

Shri A.P.D. Jain Pathashala's

**Walchand College of Arts and Science  
(Autonomous)**

Walchand Hirachand Marg,  
Ashok Chowk  
Solapur – 413006  
Maharashtra

**Student Projects**

**Walchand College of Arts & Science, Solapur (Autonomous)**

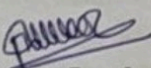
**Department of Zoology**

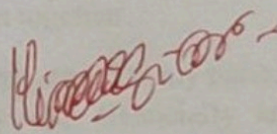
(2021-22)

## **Certificate**

This is to certify that **Ms. Pooja Sunil Walekar**, Roll No 3857, B.Sc.-III Zoology, has successfully completed project work entitled "**Fish Market and Nutritional Values of Fishes**" as a part of completion of graduate degree as prescribed by Solapur University, Solapur in the subject Zoology. she took active part and contributed originally in the completion of this report for the academic year 2021-22 for submission and evaluation during final practical examination.

**Exam Seat No- 908014**

  
**Teacher In-charge**

  
**Dr. R. V. Hippargi**

(Head, Dept. of Zoology)

**Examiners:**

1.

2.

**HEAD**  
**DEPARTMENT OF ZOOLOGY**  
Walchand College of Arts & Science  
SOLAPUR - 413 008.



**Walchand College of Arts & Science, Solapur (Autonomous)**

**Department of Zoology**

(2021-22)

**Certificate**

This is to certify that **Miss. Priti Sanjay Bansode**, Roll No **3928**, B.Sc.-III Zoology, has successfully completed project work entitled "**Study On Ophthalmic Disorder In Human**" as a part of completion of graduate degree as prescribed by Solapur University, Solapur in the subject Zoology. He/she took active part and contributed originally in the completion of this report for the academic year 2021-22 for submission and evaluation during final practical examination.

Exam Seat No- **908650**

Teacher In-charge

Dr. S. P. Nawale

Dr. M. O. Mulajkar

*Swah*  
*17.5.22*  
*Priti*

*Head*  
*30/5/22*

Dr. R. V. Hippargi

(Head, Dept. of Zoology)

**HEAD**  
**DEPARTMENT OF ZOOLOGY**  
**Walchand College of Arts & Science**  
**SOLAPUR - 413 008.**

Examiners:

1.

2.



**Walchand College of Arts & Science, Solapur (Autonomous)**

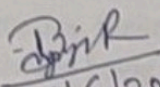
**Department of Zoology**

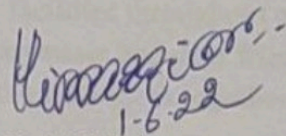
(2021-22)

## **Certificate**

This is to certify that Ms. Snehal Raju Dasari, Roll No 3949, B.Sc.-III Zoology, has successfully completed project work entitled "Study of Zooplanktons from Sambhaji Lake, Solapur, Maharashtra" as a part of completion of graduate degree as prescribed by Solapur University, Solapur in the subject Zoology. He/she took active part and contributed originally in the completion of this report for the academic year 2021-22 for submission and evaluation during final practical examination.

**Exam Seat No-**

  
21/6/2022  
**Teacher In-charge**

  
**Dr. R. V. Hippargi**

(Head, Dept. of Zoology)

**Examiners:**

1.

2.

**HEAD**  
**DEPARTMENT OF ZOOLOGY**  
Walchand College of Arts & Science  
SOLAPUR - 413 006



Walchand College of Arts & Science, Solapur (Autonomous)

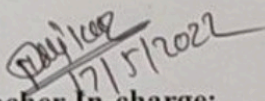
Department of Zoology

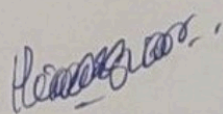
(2021-22)

## Certificate

This is to certify that **Ms. Pratibha Sudhir Dantkale**, Roll No 3852, B.Sc.-III Zoology, has successfully completed project work entitled "**Survey And Analysis Of Human Genetic Traits From College Campus**" as a part of completion of graduate degree as prescribed by Solapur University, Solapur in the subject Zoology. She took active part and contributed originally in the completion of this report for the academic year 2021-22 for submission and evaluation during final practical examination.

Exam Seat No- 908604

  
Teacher In-charge:  
Dr. M. O. Mulajkar

  
Dr. R. V. Hippargi

(Head, Dept. of Zoology)

Examiners:

1.

2.

**HEAD**  
**DEPARTMENT OF ZOOLOGY**  
Walchand College of Arts & Science  
SOLAPUR - 413 008



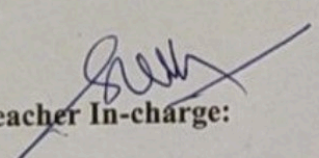
**Walchand College of Arts & Science (Autonomous), Solapur**

**Department of Zoology**

**CERTIFICATE**

This is to certify that **Miss. Sonal Ashok Raccha**, Roll No. **3892**, B.Sc.-III Zoology, has successfully completed project work entitled "**Study of Water Pollution in Sambhaji Lake, Solapur, Maharashtra**" as a part of completion of graduate degree as prescribed by P.A.H. Solapur University, Solapur in the subject Zoology. She took active part and contributed originally in the completion of this report for the academic year 2021-22 for submission and evaluation during final practical examination.

**Exam Seat No-** 908633

  
**Teacher In-charge:**

1.

2.

Dr. R.V. Hippargi

(Head, Dept. of Zoology)

**HEAD**  
**DEPARTMENT OF ZOOLOGY**  
Walchand College of Arts & Science  
SOLAPUR - 413 008.

**Examiners:**

1.

2.



**Walchand College of Arts & Science, Solapur (Autonomous)**

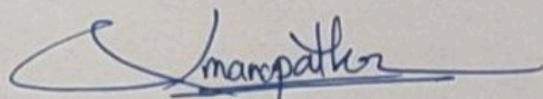
**Department of Zoology**

(2021-22)

**CERTIFICATE**

This is to certify that Mr. /Ms. /Mrs. Shruti Kishor Bidri Roll No 3864 B.Sc.-III Zoology, has successfully completed project work entitled "ANTIMICROBIAL ACTIVITY OF CITRULLUS COLOCYNTHIS" as a part of completion of graduate degree as prescribed by Solapur University, Solapur in the subject Zoology. He/She took active part and contributed originally in the completion of this report for the academic year 2021-22 for submission and evaluation during final practical examination.

Exam Seat No-

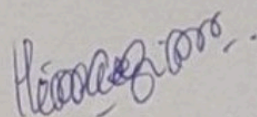


**Teacher In-charge:**

**Dr. N.B.PATKAR**

**Examiners:**

- 1.
- 2.



Prof. Dr. R.V. Hippargi

(Head, Dept. of Zoology)

**HEAD**  
**DEPARTMENT OF ZOOLOGY**  
Walchand College of Arts & Science  
SOLAPUR - 413 008.



WALCHAND COLLEGE OF ARTS AND SCIENCE, SOLAPUR

(Autonomous)

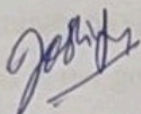
Department of Zoology

(2021-22)

## CERTIFICATE

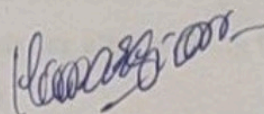
This is to certify that **Miss. Janhvi Vikram Deshmukh**, Roll No: 3877, B.Sc.-III Zoology, has successfully completed project work entitled "**Insilico annotation and analysis of toxic peptides of Latrodectus venom**" as a part of the completion of the graduate degree as prescribed by Solapur University, Solapur in the subject Zoology. She took an active part and contributed originally to the completion of this report for the academic year 2021-22 for submission and evaluation during the final practical examination.

Exam Seat No:



Prof. Y. N. Joshi

(Project Supervisor)



Dr. R. V. Hippargi

(Head, Dept. of Zoology)

**HEAD**  
**DEPARTMENT OF ZOOLOGY**  
Walchand College of Arts & Science  
SOLAPUR - 413 006

1. External Examiner:

2. External Examiner:



**Walchand College of Arts & Science, Solapur (Autonomous)**

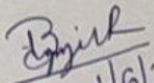
**Department of Zoology**

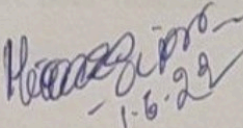
(2021-22)

## **Certificate**

This is to certify that **Ms. Megha Dayanand Swami**, Roll No 3851, B.Sc.-III Zoology, has successfully completed project work entitled "**Freshwater Aquarium Establishment And Management**" as a part of completion of graduate degree as prescribed by Solapur University, Solapur in the subject Zoology. she took active part and contributed originally in the completion of this report for the academic year 2021-22 for submission and evaluation during final practical examination.

**Exam Seat No-**

  
1/6/2022  
**Teacher In-charge**

  
1-6-22

**Dr. R. V. Hippargi**

(Head, Dept. of Zoology)

**HEAD**  
**DEPARTMENT OF ZOOLOGY**  
Walchand College of Arts & Science  
SOLAPUR - 413 006

**Examiners:**

1.

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Walchand College of Arts & Science, Solapur (Autonomous)

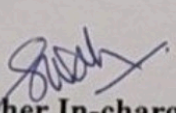
Department of Zoology

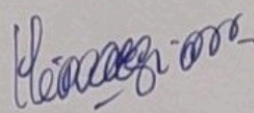
(2021-22)

## Certificate

This is to certify that **Mr. Shaikh Abdullah Ameen**, Roll No 3924 , B.Sc.-III Zoology, has successfully completed project work entitled "**Behaviour of Indian Palm Squirrel**" as a part of completion of graduate degree as prescribed by Solapur University, Solapur in the subject Zoology. He took active part and contributed originally in the completion of this report for the academic year 2021-22 for submission and evaluation during final practical examination.

Exam Seat No-

  
Teacher In-charge

  
Dr. R. V. Hippargi

(Head, Dept. of Zoology)

**HEAD**  
**DEPARTMENT OF ZOOLOGY**  
Walchand College of Arts & Science  
SOLAPUR - 413 008.

Examiners:

- 1.
- 2.



Walchand College of Arts & Science, Solapur (Autonomous)

Department of Zoology

(2021-22)

## Certificate

This is to certify that Ms. Pradnya Dashrath Machcha, Roll No 3950, B.Sc.-III Zoology, has successfully completed project work entitled " Physico-Chemical Parameters Of Water Sample Collected From Sambhaji Lake Solapur" as a part of completion of graduate degree as prescribed by Solapur University, Solapur in the subject Zoology. He/she took active part and contributed originally in the completion of this report for the academic year 2021-22 for submission and evaluation during final practical examination.

Exam Seat No-

*Pradnya*  
*1-6-22*

Teacher In-charge

*Dr. R. V. Hippargi*  
*1-6-22*

Dr. R. V. Hippargi

(Head, Dept. of Zoology)

Examiners:

**HEAD**  
**DEPARTMENT OF ZOOLOGY**  
Walchand College of Arts & Science  
SOLAPUR - 413 006.

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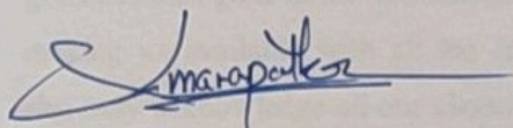
**WALCHAND COLLEGE OF ARTS AND SCIENCE, SOLAPUR**  
(Autonomous)

**Department of Zoology**  
(2021-22)

**CERTIFICATE**

This is to certify that **Miss. Rajeshwari G. Hiremath**, Roll No: 3878, B.Sc.-III Zoology, has successfully completed project work entitled "**Isolation and Characterization of Halophilic Bacterial strains from Seawater sample of Arambol Beach, Goa, India**" as a part of the completion of the graduate degree as prescribed by P. A. H. Solapur University, Solapur in the subject of Zoology. She took an active part and contributed originally to the completion of this project work for the academic year 2021-22 for submission and evaluation during the final practical examination.

