSC-ZOOLOGY**, she has completed this project  
under my supervision and guidance during academic **YEAR  
2022-2023** this project work submitted by her is original and  
the scientific information obtain from other sources have been  
duly acknowledged.

**mr.chandore sir  
(project Guide)**

**EXAMINER**  
13/05/23

**MR.S.T.PEKHALE.  
(HOD)**





G.M.D ARTS, AND B.W. COMMERCE AND SCIENCE COLLEGE,  
NASHIK.

## CERTIFICATE

SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

This is certify that the work incorporated in the dissertation entitled

### **STUDY OF BLOOD OF INSECT**

Was satisfactorily carried out by Ms **SARIKA SHANKAR SHINDE** Of **B.SC** She is bonafide student of this college. She has completed this project under the supervision and guidance during academic year **2022-2023**. This project work submitted by her original and the scientific information's obtained from other sources have been duly acknowledged.

Assi. prof. **L.CHANDORE**

Project Guide

*Signature*  
13/05/23

Asso.Prof.S.T.Phekhale

Head, Dept. of zoology



G.M.D ARTS, AND B.W. COMMERCE AND SCIENCE COLLEGE,  
NASHIK.

## CERTIFICATE

SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

This is certify that the work incorporated in the dissertation entitled

### **STUDY OF TURMITE'S**

Was satisfactorily carried out by Ms **TANUJA SHARAD SHINDE**. Of **B.SC** She is bonafide student of this college. She has completed this project under the supervision and guidance during academic year **2022-2023**. This project work submitted by her original and the scientific information's obtained from other sources have been duly acknowledged.

Assi. prof. **L.CHANDORE**

Project Guide

*L. Chandore*  
Examiner  
12/05/23

Asso.Prof.**S.T.Phekhale**

Head, Dept. of zoology

SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE



MARATHA VIDHYA PRASARAK SAMAJ, NASHIK



G.M.D ART'S B.W.COMMERCE & SCIENCE  
COLLEGE, SINNAR, TEL, SINNAR, DIST, NASHIK

## CERTIFICATE

this is to certify that the work incorporated in the  
dissertation entitled

### ***STUDY OF AGRICULTURAL PESTS IN SINNAR AREA***

was satisfactorily carried out by **MISS. SHINDE VAISHNAVI SHIVNATH** of **BSC-ZOOLOGY**, she has completed this project under my supervision and guidance during academic **YEAR 2022-2023** this project work submitted by her is original and the scientific information obtain from other sources have been duly acknowledged.

mr.chandore sir  
(project Guide)

*G. Chandore*  
EXAMINER  
13/05/23

MR.S.T.PEKHALE.  
(HOD)

G.M.D. ARTS B.W. COMMERCE AND  
SCIENCE COLLEGE SINNAR

## CERTIFICATE

*Savitribai Phule pune university ,pune*

*This is to certify that the work incorporated in the dissertation entitled*

### **STUDY OF HOUSEHOLD PESTS**

*Was satisfactorily carried out by Miss Shirole Aishwarya Prabhakar.  
Of T.Y.B.SC she is a bonafide student of this college she has completed  
This project under my supervision and guidance during the Academic  
year 2022-23.this project work submitted by her is original and the  
scientific information obtained from other sources has been duly  
acknowledgement*

*Vidhana*  
*10/05/2023*  
Prof.A.T.TIDAME  
Project guide

*H/S.05/23*  
Examiner

*S.R.*  
Dr.S.Pekhale.  
head  
Dept .of  
Zoology  
HEAD  
DEPARTMENT OF ZOOLOGY  
G.M.D. Arts, B.W. Commerce  
and Science College, Sinnar



Maratha Vidya Prasark Samaj, Nashik

G.M.D. Arts, B.W. Commerce and Science College, Sinnar

Examination Seat No: ----

## Certificate

This is to Certified that the project report

" \_\_\_\_\_ "

Has been carried out in our premises by-

**Shirsat Kunal Ramnath**

Under my guidance in partial fulfillment of the requirement for  
Third Year of B.Sc. during the academic year 2022-23

Prof. \_\_\_\_\_  
Guide Teacher :- **V.S.Varpe**  
Department of **Zoology**

**Internal Examiner**

Prof. S.T. Pekkhe  
Head of Department  
Department of **Zoology**  
DEPARTMENT HEAD  
DEPARTMENT OF ZOOLOGY  
G.M.D. Arts, B.W. Commerce  
and Science College, Sinnar

**External Examiner**

2023-24



G.M.D. Arts, B.W. Commerce and Science College Sinnar, Nashik

DEPARTMENT OF ZOOLOGY

**CERTIFICATE**

CERTIFICATE This is to certify that this project report "Study of the life cycle of crop pest" is the bonfire work of "mr ashish rajendta thoart bsc | | | during the academic year 2023-2024 who carried out the project work under my supervision.

PROJECT GUIDE

Ms. V. S. Varpe

Department of Zoology

Ass. Prof S.T.Pekhale

INTERNAL EXAMINER

*Ashish*  
EXTERNAL EXAMINER



**MARATHA VIDYA PRASARK SAMAJ, NASHIK**  
**G.M.D. ARTS, B.W. COMMERCE AND SCIENCE COLLEGE,**  
**SINNAR**

Examination Seat No :- \_\_\_\_\_

## **Certificate**

**This is to Certified that the project report**


---

**Has been carried out in our premises by-**

**Ugale Rohit Bhausahab**

**Under my guidance in partial fulfillment of the  
requirement for**

**Third Year of B.Sc. during the academic year 2022-23**



**Prof :- S T Pekhale**  
**Guide Teacher & HOD**  
**Department Of Zoology**

**HEAD**  
**DEPARTMENT OF ZOOLOGY**  
**G.M.D. ARTS, B.W. COMMERCE AND SCIENCE COLLEGE**

  
13/05/23

**Internal  
Examiner**

**External  
Examiner**



**MARATHA VIDYA PRASARK SAMAJ, NASHIK**

**G.M.D. ARTS, B.W. COMMERCE AND SCIENCE COLLEGE,  
SINNAR**

Examination Seat No: 47

## Certificate

This is to Certified that the project report

"To study insect pest of surrounding  
area as village."

Has been carried out in our premises by-

**Waje Kajal Kacharu**

Under my guidance in partial fulfillment of the requirement for

Third Year of B.Sc. during the academic year **2022-23**

Prof. L.S. Chandore

Guide Teacher

Department of **Zoology**

*[Signature]*  
Internal Examiner

Prof. S.T. Pekhale

Head of Department

Department of **Zoology**

DEPARTMENT OF ZOOLOGY  
G.M.D. Arts, B.W. Commerce  
and Science College, Sinnar

*[Signature]*  
External Examiner





**MARATHA VIDYA PRASARK SAMAJ, NASHIK**

**G.M.D. ARTS, B.W. COMMERCE AND SCIENCE COLLEGE,  
SINNAR**

Examination Seat No: 47

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"To study insect pest of surrounding  
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Prof. L.S. Chandore

Guide Teacher

Department of **Zoology**

  
Internal Examiner

Prof. S.T. Pekhale

Head of Department

Department of **Zoology**

DEPARTMENT OF ZOOLOGY  
G.M.D. Arts, B.W. Commerce  
and Science College, Sinnar

  
External Examiner