**Exam Seat No:**

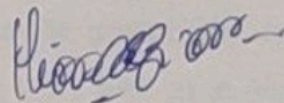


**Dr. N. B. Patkar**  
(Project Supervisor)

**Head**  
Department of Biotechnology  
Walchand College of Arts & Science  
Solapur.

1) External examiner :

2) External examiner :



**Dr. R. V. Hippargi**  
(Head, Dept. of Zoology)

**HEAD**  
**DEPARTMENT OF ZOOLOGY**  
Walchand College of Arts & Science  
SOLAPUR - 413 008



Walchand College of Arts & Science, Solapur (Autonomous)

Department of Zoology

(2021-22)

Certificate

This is to certify that Mr. /Ms. /Mrs. **SHAHAPURE TEJAL SURAJKUMAR**, Roll No **3922**, B.Sc.-III Zoology, has successfully completed project work entitled **"REPRODUCTIVE HORMONAL DISTURBANCE AND IT'S CAUSES IN FEMALES"** as a part of completion of graduate degree as prescribed by Solapur University, Solapur in the subject Zoology. She took active part and contributed originally in the completion of this report for the academic year 2021-22 for submission and evaluation during final practical examination.

Exam Seat No: **908643**

Teacher In-charge:

1. Dr. S. P. Nawale
2. Dr. M. O. Mulajkar

*SP Nawale*  
*23.5.22*  
*Mulajkar*

*Hippargi*  
*30/5/22*

Prof. Dr. R. V. Hippargi

(Head, Dept. of Zoology)

**HEAD**  
**DEPARTMENT OF ZOOLOGY**  
Walchand College of Arts & Science  
SOLAPUR - 413 006.

Examiners:

- 1.
- 2.



Walchand College of Arts & Science, Solapur (Autonomous)

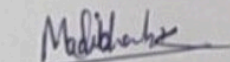
Department of Zoology

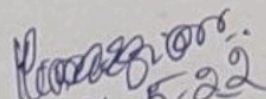
(2021-22)

**Certificate**

This is to certify that Miss. Birajdar Ruksar Bakhtyar, Roll No. 3920, B.Sc.-III Zoology, has successfully completed project work entitled "**Survey of Thalassemia major from Solapur district, Maharashtra state, India**" as a part of completion of graduate degree as prescribed by Solapur University, Solapur in the subject Zoology. she took active part and contributed originally in the completion of this report for the academic year 2021-22 for submission and evaluation during final practical examination.

Exam Seat No-

  
Teacher In-charge

  
24-5-22

Dr. R. V. Hippargi

(Head, Dept. of Zoology)

Examiners:

1.

2.

**HEAD**  
**DEPARTMENT OF ZOOLOGY**  
Walchand College of Arts & Science  
SOLAPUR - 413 008.



**Walchand College of Arts & Science, Solapur (Autonomous)**

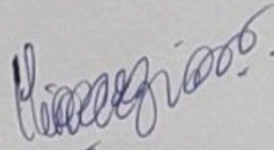
**Department of Zoology**

(2021-22)

**Certificate**

This is to certify that **Mr. Pavankumar Hanamant Koli**, Roll No 3907, B.Sc.-III Zoology, has successfully completed project work entitled "**Avian Diversity In Walchand College of Arts and Science**" as a part of completion of graduate degree as prescribed by Solapur University, Solapur in the subject Zoology. He/she took active part and contributed originally in the completion of this report for the academic year 2021-22 for submission and evaluation during final practical examination.

**Exam Seat No-** 908657



**Dr. R. V. Hippargi**  
(Teacher In-charge)  
(Head, Dept. of Zoology)

**Examiners:**

- 1.
- 2.



Walchand College of Arts & Science, Solapur (Autonomous)

Department of Zoology

(2021-22)

## Certificate

This is to certify that Ms. ITTAM DHANASHRI VISHNU Roll No 3876, B.Sc.-III Zoology, has successfully completed project work entitled "TO STUDY THE VERMICOMPOSTING " as a part of completion of graduate degree as prescribed by Solapur University, Solapur in the subject Zoology. She took active part and contributed originally in the completion of this report for the academic year 2021-22 for submission and evaluation during final practical examination.

Exam Seat No- 908591

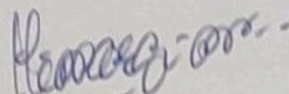
Teacher In-charge

Malikhar

Examiners:

1.

2.

  
Dr. R. V. Hippargi

(Head, Dept. of Zoology)

**HEAD**  
**DEPARTMENT OF ZOOLOGY**  
Walchand College of Arts & Science  
SOLAPUR - 413 004.



**Walchand College of Arts & Science, Solapur (Autonomous)**

**Department of Zoology**

(2021-22)

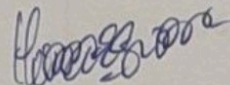
## **Certificate**

This is to certify that **Ms. Balla Vidya Raju**, Roll No. 3875, B.Sc.-III Zoology, has successfully completed project work entitled "**STUDIES ON MAINTAINANCE AND BEHAVIOUR ON PET DOGS**" as a part of completion of graduate degree as prescribed by Solapur University, Solapur in the subject Zoology. He/she took active part and contributed originally in the completion of this report for the academic year 2021-22 for submission and evaluation during final practical examination.

Exam Seat No- 908584



Teacher In-charge



**Dr. R. V. Hippargi**  
(Head, Dept. of Zoology)

**HEAD**  
**DEPARTMENT OF ZOOLOGY**  
Walchand College of Arts & Science  
SOLAPUR - 413 008.

Examiners:

1.

2.



Walchand College of Arts & Science, Solapur (Autonomous)

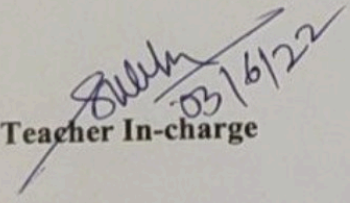
**Department of Zoology**

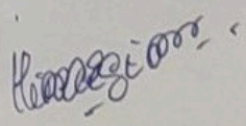
(2021-22)

**Certificate**

This is to certify that Mr. /Ms. /Mrs. **Aishwarya Laxman Raut** Roll No **3914**, B.Sc.-III Zoology, has successfully completed project work entitled "**Study On Pomegranate Insects And Pests**" as a part of completion of graduate degree as prescribed by Solapur University, Solapur in the subject Zoology. He/she took active part and contributed originally in the completion of this report for the academic year 2021-22 for submission and evaluation during final practical examination.

Exam Seat No- **908587**

  
Teacher In-charge

  
Dr. R. V. Hippargi

(Head, Dept. of Zoology)

Examiners:

**HEAD**  
**DEPARTMENT OF ZOOLOGY**  
Walchand College of Arts & Science  
SOLAPUR - 418 004

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**Walchand College of Arts & Science, Solapur (Autonomous)**

**Department of Zoology**

(2021-22)

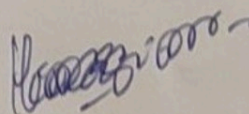
## **Certificate**

This is to certify that Ms. **Sidmal Srushti kiran** Roll No. 3887, B.Sc.-III Zoology, has successfully completed project work entitled **"SNAKE DIVERSITY IN MIDC AREA"** as a part of completion of graduate degree as prescribed by Solapur University, Solapur in the subject Zoology. He/she took active part and contributed originally in the completion of this report for the academic year 2021-22 for submission and evaluation during final practical examination.

**Exam Seat No- 1908612**



**Teacher In-charge**



**Dr. R. V. Hippargi**  
(Head, Dept. of Zoology)

**Examiners:**

**HEAD**  
**DEPARTMENT OF ZOOLOGY**  
Walchand College of Arts & Science  
SOLAPUR - 413 008.

1.

2.



**Walchand College of Arts & Science, Solapur (Autonomous)**

**Department of Zoology**

(2021-22)

**Certificate**

This is to certify that **Miss. Kokate Asha Ram**, Roll No. **3930**, B.Sc.-III Zoology, has successfully completed project work entitled "**Geotaxis behaviour of earthworm**" as a part of completion of graduate degree as prescribed by Solapur University, Solapur in the subject Zoology. He/she took active part and contributed originally in the completion of this report for the academic year 2021-22 for submission and evaluation during final practical examination.

Exam Seat No- **908632**

Teacher In-charge

Dr. S. P. Nawale

Dr. M. O. Mulajkar

*[Signature]*  
17.5.22  
*[Signature]*

*[Signature]*  
30/5/22

**Dr. R. V. Hippargi**

(Head, Dept. of Zoology)

**HEAD**  
**DEPARTMENT OF ZOOLOGY**  
Walchand College of Arts & Science  
SOLAPUR - 413 008

Examiners:

1.

2.



Walchand College of Arts & Science, Solapur (Autonomous)

Department of Zoology

(2021-22)

## Certificate

This is to certify that Miss **Afshan Shaikh** Roll No **3871**, B.Sc.-III Zoology, has successfully completed project work entitled "**Grasshopper in and around Solapur**" as a part of completion of graduate degree as prescribed by Solapur University, Solapur in the subject Zoology. He/she took active part and contributed originally in the completion of this report for the academic year 2021-22 for submission and evaluation during final practical examination.

Exam Seat No-

1908617

*Discreet*  
*30-5-22*  
Teacher In-charge

**Dr Megha Mulajkar**

*Hemant Sir*  
(Head, Dept. of Zoology)

**Dr Hippargi Sir**

Examiners:

1.

2.

**HEAD**  
**DEPARTMENT OF ZOOLOGY**  
Walchand College of Arts & Science  
SOLAPUR - 413 008



Walchand College of Arts & Science, Solapur (Autonomous)

Department of Zoology

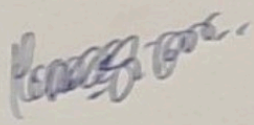
(2021-22)

## Certificate

This is to certify that Ms . Sayama Riyaj Patel, Roll No 3913 , B.Sc.-III Zoology, has successfully completed project work entitled “\_Gir Cow (Cattle Farming)\_” as a part of completion of graduate degree as prescribed by Solapur University, Solapur in the subject Zoology. He/she took active part and contributed originally in the completion of this report for the academic year 202122 for submission and evaluation during final practical examination.

Exam Seat No- 918353

  
Teacher In-charge

  
Dr. R. V. Hippargi

(Head, Dept. of Zoology)

**HEAD**

**DEPARTMENT OF ZOOLOGY**  
Walchand College of Arts & Science  
SOLAPUR - 413 006.

Examiners:

1.

2.



Walchand College of Arts & Science, Solapur (Autonomous)

Department of Zoology

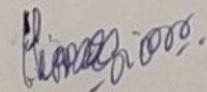
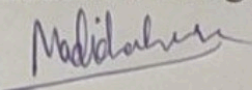
(2021-22)

## Certificate

This is to certify that Mr. Ms. /Mrs. **Priya Shridhar Bogar** Roll No. 3919 B.Sc.-III Zoology, has successfully completed project work entitled **study of Pigeon ( *Columba livia* )** as a part of completion of graduate degree as prescribed by Solapur University, Solapur in the subject Zoology. She took active part and contributed originally in the completion of this report for the academic year 2021-22 for submission and evaluation during final practical examination.

Exam Seat No

Teacher In-charge:



Prof. Dr. R.V. Hippargi

(Head, Dept. of Zoology)

Examiners:

1.

2.

**HEAD**  
**DEPARTMENT OF ZOOLOGY**  
Walchand College of Arts & Science  
SOLAPUR - 413 006.



Walchand College of Arts and Science, Solapur

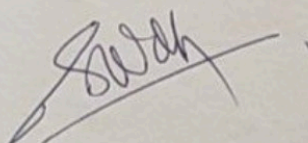
Department Of Zoology.

2021- 22

**CERTIFICATE**

This is to certify that, **Miss. Shweta Gajanan pawar Roll No-3868**, of B. Sc III Zoology has participated in the one day compulsory visit as a part of completion of graduate degree as prescribed by PAH Solapur University, Solapur in the subject zoology. She took active part and contributed in the completion of this report for the academic year 2021-22 for submission and evaluation during final practical examination.

Exam Seat No-



HeadOf The Department

(Dr.R.V.Hippargi)

Examiners:

**HEAD**  
**DEPARTMENT OF ZOOLOGY**  
Walchand College of Arts & Science  
SOLAPUR - 413 008.



Walchand College of Arts & Science, Solapur (Autonomous)

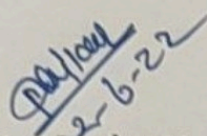
Department of Zoology

(2021-22)

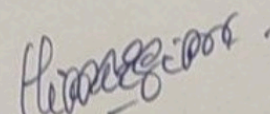
Certificate

This is to certify that Miss Ahmadi Jilanipasha Peerjade Roll No 3874, B.Sc.-III Zoology, has successfully completed project work entitled "Study of Ornamental Fishes in Various Aquarium of Solapur" as a part of completion of graduate degree as prescribed by Solapur University, Solapur in the subject Zoology. He/she took active part and contributed originally in the completion of this report for the academic year 2021-22 for submission and evaluation during final practical examination.

Exam Seat No- 918359

  
Teacher In-charge

Dr Megha Mulajkar

  
(Head, Dept. of Zoology)

Dr Hippargi Sir

Examiners:

1.

2.

**HEAD**  
**DEPARTMENT OF ZOOLOGY**  
Walchand College of Arts & Science  
SOLAPUR - 413 006.



**Walchand College of Arts & Science, Solapur (Autonomous)**


**Department of Zoology**

(2021-22)

## **Certificate**

This is to certify that **Ms. Tejaswini Vijaykumar Mehata**, Roll No.3917 B.Sc.-III Zoology, has successfully completed project work entitled "**Diversity Of birds at Samarth Nagar**" Akkalkot, **Solapur Maharashtra**, as a part of completion of graduate degree as prescribed by Solapur University, Solapur in the subject Zoology. she took active part and contributed originally in the completion of this report for the academic year 2021-22 for submission and evaluation during final practical examination.

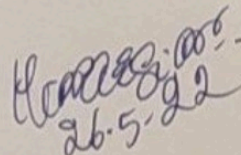
**Exam Seat No-**

  
**Teacher In-charge**

**Examiners:**

1.

2.

  
26.5.22

**Dr. R. V. Hippargi**

(Head, Dept. of Zoology)

**HEAD**  
**DEPARTMENT OF ZOOLOGY**  
**Walchand College of Arts & Science**  
**SOLAPUR - 413 002.**



*"Extraction, synthesis and characterization of bioplastic from chicken feather"*



Shri A.P.D. Jain Pathashala's  
(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

Department of UG Studies in Biotechnology,  
Walchand Centre for Biotechnology

Walchand Hirachand Marg, Ashok Chowk, Solapur - 413006  
Ph.(c) 0217-2651863, 2392198, E-mail: principalwcas@yahoo.co.in  
(Affiliated to P. A. H. Solapur University, Solapur)  
(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No.:

## *Certificate*

This is to certify that *Ms. Afifa A. Balogri, Ms. Rashmi C. Trimbake, Ms. Supratika A. Kundaram, Mr. Sushmit D. Hanchate* have satisfactorily completed the project work entitled *"Extraction, synthesis and characterization of bioplastics from chicken feather"* under the guidance of *Dr. Anil Kumar S. Katti* Assistant Professor, Department of Biotechnology, for the partial fulfilment of the degree of *"Bachelors of Science" in Biotechnology* for P. A. H. Solapur University, Solapur during the academic year 2021-2022

*Project Supervisor*

(Dr. Anil Kumar S. Katti)

*Head of the Department*

(Dr. N. B. Patkar)

*Examiner-1*

*Examiner-2*



Shri A.P.D. Jain Pathashala's Minority Institute  
Department of Biotechnology, Walchand Centre for Biotechnology



Walchand college of Arts & Science, Solapur.

Walchand Hirachand Marg, Ashok Chowk, Solapur – 413006

Ph.(c) 0217-2651863, 2392198, e-mail principalwcas@yahoo.co.in

(Affiliated to solapur University, solapur)

(Accredited A by NAAC)

Exam Seat No. 910040

920544

## Certificate

*This is to certify that Ms. Nameera Farooqui and Ms. Rutuja Bhalchim has satisfactorily completed the project work entitled "To study preliminary phytochemical screening, antibacterial, antifungal and antioxidant activity of Ficus Racemosa". under the guidance of Mr. C.H. Godale, Assistant Professor, Department of Biotechnology, Walchand Center for Biotechnology, Solapur for the partial fulfillment of the degree of "Bachelor of Science" in "Biotechnology" for solapur University, Solapur during the academinc year 2021-2022.*

Project Supervisor

(Mr.C.H. Godale)

Head of the Department

(Dr.N.B. Patkar)





Shri A.P.D. Jain Pathashala's  
(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

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(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)


Exam Seat No: 910037,910055

Date: 07/07/2022

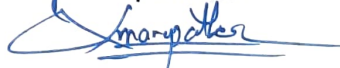
## CERTIFICATE

This is to certify that **Ms. Rifat Sayyed, Ms Ankita Dhanashetti** have satisfactorily carried out the project work entitled "**Phytochemical analysis & antimicrobial activity of leave extract from Clitoria Ternatea**" under the guidance of **Dr. N. B. Patkar**, Head & Assistant professor, Department of Biotechnology, Walchand Center Biotechnology, Solapur for the partial fulfillment of the degree of "**Bachelor of science in Biotechnology**" for P. A. H. Solapur University, Solapur during the academic year 2021-2022.

Project Guide

  
(Dr. N. B. Patkar)

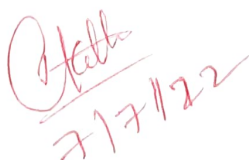
Head of Department

  
(Dr. N. B. Patkar)

Examiner 1:



Examiner 2:







(2021-2022)

Sbri A.P.D. Jain Pathashala's  
(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

**Department of UG Studies in Biotechnology,  
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(Affiliated to P. A. H. Solapur University, Solapur)  
(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

## Certificate

This is to certify that *Ms. Pratiksha D. Shinde, Ms. Isha A. Puranik, Mr. Danish A. Shaikh, Ms. Gouri S. Mandrup, Ms. Swapnali S. Paul and Mr. Kartik R. Dhargude* have satisfactorily completed the project work entitled "**Categorizing molecular features of venom toxins using bioinformatics tools**" under the guidance of *Dr. Vinod P. Sinoorkar* Head & Asst. Professor, Department of Bioinformatics, Walchand college of Arts and science (Autonomous), Solapur, for the partial fulfillment of the degree of "**Bachelors of Science**" in "**Biotechnology**" for P. A. H. Solapur University, Solapur during the academic year 2021-2022

(Dr. Vinod P. Sinoorkar)  
Project Supervisor

(Dr. N. B. Patkar)  
Head of the Department

Examiner-1

Examiner-2





Shri A.P.D. Jain Pathashala's  
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Walchand College of Arts and Science (Autonomous), Solapur

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(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No. : 910753, 910047

## Certificate

This is to certify that Ms. Tejaswini S. Dhaygode, Ms. Vedashri V. Tumma has satisfactorily completed the project work entitled "*Study of the phytochemical analysis, Antimicrobial and Antioxidant activity of peel and pulp of Aegle marmelos*" under the guidance of Mr. C. H. Godale, Assistant Professor, Department of Biotechnology, for the partial fulfillment of the degree of "*Bachelors of Science in Biotechnology*" for P. A. H. Solapur University, Solapur during the academic year 2021-2022

Project Supervisor

Head of the Department

(Mr. C. H. Godale)

Examiner-1

(Dr. N. B. Patkar)

Examiner-2





Shri A.P.D. Jain Pathashala's

(Jain Minority Institute)

Walchand College of Arts and Science (Autonomous), Solapur

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(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No. :

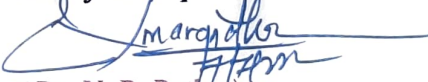
## Certificate

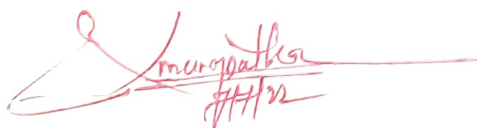
This is to certify that **Mr. Vyankatesh M Kongari, Mr. Tejas S Deshpande, Mr. Saaam Z Manurkar and Ms. Sanjana R Nalawar** have satisfactorily completed the project work entitled **"Isolation of Pesticide Degrading Bacteria from soil."** under the guidance of **Ms. Nikita V. Potabatti**, Assistant Professor, Department of Biotechnology, for the partial fulfillment of the degree of **"Bachelor of Science in Biotechnology"** for P. A. H. Solapur University, Solapur during the academic year 2021-2022

Project Supervisor

  
(Ms. Nikita Potabatti)

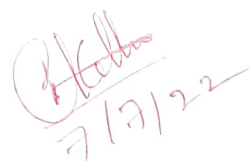
Head of the Department

  
(Dr. N. B. Patkar)



Examiner-1

Examiner-2

  
7/7/22

Shri A. P. D. Jain Pathashala's  
Minority Institute



Department of Biotechnology

Walchand College of Arts and Science, Solapur of Biotechnology

Walchand Hirachand Marg, Ashok Chowk, Solapur - 413006

Ph. (O) 0217-2651863, 2392198, e-mail: [principalwcas@yahoo.co.in](mailto:principalwcas@yahoo.co.in)

(Affiliated to Punyashlok Ahilyadevi Holakar, Solapur University, Solapur)

(Accredited 'A' by NAAC)

## CERTIFICATE

Seat No:910617

This is to certify that **Mr. Sachin Shivanand Kokare** has completed the project work entitled "**Molecular Identification and Characterization of Shot Hole Borer and its associated Fungi in Pomegranate**" under the guidance of **Ms. Nikita Potabatti**, Assistant Prof., Dept. of Biotechnology, Walchand Centre for Biotechnology, Solapur, for the partial fulfilment of the degree of "**Bachelor of Science**" in "**Biotechnology**" for Solapur University, Solapur during the academic year 2021-2022.

  
H.O.D

(Dr. Namdev Patkar)

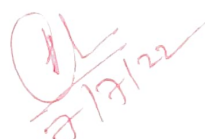
  
Project Guide

(Ms. Nikita Potabatti)

Examiner 1:



Examiner 2:







Shri A.P.D. Jain Pathashala's  
(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

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(Affiliated to P. A. H. Solapur University, Solapur)  
(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No. :910624

## Certificate

This is to certify that *Ms. Bibily John Mathew* have satisfactorily completed the project work entitled "**DNA fingerprinting of commercial pomegranate varieties by using microsatellite markers**" under the guidance of *Dr. N.B.Patkar*, Head of Department of Biotechnology, for the partial fulfillment of the degree of "**Bachelors of Science in Biotechnology**" for P. A. H. Solapur University, Solapur during the academic year 2021-2022

Project Supervisor

(Dr. N. B. Patkar)

Head of the Department

(Dr. N. B. Patkar)

Examiner-1

Examiner-2

  
7/7/22



Shri A.P.D. Jain Pathashala's

(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

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(Affiliated to P. A. H. Solapur University, Solapur)

**(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)**

Exam Seat No. : 210611

## Certificate

This is to certify that **Mr. Kalshetti Onkar Iranna** has satisfactorily completed the project work entitled **"Efficiency of SSR markers to assess the genetic diversity of pomegranate genotypes"** under the guidance of **Dr. Vaishali A. Gargade**, Assistant Professor, Department of Biotechnology, for the partial fulfillment of the degree of **"Bachelors of Science" in Biotechnology** for P. A. H. Solapur University, Solapur during the academic year 2021-2022.


  
Project Supervisor

  
Head of the Department

(Dr. Vaishali A. Gargade)

(Dr. N. B. Patkar)

  
Examiner-1

  
Examiner-2 7/27/22





Shri A.P.D. Jain Pathashala's  
(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

Department of UG Studies in Biotechnology,  
Walchand Centre for Biotechnology

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(Affiliated to P. A. H. Solapur University, Solapur)  
(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No. :910046

## Certificate

This is to certify that *Ms. Meghna Rajendra Gajul* has satisfactorily completed the project work entitled "**Isolation and Identification of Entomopathogenic Fungus and Bacteria**" under the guidance of *Dr. Anil Kumar S. Katti*, Assistant Professor, Department of Biotechnology, for the partial fulfillment of the degree of "**Bachelor of Science in Biotechnology**" for P. A. H. Solapur University, Solapur during the academinc year 2021-2022.

**Project Supervisor**

(Dr. Anil Kumar S. Katti)

**Head of the Department**

(Dr. N. B. Patkar)

Examiner-1

Examiner-2

7/7/22



Shri A.P.D. Jain Pathashala's  
(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

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(Affiliated to P. A. H. Solapur University, Solapur)

(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No. : 910033

### *Certificate*

*This is to certify that Ms. Janhavi Pravin Patel have satisfactorily completed the project work entitled "Screening Pomegranate (*Punica granatum L.*) accessions for salt tolerance and assessing physiological, morphological, and bio-chemical characteristics." under the guidance of Ms. Prajakta Kulkarni, Assistant Professor, Department of Biotechnology, for the partial fulfillment of the degree of "Bachelors of Science" in Biotechnology" for P. A. H. Solapur University, Solapur during the academinc year 2021-2022*

**Project Supervisor**

**(Ms. Prajakta Kulkarni)**

**Head of the Department**

**(Dr. N. B. Patkar)**

1)

2)   
7/7/22



Shri A.P.D. Jain Pathashala's Minority Institute  
Department of Biotechnology, Walchand Centre for Biotechnology



Walchand college of Arts & Science, Solapur.

Walchand Hirachand Marg, Ashok Chowk, Solapur – 413006  
Ph.(c) 0217-2651863, 2392198, e-mail principalwcas@yahoo.co.in  
(Affiliated to solapur University, solapur)  
(Accredited A by NAAC)

Exam Seat No.

## Certificate

*This is to certify that Mr. Mohit R. Malwadkar, Mr. Pratik P. Kshirsagar, Ms. Seema J. Shaikh, Ms. Bhagyashri G. Lokhande has satisfactorily completed the project work entitled “Phytochemical Analysis & Antibacterial Activity of Tabebuia Pallida & Hiptage Benghalensis” under the guidance of Dr. N. B. Patkar Head & Assistant Professor, Department of Biotechnology, Walchand Center for Biotechnology, Solapur for the partial fulfillment of the degree of “Bachelor of Science” in “Biotechnology” for Solapur University, Solapur during the academic year 2021-2022.*

Project Supervisor

A blue ink signature of Dr. N. B. Patkar.

(Dr. N. B. Patkar)

Head of the Department

A blue ink signature of Dr. N. B. Patkar.

(Dr. N. B. Patkar)

A red ink signature of Examiner 1.

Examiner 1

Examiner 2

A red ink signature of Examiner 2.  
7/7/22



Shri A.P.D. Jain Pathashala's

(Jain Minority Institute)

Walchand College Of Arts and Science (Autonomous), Solapur

Department of UG Studies in Biotechnology,

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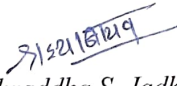
( NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC )

Exam Seat No:910031,910042,910035,910030.

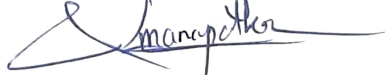
## Certificate

*This is to certify that Ms. Pravalika A. Adam, Ms. Minnushri H. Dasari, Ms. Minal N. Vasi, Mr. Shriniwas S. Gajjam has satisfactorily completed the project workentitled "Formulation and evaluation of anti aging face gel by using algal powder extract. (spirulina pletensis and arthospora pletensis)" under the guidance of Miss.Shraddha S. Jadhav, Assistant Professor, Department of Biotechnology, Walchand Center for Biotechnology, Solapur for the partial fulfillment of the degree of "Bacholars of Science" in "Biotechnology" for solapur University, Solapur during the academinc year 2021-2022*

Project Supervisor

  
(Ms. Shraddha S. Jadhav)

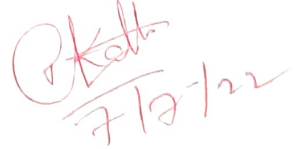
Head of the Departments

  
(Dr.N.B. Patkar)

Examinor1



Examinor2







Shri A.P.D. Jain Pathashala's  
(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

**Department of UG Studies in Biotechnology,  
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(Affiliated to P. A. H. Solapur University, Solapur)  
(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No. :910039,910034,910612,910623

## Certificate

This is to certify that **Ms. Namrata Siddharam Babanagare, Ms. Tejal Bappaji Pawar, Ms. Saniya Iliyas Shamshapure and Mr. Swapnil Lahu Londhe** have satisfactorily completed the project work entitled **"IN SILICO IDENTIFICATION OF DELETERIOUS SNPs IN TP53 GENE IN HUMAN LUNG CANCER"** under the guidance of **Mr. Y. N. Joshi**, Assistant Professor, Department of Biotechnology, for the partial fulfillment of the degree of **"Bachelors of Science" in Biotechnology** for P. A. H. Solapur University, Solapur during the academinc year 2021-2022

**Project Supervisor**

(Mr. Y.N. Joshi)

  
Examiner-1

**Head of the Department**

(Dr. N. B. Patkar)

**Examiner-2**

  
21/7/22



Shri A.P.D. Jain Pathashala's  
(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

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(Affiliated to P. A. H. Solapur University, Solapur)  
(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No: 910751, 910023, 910022, 910625

Date: 07/07/2022

**CERTIFICATE**

This is to certify that **Ms. Shrilekha R. Madur, Ms. Nikita P. Guttikonda, Ms. Nahid Fatima A. Syed and Ms. Tejashri S. Mudgundi** have satisfactorily carried out the project work entitled "**Biological synthesis of silver nanoparticles from *Dracaena trifasciata* (snake plant) and its applications**" under the guidance of **Dr. Archana S. Injal**, Assistant professor, Department of Genetics, Walchand Center Biotechnology, Solapur for the partial fulfillment of the degree of "**Bachelor of science in Biotechnology**" for **P. A. H. Solapur University, Solapur** during the academic year **2021-2022**.

Project Guide

  
(Dr. Archana S. Injal)

Head of Department

  
(Dr. N. B. Patkar)

Examiner 1:

  
7/7/22

Examiner 2:

  
7/7/22





Shri A.P.D. Jain Pathashala's  
(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

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(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No. : 910051,  
910029, 910024, 910626

## *Certificate*

*This is to certify that Ms. Lavanya A. Vallakati, Ms. Vaishnavi P. Vaikunte, Ms. Devyani S. Burla, Mr. Yashwant R. Joshi have satisfactorily completed the project work entitled "Extraction and Screening of Bioactive Compounds from Pomegranate Peel" under the guidance of Ms. Vrushali V. Dhoble, Assistant Professor, U.G. Department of Biotechnology, for the partial fulfillment of the degree of "Bachelor of Science" in Biotechnology for P. A. H. Solapur University, Solapur during the academic year 2021-2022.*

*Vrushali*  
Project Supervisor

(Ms. V.V. Dhoble)

*Dr. N.B. Patkar*  
Head of the Department

( Dr. N.B. Patkar)

Examiner-1

*Dr. N.B. Patkar*  
7/7/22

Examiner-2

*Dr. N.B. Patkar*  
7/7/22



Shri A.P.D. Jain Pathashala's  
(Jain Minority Institute)

Walchand College of Arts and Science (Autonomous), Solapur

Department of UG Studies in Biotechnology,

Walchand Centre for Biotechnology

Walchand Hirachand Marg, Ashok Chowk, Solapur - 413006  
Ph.(c) 0217-2651863, 2392198, E-mail: principalwcas@yahoo.co.in  
(Affiliated to P. A. H. Solapur University, Solapur)  
(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No. :910059, 910328, 910616, 805199

## Certificate

This is to certify that Ms. Supriya S. Bokade, Ms. Sumaiyaa S. Patel, Mr. Vinayak S. Kukdya, and Mr. Abhishek S. Myana have satisfactorily completed the project work entitled "Isolation of Fungi on Fish Scale and Mushroom Waste" under the guidance of Dr. Vaishali A. Gargade, Assistant Professor, Department of Biotechnology, for the partial fulfillment of the degree of "Bachelors of Science" in Biotechnology" for P. A. H. Solapur University, Solapur during the academic year 2021-2022

  
Project Supervisor

(Dr. Vaishali A. Gargade)

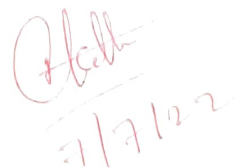
  
Head of the Department

(Dr. N. B. Patkar)

Examiner-1

  
7/7/22

Examiner-2

  
7/7/22



Shri A.P.D. Jain Pathashala's  
Minority Institute



Department of Biotechnology,  
Walchand Centre for Biotechnology

**WALCHAND COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS), SOLAPUR**

Walchand Hirachand Marg, Ashok Chowk, Solapur – 413006  
Ph.(c) 0217-2651863, 2392198, e-mail principalwcas@yahoo.co.in  
(Affiliated to solapur University, solapur)  
(Accredited "A" by NAAC)

Exam Seat No. : 805852, 910050, 910054, 910610, 910749

***Certificate***

*This is to certify that Mr. Naval Pasnur, Mr. Amey Myakal, Ms. Prachi Uddansinh, Ms. Samradhni Tawati, Ms. Saniya Shaikh has satisfactorily completed the project work entitled "Production and quantification of pectinase from bacteria isolated and characterized from rotten tomato." under the guidance of Ms. Aparna Bhairappa, Assistant Professor, Department of Biotechnology, Walchand Center for Biotechnology, Solapur for the partial fulfillment of the degree of "Bachelor of Science in Biotechnology" for Punyashlok Ahilyadevi Holkar solapur University, Solapur during the academinc year 2021-2022.*

*Aparna*  
7/7/22  
**Project Guide**

*N. B. Patkar*  
**Head of the Department**

**(Ms. Aparna Bhairappa)**

**( Dr. N. B. Patkar)**

**Examiner-1**

*N. B. Patkar*  
7/7/22

**Examiner-2**

*Patkar*  
7/7/22

Shri A.P.D. Jain Pathashala's  
Minority Institute



Department of Biotechnology,  
Walchand Centre for Biotechnology

Walchand College Of Arts and Science(Autonomous) , Solapur.

Walchand Hirachand Marg, Ashok Chowk, Solapur - 413006  
Ph.(c) 0217-2651863, 2392198, e-mail: principalwcas@yahoo.co.in  
(Affiliated to solapur University, solapur)  
(Accredited "A" by NAAC)

Exam Seat No: 910750, 910025  
910017, 910053, 918356

## Certificate

This is to certify that **Mr. Rohan k. Yelutala, Ms.Kalyani P.Channa, Ms.Seema R. Sandal, Ms.AafrinY.Mulla, Ms.Sneha R. Mashalkar** has satisfactorily completed the project work entitled "**Production of Biofertilizers by using Rhizobium and Azotobacter.**" under the guidance of **Miss. Mrinal Chakre.**, Assistant Professor, Department of Biotechnology, Walchand Center for Biotechnology, Solapur for the partial fulfillment of the degree of "**Bachelors of Science in Biotechnology**" for PAH Solapur University, Solapur during the academinc year 2021-2022.

**PROJECT GUIDE**

(**Miss. Mrinal Chakre**)

**HEAD OF DEPARTMENT**

(**Dr. N. B. Patkar**)

Examiner-1

Examiner-2





Shri A.P.D. Jain Pathashala's

(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

Department of UG Studies in Biotechnology.

Walchand Centre for Biotechnology

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(Affiliated to P. A. H. Solapur University, Solapur)

(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No. :

## Certificate

This is to certify that *Ms. Gautami.L.Udgiri, Muskan.I.Sayyed, Prajakta.M.Kabade, Pratiksha.G.Jadhav, Sakshi.B.Kadam, Sumati.V.Kulkarni, Tasmiya.J.Maniyar* have satisfactorily completed the project work entitled **"Insilico characterization and Homology modelling of paired box protein involved in Human Anthrax"** under the guidance of *Mr. Someshwar.M.Moholkar*, Assistant Professor, Department of Bioinformatics, for the partial fulfillment of the degree of **"Bachelors of Science" in Biotechnology"** for P. A. H. Solapur University, Solapur during the academic year 2021-2022

Project Supervisor

Head of the Department

(*Mr. Someshwar.M.Moholkar*)

(*Dr.N.B.Patkar*)

Examiner-1

Examiner-2

  
9/7/22

**Punyashlok Ahilyadevi Holkar Solapur University**

**Solapur**

**A Project Report**

**On**

**Study on Synthesis of Budesonide and Their Analysis Methods in  
Quality Control Department**

**For the partial fulfillment of the award of degree of**

**Master of Science**

**In**

**Inorganic Chemistry**

**Submitted by**

**Miss. Laxmi Pandit Patil**

**M.Sc II (Inorganic Chemistry)**

**Roll No. 4605**

**Under the Guidance of**

**Dr. S.D. Mitragotri**

**(M.Sc. Ph.D. M.BA. SET. NET. GATE)**

**Department of Chemistry,**

**Walchand College of Arts and Science, Solapur**

**(Autonomous)**

**2021-2022**





Punyashlok Ahilyadevi Holkar Solapur University,  
Solapur

A Project Report On

**"Study of Process of Manufacturing of  
Telmisartan"**

For the partial fulfillment of the award of degree of

**Master of Science**

**In**

**Inorganic Chemistry**

Submitted by

**Miss. Kajal J. Jadhav**

**M.Sc. II (Inorganic Chemistry)**

**Roll. No. 4602**

Under the Guidance of

**Dr. S. D. Mitragotri**

**(M.Sc. Ph.D. M.B.A. SET. NET. GATE)**

**Department of Chemistry,**

**Walchand College of Arts and Science, Solapur**

**2021-2022**



**Punyashlok Annyadevi Holkar Solapur**

**University, Solapur**

**A Project Report On**

**Study of Analytical Instruments and Analysis of  
Mixed bed and Water Sample from Plant by  
Some Analytical Methods**

**for the purpose of fulfillment of the award of degree of**

**Master of Science**

**In**

**Inorganic Chemistry**

**Submitted by**

**Miss. Anjali Mahadev Dikasangi**

**M.Sc. II (Inorganic Chemistry)**

**Roll No. 4614**

**Under the Guidance of**

**Dr. S. D. Mitragotri**

**(M. Sc., Ph. D., M. B. A., SET, NET, GATE)**

**Head of the Department,  
Department of Chemistry,**

**Walchand College of Arts and Science, Solapur**

**(Autonomous)**

**2021-2022**





**A Project Report on  
Studies of QC and QA Department of  
Vamsi Labs Ltd.**

**For the Partial Fulfillment Of the award of  
degree of  
Master of Science**

**In  
Inorganic Chemistry**

**Submitted By**

**Miss.Varsha Gurunath Awatade**

**M.Sc. II ( Inorganic Chemistry)**

**Roll No.4615**

**Under the Guidance of**

**Dr. S.D. Mitragotri**

**(M.Sc.,Ph.D.,M.B.A,SET,NET,GATE)**

**Department of Chemistry**

**Walchand College of Arts and Science, Solapur**

**2021-2022**



**A Project Report on**  
**Studies of QC and QA Department of**  
**Vamsi Labs Ltd.**  
**For the Partial Fulfillment Of the award of**  
**degree of**  
**Master of Science**  
**In**  
**Inorganic Chemistry**  
**Submitted By**  
**Miss.Shilpa Balu Rathod**  
**M.Sc. II ( Inorganic Chemistry)**  
**Roll No.4601**  
**Under the Guidance of**  
**Dr. S.D. Mitragotri**  
**(M.Sc.,Ph.D.,M.B.A,SET,NET,GATE)**  
**Department of Chemistry**  
**Walchand College of Arts and Science, Solapur**  
**2021-2022**





**A Project Report On  
“Study of Process of Manufacturing  
of Aspirin”**

**For the Partial fulfilment of the award of  
degree of**

**Master of Science  
In  
Inorganic Chemistry**

**Submitted by  
Miss. Juwairiya Asif Iqbal Shaikh  
M.Sc. II (Inorganic Chemistry)  
Roll No. 4606**

**Under the Guidance of  
Dr. S. D. Mitragotri  
(M.Sc, Ph.D, M.B.A, SET, NET, GATE)**

**Department of Chemistry  
Walchand College of Arts and Science, Solapur  
2021-2022**



Punyashlok Ahilyadevi Holkar Solapur University,  
Solapur

A Project Report On

**"Study of Process of Manufacturing of  
Telmisartan"**

For the partial fulfillment of the award of degree of  
**Master of Science**

In

**Inorganic Chemistry**

Submitted by

**Miss. Vimal R. Swami**

**M.Sc. II (Inorganic Chemistry)**

Roll. No. 4607

Under the Guidance of

**Dr. Rekha Ovhal**

**(M.Sc., Ph.D.)**

Department of Chemistry,

Walchand College of Arts and Science, Solapur

2021-2022



A Project Report  
On  
**"STUDY OF PROCESS OF MANUFACTURING OF  
ASPIRIN"**

For the Partial fulfilment of the award of degree of

**Master of Science**  
In  
**Inorganic Chemistry**

Submitted by  
**Mr. L. D. Ratanpalke**  
**M.Sc. II (Inorganic Chemistry)**  
**Roll No. 4623**

Under the Guidance of  
**Dr. R. M. Ovhal**  
**M.Sc., Ph.D.**

**Department of Chemistry**  
**Walchand College of Arts and Science (Autonomous),**  
**Solapur**  
**2021-2022**

A Project Report on

**“Synthesis and Characterization of Ni (II) Schiff  
base metal complexes”**

For the partial fulfillment of the award of degree of

**Master of Science**

In

**Inorganic Chemistry**

SUBMITTED BY

**Mr. Sayyed Asif Saleem**

Under the Guidance of

**Dr. Mrs. M. M. Asabe**

M.Sc., Ph.D.

Department of Chemistry,

**Walchand College of Arts and Science, Solapur**

**2021-22**



A Project Report on

**“Synthesis and Characterization of Ni (II) Schiff  
base metal complexes”**

For the partial fulfillment of the award of degree of

**Master of Science**

In

**Inorganic Chemistry**

SUBMITTED BY

**Ms. Dhekale Tejashri Uddhav**

Under the Guidance of

**Dr. Mrs. M. M. Asabe**

M.Sc., Ph.D.

Department of Chemistry,

Walchand College of Arts and Science, Solapur

**2021-22**

A Project Report  
On  
**"STUDY OF PROCESS OF MANUFACTURING OF  
ASPIRIN"**

For the Partial fulfilment of the award of degree of

**Master of Science**  
**In**  
**Inorganic Chemistry**

Submitted by  
**Miss. A. H. Nadaf**  
**Mr. A. V. Kamale**  
**M.Sc. II (Inorganic Chemistry)**

Under the Guidance of  
**Dr. M. M. Jagadale**  
**M.Sc., Ph.D.**

Department of Chemistry  
Walchand College of Arts and Science (Autonomous),  
Solapur  
**2021-2022**



A Project Report on

**“Synthesis and Characterization of Ni (II) Schiff  
base metal complexes”**

For the partial fulfillment of the award of degree of

**Master of Science**

**In**

**Inorganic Chemistry**

**SUBMITTED BY**

**Ms. Sabahat M. Sadique Katanghar**

**Under the Guidance of**

**Dr. Mrs. M. M. Asabe**

**M.Sc., Ph.D.**

**Department of Chemistry,**

**Walchand College of Arts and Science, Solapur**

**2021-22**

A Project Report  
On  
**"STUDY OF PROCESS OF MANUFACTURING OF  
ASPIRIN"**

For the Partial fulfilment of the award of degree of

**Master of Science**  
**In**  
**Inorganic Chemistry**

Submitted by  
**Mr. A. V. Kamale**  
**M.Sc. II (Inorganic Chemistry)**  
**Roll No. 4626**

Under the Guidance of  
**Dr. M. M. Jagadale**  
**M.Sc., Ph.D.**

Department of Chemistry  
Walchand College of Arts and Science (Autonomous),  
Solapur  
**2021-2022**



A Project Report on

**“Synthesis and Characterization of Ni (II) Schiff  
base metal complexes”**

For the partial fulfillment of the award of degree of

**Master of Science**

**In**

**Inorganic Chemistry**

**SUBMITTED BY**

**Ms. Pyati Bhagyashri Shrimant**

**Under the Guidance of**

**Dr. Mrs. M. M. Asabe**

**M.Sc., Ph.D.**

**Department of Chemistry,**

**Walchand College of Arts and Science, Solapur**

**2021-22**

Punyashlok Ahilyadevi Holkar Solapur  
University, Solapur

A Project Report On

Study of Analytical Instruments and Analysis of  
Mixed bed and Water Sample from Plant by  
Some Analytical Methods

For the partial fulfillment of the award of degree of  
Master of Science

In

Inorganic Chemistry

Submitted by

Miss. Seema Siddharam Birajdar

M.Sc. II (Inorganic Chemistry)

Roll No. 4621

Under the Guidance of

Dr. M. R. Asabe

(M. Sc., Ph. D.)

Associate Professor,

Department of Chemistry,

Walchand College of Arts and Science, Solapur

(Autonomous)

2021-2022



A Project Report on

**"Synthesis and Characterization of Cu (II) Schiff  
base metal complexes"**

For the partial fulfillment of the award of degree of

**Master of Science**

In

**Inorganic Chemistry**

SUBMITTED BY

Miss. Kamble M. A.

Under the Guidance of

**Dr. M. R. Asabe**

M.Sc., Ph.D.

Department of Chemistry,

Walchand College of Arts and Science, Solapur

**2021-22**

**Punyashlok Ahilyadevi Holkar Solapur  
University, Solapur**

**A Project Report On**

**Study of Analytical Instruments and Analysis of  
Mixed bed and Water Sample from Plant by  
Some Analytical Methods**

**For the partial fulfillment of the award of degree of**

**Master of**

**Science In**

**Inorganic Chemistry**

**Submitted by**

**Miss. Rajani Rajesh Jadhav**

**M.Sc. II (Inorganic Chemistry)**

**Roll No. 4610**

**Under the Guidance of**

**Dr. M. R. Asabe**

**(M. Sc., Ph. D.)**

**Associate Professor,**

**Department of Chemistry,**

**Walchand College of Arts and Science, Solapur**

**(Autonomous)**

**2021-2022**



A Project Report on

**“Synthesis and Characterization of Cu (II) Schiff  
base metal complexes”**

For the partial fulfillment of the award of degree of

**Master of Science**

In

**Inorganic Chemistry**

SUBMITTED BY

Miss. Rajmane R.A.

Under the Guidance of

**Dr. M. R. Asabe**

M.Sc., Ph.D.

Department of Chemistry,

Walchand College of Arts and Science, Solapur

**2021-22**

Punyashlok Ahilyadevi Holkar Solapur University

Solapur

A Project Report

On

**Study on Synthesis of Budesonide and Their Analysis Methods in  
Quality Control Department**

For the partial fulfillment of the award of degree of

**Master of Science**

**In**

Inorganic Chemistry

Submitted by

**Miss. Choudeshwari Mahadev Choragi**

M.Sc II (Inorganic Chemistry)

Roll No. 4616

Under the Guidance of

**Dr. V.T. Vader**

**(M.Sc., Ph.D., SET, D.MCJ)**

Associate Professor,

Department of Chemistry,

Walchand College of Arts and Science, Solapur

(Autonomous)

2021-2022



Punyashlok Ahilyadevi Holkar Solapur University

Solapur

A Project Report

On

**Study on Synthesis of Budesonide and Their Analysis Methods in  
Quality Control Department**

For the partial fulfillment of the award of degree of

**Master of Science**

**In**

Inorganic Chemistry

Submitted by

**Miss. Shweta Gangadhar Karjole**

**M.Sc II (Inorganic Chemistry)**

**Roll No. 4604**

Under the Guidance of

**Dr. V.T. Vader**

**(M.Sc., Ph.D., SET, D.MCI)**

Associate Professor,

Department of Chemistry,

Walchand College of Arts and Science, Solapur

(Autonomous)

**2021-2022**

Punyashlok Ahilyadevi Holkar Solapur  
University, Solapur  
A Project Report On

"Study of Process of Manufacturing of  
Telmisartan"

For the partial fulfillment of the award of  
degree of

Master of Science

In

Inorganic Chemistry

Submitted by

Miss. Savita C. Mhetre

M.Sc. II (Inorganic Chemistry)

Roll. No. 4603

Under the Guidance of

Dr. V. T. Vader

(M.Sc., Ph.D., SET)

Department of Chemistry,  
Walchand College of Arts and Science,  
Solapur

2021-2022



A Project Report On  
**“Pharmaceutical Firm”**

For the Partial Fulfilment of the award of  
degree of

**Master of Science**  
**In**  
Inorganic Chemistry

Submitted by  
Miss. U.S. Shaikh  
M.Sc. (Inorganic Chemistry)

Under the Guidance of  
**Dr.Mrs.R.M.Ovhal**  
**M.Sc., Ph.D.**

Department of Chemistry  
Walchand college of Arts and Science, Solapur  
2021-2022

A Project Report  
On  
**"STUDY OF PROCESS OF MANUFACTURING OF  
ASPIRIN"**

For the Partial fulfilment of the award of degree of

**Master of Science  
In  
Inorganic Chemistry**

Submitted by  
**Miss. Z. Z. Mujawar  
Mr. L. D. Ratanpalke  
M.Sc. II (Inorganic Chemistry)**

Under the Guidance of  
**Dr. R. M. Ovhal  
M.Sc., Ph.D.**

Department of Chemistry  
Walchand College of Arts and Science (Autonomous),  
Solapur  
**2021-2022**



**A Project Report on**

**“Synthesis and Characterization of Ni (II) Schiff  
base metal complexes”**

**For the partial fulfillment of the award of degree of**

**Master of Science**

**In**

**Inorganic Chemistry**

**SUBMITTED BY**

**Mr. Rathod Vishal Harishchandra**

**Under the Guidance of**

**Dr. Mrs. M. M. Asabe**

**M.Sc., Ph.D.**

**Department of Chemistry,**

**Walchand College of Arts and Science, Solapur**

**2021-22**

Shri A.P.D. Jain Pathashala's  
Minority Institute



Department of Genetics,  
Walchand Centre for Biotechnology

Walchand Hirachand Marg, Ashok Chowk, Solapur – 413006  
Ph.(c) 0217-2651863, 2392198, e-mail principalwcas@yahoo.co.in  
(Affiliated to solapur University, solapur)  
(Accredited "A" by NAAC)

Exam Seat No. : 1608682

## Certificate

This is to certify that **Kalpna Medpalli** has satisfactorily completed the project work entitled **"Phytochemical, Antimicrobial analysis and Essential oil Extraction of Plant extract of Piper betel"** under the guidance of **Ms. Mrinal Chakre**, Assistant Professor, Department of Genetics, Walchand Center for Biotechnology, Solapur for the partial fulfillment of the degree of **"Master of Science in Genetics"** for Punyashlok Ahilyadevi Holkarsolapur University, Solapur during the academic year 2021-2022.

Project Supervisor

Ms. Mrinal Chakre

Incharge of the Department

Dr. A. S. Injal

Examiner-1

  
4/7/22

Examiner-2

  
4/7/2022



Shri A.P.D. Jain Pathashala's  
Minority Institute



Department of Genetics,  
Walchand Centre for Biotechnology

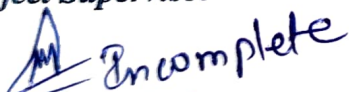
Walchand College of Arts & Science, Solapur  
Walchand Hirachand Marg, Ashok Chowk, Solapur – 413006  
Ph.(c) 0217-2651863, 2392198, e-mail principalwcas@yahoo.co.in  
(Affiliated to solapur University, solapur)  
(Accredited "A" by NAAC)

Exam Seat No. : 1606357

## Certificate

This is to certify that **Savita Datta Anuse** has satisfactorily completed the project work entitled "**Antimicrobial activity of plant *Neem* and *Tulshi***" under the guidance of **Ms. Mrinal Chakre**, Assistant Professor, Walchand Center for Biotechnology, Solapur for the partial fulfillment of the degree of "**Master of Science in Genetics**" for **Punyashlok Ahilyadevi Holkar** solapur University, Solapur during the academinc year 2021-2022.

Project Supervisor

  
**Ms. Mrinal Chakre**

Incharge of the Department

  
**Dr. A.S. Injal**

Examiner-1



Examiner-2



Shri A.P.D. Jain Pathashala's  
Minority Institute



Department of Genetics,  
Walchand Centre for  
Biotechnology, Solapur

Walchand Hirachand Marg, Ashok Chowk, Solapur - 413006  
Ph.(c) 0217-2651863, 2392198, e-mail: principalwcas@yahoo.co.in  
(Affiliated to PAH solapur University, solapur)  
(Accredited "A" by NAAC)

Roll No. : 5093

EXAME SEAT NO. :

## Certificate

This is to certify that **Mr. RAHUL VILAS GUNDLA** has satisfactorily completed the project work entitled under the guidance of **DR. VAISHALI GARGADE** Assistant Professor, Department of Biotechnology, Walchand Center for Biotechnology, Solapur for the partial fulfillment of the degree of "**Master of Science in Genetics**" for Punyashlok Ahilyadevi Holkar Solapur University, Solapur during the academic year 2021-2022.

PROJECT SUPERVISOR

DR. VAISHALI GARGADE

Incharge of the

DR. ARCHANA INJAL

Examiner-1

Examiner-2

Shri A.P.D. Jain Pathashala's  
Minority Institute



Department of Genetics,  
Walchand Centre for Biotechnology

Walchand Hirachand Marg, Ashok Chowk, Solapur – 413006  
Ph.(c) 0217-2651863, 2392198, e-mail principalwcas@yahoo.co.in  
(Affiliated to solapur University, solapur)  
(Accredited "A" by NAAC)

Exam Seat No. : 1716238

## Certificate

This is to certify that **Miss Mamta Anand Kudkyl** has satisfactorily completed the project work entitled "**Multifacial applications of Pineapple Peel**" under the guidance of **Mrs. Vaishali Gargade**, Assistant Professor, Department of Genetics, Walchand Center for Biotechnology, Solapur for the partial fulfillment of the degree of "**Master of Science in Genetics**" for Punyashlok Ahilyadevi Holkar solapur University, Solapur during the academinc year 2021-2022.

Project Supervisor

Mrs. Vaishali Gargade

Incharge of the Department

Dr. Archana. S. Injal

Examiner-1

  
4/7/2022

Examiner-2

  
4/7/2022





Shri A.P.D. Jain Pathashala's  
(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

Department of PG Studies in Genetics,  
Walchand Centre for Biotechnology

Walchand Hirachand Marg, Ashok Chowk, Solapur - 413006

Ph.(c) 0217-2651863, 2392198, E-mail: principalwcas@yahoo.co.in

(Affiliated to P. A. H. Solapur University, Solapur)

(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No. : 1614565

## ***Certificate***

*This is to certify that Miss. Vasundhara Swamirao Jangalgi have satisfactorily completed the project work entitled "Isolation of endophytes & from Nelumbo nucifera and its Applications" under the guidance of Dr. Archana. S. Injal, Assistant Professor, P.G. Department of Genetics, for the partial fulfillment of the degree of "Master of Science" in Genetics for P. A. H. Solapur University, Solapur during the academinc year 2021-2022*

**Project Supervisor**

(Dr. Archana. S. Injal)

**Head of the Department**

(Dr. Archana. S. Injal)

**Examiner-1**

**Examiner-2**



Shri A.P.D. Jain Pathashala's  
(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

Department of PG Studies in Genetics,  
Walchand Centre for Biotechnology

Walchand Hirachand Marg, Ashok Chowk, Solapur - 413006  
Ph.(c) 0217-2651863, 2392198, E-mail: principalwcas@yahoo.co.in  
(Affiliated to P. A. H. Solapur University, Solapur)  
(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No. : 1718487

## Certificate

This is to certify that **Ms. Pratiksha Shivaji Shinde** has satisfactorily completed the project work entitled "**Isolation of Endophytic Bacteria and study of Secondary Metabolites from *Ocimum sanctum***" under the guidance of **Dr. Archana S. Injal** Assistant Professor, P.G. Department of Biotechnology, for the partial fulfillment of the degree of "**Master of Science**" in **Genetics** for P. A. H. Solapur University, Solapur during the academic year 2021-2022

Project Supervisor

(Dr. Archana S. Injal)

Head of the Department

(Dr. Archana S. Injal)

Examiner-1

  
4/1/22

Examiner-2

  
4/1/2022



Shri A.P.D. Jain Pathashala's  
(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

Department of PG Studies in Genetics,  
Walchand Centre for Biotechnology

Walchand Hirachand Marg, Ashok Chowk, Solapur - 413006  
Ph.(c) 0217-2651863, 2392198, E-mail: principalwcas@yahoo.co.in  
(Affiliated to P. A. H. Solapur University, Solapur)  
(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No. :1716239

## Certificate

This is to certify that *Ms. Gaytri Ramesh Vadnal* have satisfactorily completed the project work entitled **"Comparative Study Of Phytochemical Analysis And Antimicrobial Activity Of Cuminum Cyminum and Carum Carvi Seeds."** under the guidance of *Mr. C.H. Godale*, Assistant Professor, P.G. Department of Genetics, for the partial fulfillment of the degree of **"Master of Science" in Genetics** for P. A. H. Solapur University, Solapur during the academinc year 2021-2022

**Project Supervisor**

(Mr. C.H. Godale)

**Head of the Department**

(Dr. Archana S. Injal)

**Examiner-1**

**Examiner-2**





Shri A.P.D. Jain Pathashala's

(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

Department of PG Studies in Genetics,

**Walchand Centre for Biotechnology**

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(Affiliated to P. A. H. Solapur University, Solapur)

**(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)**

Exam Seat No. : 1711859

## Certificate

This is to certify that **Ms. Rani B. Chavan** have satisfactorily completed the project work entitled **"Extraction and Characterization of Bioactive Compounds from lemon peel"** under the guidance of **Ms. Vrushali V. Dhoble**, Assistant Professor, P.G. Department of Biotechnology, for the partial fulfillment of the degree of **"Master of Science" in Genetics** for P. A. H. Solapur University, Solapur during the academinc year 2021-2022

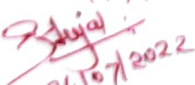
  
Project Supervisor

(Ms. V.V. Dhoble)

Head of the Department

  
( Dr. A. S. Injal)

Examiner-1   
4/7/22

Examiner-2   
04/07/2022



Shri A.P.D. Jain Pathashala's  
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(Affiliated to P. A. H. Solapur University, Solapur)  
(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No. : 1610445

## Certificate

This is to certify that **Miss. Gayatri Sanjiv Meru** have satisfactorily completed the project work entitled "**Antimicrobile activity of *Nyctanthes arbor-tristis L.***" under the guidance of **Ms. Shraddha Jadhav**, Assistant Professor, P.G. Department of Genetics, for the partial fulfillment of the degree of "**Master of Science**" in **Genetics** for P. A. H. Solapur University, Solapur during the academinc year 2021-2022


**Project Supervisor**

  
(Ms. Shraddha Jadhav)


**Head of the Department**

  
(Dr. Archana. S. Injal)

**Examiner-1**

  
4/7/2022

**Examiner-2**

  
4/7/2022



Shri A.P.D. Jain Pathashala's  
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(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No. : 2014802

## Certificate

*This is to certify that Ms. Kajal Ashok Suryawanshi have satisfactorily completed the project work entitled "Antibacterial Activity of Stem and Root Extracts of *Tinospora cordifolia*." under the guidance of Ms. Nikita V. Potabatti, Assistant Professor, P.G. Department of Genetics, for the partial fulfillment of the degree of "Master of Science" in Genetics for P. A. H. Solapur University, Solapur during the academinc year 2021-2022*

Project Supervisor

*Nikita*  
04/07/2022  
(Ms. Nikita Potabatti)

Head of the Department

*Dr. A. S. Injal*  
( Dr. A. S. Injal)

Examiner-1

*G. G. G. G. G.*  
4/7/22

Examiner-2

*Dr. A. S. Injal*  
04/07/2022





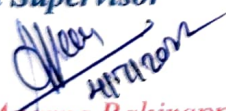
Walchand Hirachand Marg, Ashok Chowk, Solapur – 413006  
Ph.(c) 0217-2651863, 2392198, e-mail principalwcas@yahoo.co.in  
(Affiliated to solapur University, solapur)  
(Accredited "A" by NAAC)

Exam Seat No. : 2014896

## Certificate

This is to certify that **Ms Anita Suresh Aralimar** has satisfactorily completed the project work entitled **"Morphological, Molecular Characterization of Cercospora punicae From Pomegranate"** under the guidance of Mrs. Aparna Bahirappa, Assistant Professor, Department of Genetics, Walchand Center for Biotechnology, Solapur for the partial fulfillment of the degree of **"Master of Science in Genetics"** for Punyashlok Ahilyadevi Holkar solapur University, Solapur during the academinc year 2021-2022.

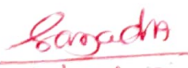
Project Supervisor

  
(Mrs. Aparna Bahirappa)


Incharge of the Department

  
(Dr. Archana Injal)

Examiner-1

  
41/7/22

Examiner-2

  
04/07/22



Shri A.P.D. Jain Pathashala's  
(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

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(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No. : 1611094

## Certificate

This is to certify that **Ms. Pratiksha H. Kashid** has satisfactorily completed the project work entitled "Evaluation of pomegranate peel as a substrate for citric acid production by *aspergillus niger*" under the guidance of **Dr. Archana S. Injal**, Assistant Professor, Department of Genetics, Walchand Center for Biotechnology, Solapur for the partial fulfillment of the degree of "Master of Science in Genetics" for Punyashlok Ahilyadevi Holkar solapur University, Solapur during the academic year 2021-2022.

Project Supervisor

Dr. Archana S. Injal

Incharge of the Department

Dr. Archana S. Injal

Examiner-1

  
4/7/2022

Examiner-2

  
04/07/2022



Shri A.P.D. Jain Pathashala's  
(Jain Minority Institute)

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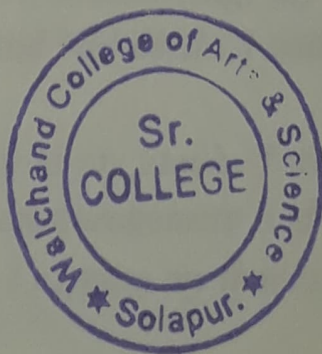
Exam Seat No. :

## Certificate

*This is to certify that Mr. Abhishek Suresh Mane has satisfactorily completed the project work entitled "In silico functional and structural analysis of crucial mutations in spike protein of SARS-COV-2 and its variants" under the guidance of Dr. Anil Kumar S. Katti, Assistant Professor, P.G. Department of Bioinformatics, for the partial fulfillment of the degree of "Master of Science" in Bioinformatics for P. A. H. Solapur University, Solapur during the academinc year 2021-2022*

Project Supervisor

(Dr. Anil Kumar S. Katti)



Head of the Department

(Dr. Vinod P. Sinoorkar)

Examiner-1

  
04/07/2022

Examiner-2

  
04/07/2022





Shri A.P.D. Jain Pathashala's  
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Exam Seat No. :

## Certificate

This is to certify that *Miss. Anuja Haribhau Raut* has satisfactorily completed the project work entitled **"In-silico Structural Analysis And Molecular Docking Of Potential Drug Targets In Asthma"** under the guidance of *Mr. Yogesh N. Joshi* Assistant Professor, P.G. Department of Bioinformatics, for the partial fulfillment of the degree of **"Master of Science" in Bioinformatics** for P. A. H. Solapur University, Solapur during the academic year 2021-2022

**Project Supervisor**

*Mr. Yogesh N. Joshi*



**Head of the Department**

*(Dr. Vinod P Sinoorkar)*

**Examiner-1**

  
04/07/2022

**Examiner-2**

  
04/07/2022



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Exam Seat No. :

## *Certificate*

This is to certify that **Ms. Bhakti A. Kulkarni** have satisfactorily completed the project work entitled **"In Silico Structural Analysis Of Potential Drug Target In Hepatitis b"** under the guidance of **Mr. Yogesh N. Joshi**, Assistant Professor, PG. Department of Bioinformatics, for the partial fulfillment of the degree of **"Master of Science" in Bioinformatics** for P. A. H. Solapur University, Solapur during the academic year 2021-2022.

*Project Supervisor*

**(Mr. Yogesh N. Joshi)**

*Head of the Department*

**(Dr. Vinod P Sinoorkar)**

*Examiner-1*

*Examiner-2*



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(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

**Department of PG Studies in Bioinformatics,  
Walchand Centre for Biotechnology**

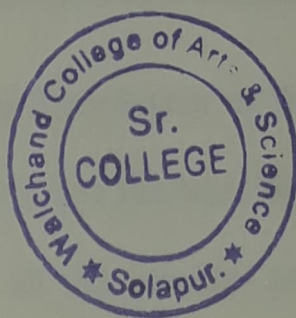
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**(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)**

Exam Seat No. :

## Certificate

This is to certify that **Mr. Shriksant S. Kore** have satisfactorily completed the project work entitled **"Virtual screening of curcumin for identification of drug targets in infectious diseases"** under the guidance of **Mr. Someshwar M. Moholkar**, Assistant Professor, P.G. Department of Bioinformatics, for the partial fulfillment of the degree of **"Master of Science" in Bioinformatics** for P. A. H. Solapur University, Solapur during the academic year 2021-2022

**Project Supervisor**



**Head of the Department**

**(Mr. Someshwar M. Moholkar)**

**(Dr. Vinod P Sinoorkar)**

**Examiner-1**

  
04/07/2022

**Examiner-2**

  
04/07/2022





Shri A.P.D. Jain Pathashala's  
(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

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Exam Seat No. :

## **Certificate**

This is to certify that **Ms. Mahalaxmi Rupanand Indapure** have satisfactorily completed the project work entitled **"Identification of Potential Drug Target and Molecular Docking with Natural Compounds in Malaria"** under the guidance of **Mr. Yogesh Joshi**, Assistant Professor, P.G. Department of Bioinformatics, for the partial fulfillment of the degree of **"Master of Science" in Bioinformatics** for P. A. H. Solapur University, Solapur during the academinc year 2021-2022.

**Project Supervisor**

**(Mr. Yogesh Joshi)**



**Head of the Department**

**(Dr. Vinod P. Sinoorkar)**

  
01/01/2022

**Examiner-1**

  
04/10/2022

**Examiner-2**



Shri A.P.D. Jain Pathashala's

(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

Department of PG Studies in Bioinformatics,

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Exam Seat No. :

## Certificate

This is to certify that **Mr. Vijaykumar Ambadas Boga** have satisfactorily completed the project work entitled **"In Silico Analysis of Mannose-binding protein C involved in COVID-19 (SARS-CoV-2)"** under the guidance of **Mr. Someshwar M. Moholkar**, Assistant Professor, P.G. Department of Bioinformatics, for the partial fulfillment of the degree of **"Master of Science" in Bioinformatics** for P. A. H. Solapur University, Solapur during the academinc year 2021-2022

Project Supervisor



Head of the Department

(Mr. Someshwar M. Moholkar)

(Dr. Vinod P Sinoorkar)

Examiner-1

  
04/07/2022

Examiner-2

  
04/07/2022





Shri A.P.D. Jain Pathashala's

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(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No. :

## Certificate

This is to certify that **Mr. Pratik Prakash Gawade** have satisfactorily completed the project work entitled "**In-silico analysis of potent phytochemicals against Breast Cancer targets**" under the guidance of **Dr. Vinod P Sinoorkar**, Assistant Professor, P.G. Department of Bioinformatics, for the partial fulfillment of the degree of "**Master of Science**" in **Bioinformatics** for P. A. H. Solapur University, Solapur during the academic year 2021-2022

Project Supervisor

(Dr. Vinod P Sinoorkar)



Head of the Department

(Dr. Vinod P Sinoorkar)

Examiner-1

  
04/07/2022

Examiner-2

*Alinity*  
04/07/2022





Shri A.P.D. Jain Pathashala's  
(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

Department of PG Studies in Bioinformatics,  
Walchand Centre for Biotechnology

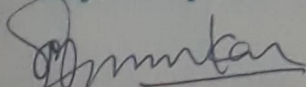
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Exam Seat No. :

## CERTIFICATE

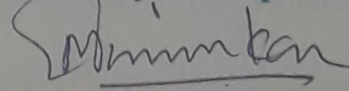
This is to certify that **Ms. Priyanka A. Ingale** has satisfactorily completed the project work entitled "**In-silico characterization of proteins targets from *Mycobacterium tuberculosis***" under the guidance of **Dr. Vinod P. Sinoorkar** Asst. Professor, PG. Dept. of Bioinformatics, Walchand Centre for Biotechnology, Solapur, for the partial fulfillment of the degree of "**Master of Science**" in "**Bioinformatics**" for **Punyashlok Ahilyadevi Holkar University, Solapur** during the academic year **2021-2022**.

Project Supervisor

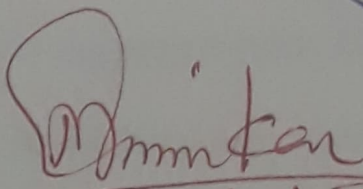
  
(Dr. Vinod P. Sinoorkar)



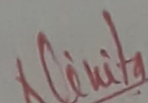
Head of the Department

  
(Dr. V. P. Sinoorkar)

Examiner 1

  
04/07/2022

Examiner 2

  
04/07/2022



Shri A.P.D. Jain Pathashala's  
(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

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(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No. :

## Certificate

This is to certify that **Ms. Priyanka B. Kalshetti** have satisfactorily completed the project work entitled **"In-silico comparative analysis of target proteins from SARS cov1 and SARS cov2"** under the guidance of **Dr. Vinod P. Sinoorkar**, Assistant Professor, PG. Department of Bioinformatics, for the partial fulfillment of the degree of **"Master of Science" in Bioinformatics** for P. A. H. Solapur University, Solapur during the academinc year 2021-2022.

Project Supervisor

(Dr. Vinod P Sinoorkar)



Head of the Department

(Dr. Vinod P Sinoorkar)

Examiner-1

  
04/01/2022

Examiner-2

  
04/01/2022





Shri A.P.D. Jain Pathashala's  
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Department of PG Studies in Bioinformatics,

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(Affiliated to P. A. H. Solapur University, Solapur)

(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No. :

## Certificate

This is to certify that Komal K.Bansode has satisfactorily completed the project work entitled "In co structural and functional analysis of crucial mutations spike protein of sars- cov-2 and its variant micron]" under the guidance of, **Dr. A. S. Katti** Assistant Professor, P.G. Department of Bioinformatics, the partial fulfillment of the degree of "**Master of Science**" in **Bioinformatics** for P. H. Solapur University, Solapur during the academinc year 2021-2022

Project Supervisor

(Dr. Anil Kumar S. Katti)



Head of the Department

(Dr. Vinod P Sinoorkar)

Examiner-1

  
04/01/2022

Examiner-2

  
04/01/2022





Shri A.P.D. Jain Pathashala's  
(Jain Minority Institute)

Walchand College of Arts and Science (Autonomous), Solapur

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(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No. :

## Certificate

This is to certify that Miss. Laxmi P. Bomma have satisfactorily completed the project work entitled "*Insilico analysis and molecular docking of TRIM47 involved in Astrocytoma*" under the guidance of Mr. Someshwar M. Moholkar, Assistant Professor, P.G. Department of Bioinformatics, for the partial fulfillment of the degree of "*Master of Science*" in Bioinformatics for P. A. H. Solapur University, Solapur during the academic year 2021-2022

Project Supervisor



Head of the Department

(Mr. Someshwar S. Moholkar)

(Dr. Vinod P Sinoorkar)

Examiner-1

04/10/2022  
Examiner-2



Shri A.P.D. Jain Pathashala's  
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Exam Seat No. :

## *Certificate*

This is to certify that **Mr Vaibhav S. Gaikwad** has satisfactorily completed the project work entitled "**Biodegradation of dairy waste water by isolated microorganism from soil sample**" under the guidance of **Mr. Chetan Godale sir**, Assistant Professor, P.G. Department of Biotechnology, for the partial fulfillment of the degree of "**Master of Science in Biotechnology**" for P.A.H. Solapur University, Solapur during the academic year 2021-2022.

Project Supervisor

(Mr. Chetan Godale)

Examiner-1

Head of the Department

(Dr. Anil Kumar S. Katti)

Examiner-2



Shri A.P.D. Jain Pathashala's  
(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

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**(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)**

Exam Seat No. :

## *Certificate*

This is to certify that *Mr. Siddharam N. Swami* has satisfactorily completed the project work entitled "*In-silico analysis and homology modeling of snake venom proteins*" under the guidance of *Dr. Vinod P. Sinoorkar*, Assistant Professor, P.G. Department of Bioinformatics, for the partial fulfillment of the degree of "*Master of Science*" in *Biotechnology* for P.A.H. Solapur University, Solapur during the academic year 2021-2022

*Project Supervisor*

(*Dr. Vinod P. Sinoorkar*)

*Head of the Department*

(*Dr. Anil Kumar S. Katti*)

*Examiner-1*

  
4/7/22

*Examiner-2*

  
4-7-22





Shri A.P.D. Jain Pathashala's  
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**(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)**

Exam Seat No. :

### ***Certificate***

This is to certify that Ms. Muskan Yasin Nigewan has satisfactorily completed the project work entitled "**Phenotypic based evaluation of landraces and identification of traits specific genotypes for various rabi adaptive traits in sorghum (*Sorghum bicolor* L. Moench)**" under the guidance of Dr. Anil Kumar S. Katti , Assistant Professor, P.G. Department of Biotechnology for the partial fulfillment of the degree of "**Master of Science**" in Biotechnology for P. A. H. Solapur University, Solapur during the academinc year 2021-2022

Project Supervisor

(Dr. Anil Kumar S. Katti)

Head of the Department

(Dr. Anil Kumar S. Katti)

Examiner-1

  
4/7/22

Examiner-2



Shri A.P.D. Jain Pathashala's  
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**Walechand College of Arts and Science (Autonomous), Solapur**

**Department of PG Studies in Biotechnology,  
Walechand Centre for Biotechnology,**

Walechand Linchband Marg, Ashok Chork, Solapur - 413006  
Ph:(0) 0217-2651863, 2392198, E-mail: principlatwsc@yahoo.co.in  
(Affiliated to P. A. H. Solapur University, Solapur)  
**(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)**

Exam Seat No. :

## *Certificate*

This is to certify that Ms. Priyanka Sanjay Mhetre has satisfactorily completed the project work entitled "Assessment of variability in segregating populations (F<sub>2</sub>s) derived from bi-parent & multi-parent crosses of rabi Sorghum (Sorghum bicolor L. Moench)" under the guidance of Dr. Archana Injal, Assistant Professor, P.G. Department of Genetics for the partial fulfillment of the degree of "Master of Science" in Biotechnology for P. A. H. Solapur University, Solapur during the academic year 2021-2022


Project Supervisor

  
(Dr Archana Injal)

Head of the Department

  
(Dr. Anil Kumar S. Kaati)

Examiner-1

  
11/7/22

Examiner-2

  
11/7/22



Shri A.P.D. Jain Pathashala's  
(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

Department of PG Studies in Biotechnology,  
Walchand Centre for Biotechnology


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(Affiliated to P. A. H. Solapur University, Solapur)  
(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No. :


## *Certificate*

This is to certify that Ms. Sharayu Subhash Kuntelu has satisfactorily completed the project work entitled **"Isolation and Characterization of Pigment Producing Bacteria from Soil Sample and its Antimicrobial Activity"** under the guidance of Dr. Namdev B. Patkar, Assistant Professor, P.G. Department of Biotechnology, for the partial fulfillment of the degree of "Master of Science" in **Biotechnology** for P. A. H. Solapur University, Solapur during the academic year 2021-2022


Project Supervisor

  
(Dr. Namdev B. Patkar.)

Head of the Department

  
(Dr. Anil Kumar S. Kanti)

Examiner-1

  
4/7/22

Examiner-2

  
14-7-22



Shri A.P.D. Jain Pathashala's  
(Jain Minority Institute)



## Walchand College of Arts and Science (Autonomous), Solapur

Department of PG studies in Biotechnology,  
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Ph.(c) 0217-2651863, 2392198, e-mail: principalwca@yahoo.co.in

(Affiliated to Solapur University, Solapur)

(Accredited "A" by NAAC)

Exam Seat No. :-1716220

## Certificate

This is to certify that **Ms. Dishad .A. Mulla** has satisfactorily completed the project work entitled "**Multiple Applications of Dragon fruit peel**" under the guidance of Dr. Vaishali Gargade Assistant Professor, Department of Biotechnology, Walchand Center for Biotechnology, Walchand College of Arts and Science (Autonomous), Solapur for the partial fulfillment of the degree of "**Masters of Science in Biotechnology**" for PAH Solapur University, Solapur during the academic year 2021-2022

Project Supervisor

*Dishad A*

(Dr. Vaishali Gargade)

Head of the Department

*V. Gargade*

(Dr. A. S. Kanti)

Examiner-1

*V. Gargade*  
4/17/22

Examiner-2

*V. Gargade*  
4/17/22



Shri A.P.D. Jain Pathashala's  
(Jain Minority Institute)

Walsband College of Arts and Science (Autonomous), Solapur

Department of PG Studies in Biotechnology,

Walsband Centre for Biotechnology

Walsband Harsband Marg, Ashok Chowk, Solapur - 413006

Ph: (0) 0217 2651863, 2592198, E-mail: princpalwca@yahoo.co.in

(Affiliated to P. A. H. Solapur University, Solapur)

(NAAC-Recognised "A" Grade, CPE Status Awarded by UGC)

Exam Seat No.:

## Certificate

This is to certify that Mr. Pravin Shivshankar Kanaki have satisfactorily completed the project work entitled "*Phytochemical analysis and antimicrobial activity of Justicia adhatoda*" under the guidance of Ms. Nikita V. Potabati, Assistant Professor, P. G. Department of Biotechnology, for the partial fulfillment of the degree of "*Master of Science*" in *Biotechnology* for P. A. H. Solapur University, Solapur during the academic year 2021-2022

Project Supervisor

*Nikita V. Potabati*  
04/10/2022

(Ms. Nikita V. potabati)

Head of the Department

*Dr. Anil Kumar S. Kati*

(Dr. Anil Kumar S. Kati)

Examiner-1

*Dr. Anil Kumar S. Kati*  
04/10/2022

Examiner-2

*Dr. Anil Kumar S. Kati*  
04/10/2022

Department of PG Studies in Biotechnology,

Wardhamand Centre for Biotechnology

Wardhamand Park and Marg, Ashok Chowk, Solapur - 413006

Ph:(0) 2612264300, 26122198, E-mail: principalwcas@yahoo.co.in

(Affiliated to P. A. H. Solapur University, Solapur)

(NAAC Recognized - A\* Grade, CPE Status Awarded by UGC)

Exam Seat No. :

## Certificate

This is to certify that *Ms. Pooja Mallesham Parkipandala* have satisfactorily completed the project work entitled "*Identification of novel drug target and docking against Lamin B-1 protein*" under the guidance of of *Mr. Someshwar M. Moholkar* Assistant Professor, P.G. Department of Bioinformatics, for the partial fulfillment of the degree of "*Master of Science*" in *Biotechnology* for *P. A. H. Solapur University, Solapur* during the academinc year 2021-2022

Project Supervisor

(*Mr. Someshwar M. Moholkar*)

Head of the Department

(*Dr. Anil Kumar S. Katti*)

Examiner-1

Examiner-2





Shri A.P.D. Jain Pathashala's  
(Jain Minority Institute)  
**Walchand College of Arts and Science (Autonomous), Solapur**

Department of PG Studies in Biotechnology,

Walchand Centre for Biotechnology

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(Affiliated to P. A. H. Solapur University, Solapur)

(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No. :

## Certificate

This is to certify that *Mr. Vinod Krushnahari Vadnal* have satisfactorily completed the project work entitled "*Isolation and Purification of Milk Clotting Enzyme from Isolated Soil Bacteria*" under the guidance of *Ms. Nikita V Potabatti*, Assistant Professor, P.G. Department of Biotechnology, for the partial fulfillment of the degree of "*Master of Science*" in *Biotechnology* for *P. A. H. Solapur University, Solapur* during the academic year 2021-2022

Project Supervisor

*Nikita V Potabatti*  
04/04/2022

(*Ms. Nikita V Potabatti*)

Head of the Department

*(Signature)*

(*Dr. A. S. Katti*)

Examiner-1

*(Signature)*  
04/04/2022

Examiner-2

*(Signature)*  
04/04/2022

**Walchand College of Arts and Science (Autonomous), Solapur**

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(Affiliated to solapur University, solapur)

(Accredited "A" by NAAC)

Exam Seat No. :-1716235

## Certificate

This is to certify that **Ms. Tejashri .G. Solankar** has satisfactorily completed the project work entitled "**Production of Biosurfactant from Used Cooking Oil** " under the guidance of **Ms.Prajakta Kulkarni** Assistant Professor, Department of Biotechnology, Walchand Center for Biotechnology, Walchand College of Arts and Science (Autonomous), Solapur for the partial fulfillment of the degree of "**Masters of Science in Biotechnology**" for PAH Solapur University, Solapur during the academic year 2021-2022

Project Supervisor



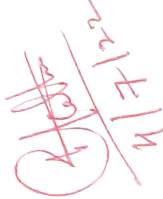
(**Ms. Prajakta Kulkarni**)

Head of the Department

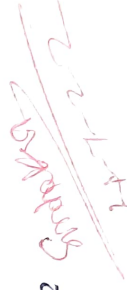


(**Dr. A.S.Katti**)

Examiner-1



Examiner-2





Shri A.P.D. Jain Pathashala's  
(Jain Minority Institute)  
**Walchand College of Arts and Science (Autonomous), Solapur**

Department of PG Studies in Biotechnology,  
Walchand Centre for Biotechnology  
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(Affiliated to P. A. H. Solapur University, Solapur)  
(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No. :

## Certificate

This is to certify that Ms. Usharani Iresh Gadgil has satisfactorily completed the project work entitled "Isolation and Characterization of Potent Biosurfactant Producing Bacteria From Petroleum Contaminated Soil" under the guidance of Miss Shraddha S. Jadhav, Assistant Professor, P.G. Department of Biotechnology, for the partial fulfillment of the degree of "Master of Science" in **Biotechnology** for P. A. H. Solapur University, Solapur during the academic year 2021-2022

Project Supervisor



(Miss Shraddha S. Jadhav)

Head of the Department



(Dr. Anil Kumar S. Kanti)

Examiner-1



Examiner-2



Walchand Centre for Biotechnology





Smt. A. F. D. Jain Pathashala's  
(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

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Ph:(c) 0217-2651863, 2392198, E-mail: principalwacas@yahoo.co.in  
(Affiliated to P. A. H. Solapur University, Solapur)  
**(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)**

**Exam Seal No. :**

## *Certificate*

This is to certify that **Mr. Hrushikesh Mahendrakumar Nicheane** have satisfactorily completed the project work entitled "**Isolation, characterization, production and media pH optimization of pigment producing bacteria from soil sample**" under the guidance of **Miss. Aparna Bhairappa**, Assistant Professor, P.G. Department of Biotechnology, for the partial fulfillment of the degree of "**Master of Science**" in **Biotechnology** for **P. A. H. Solapur University, Solapur** during the academic year 2021-2022

**Project Supervisor**

**(Miss. Aparna Bhairappa)**

**Head of the Department**

**(Dr. A. S. Kumbh)**

**Examiner-1**

**Examiner-2**



Shri A.P.D. Jain Pathashala's

(Jain Minority Institute)

**Walchand College of Arts and Science (Autonomous), Solapur**

Department of PG Studies in Biotechnology,

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(NAAC Re-accredited "A" Grade, CPE Status Awarded by UGC)

Exam Seat No. :

## Certificate

This is to certify that Ms. Adarsh Suryakant Gaikwad has satisfactorily completed the project work entitled "*In vitro Mutagenesis In Nodal Segment Of Pomegranate cv. Super Bhagawa By Using Sodium Azide*" under the guidance of Dr. Vaishali. A. Gargade, Assistant Professor, P.G. Department of Biotechnology, for the partial fulfillment of the degree of "*Master of Science in Biotechnology*" for P. A. H. Solapur University, Solapur during the academic year 2021-2022

Project Supervisor

(Dr. Vaishali A. Gargade)

Head of the Department

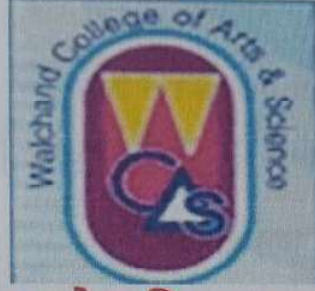
(Dr. Anil Kumar S. Katti)

Examiner-1

4/7/22

Examiner-2

# वालचंद कला व शास्त्र महाविद्यालय, सोलापूर



भूगोल विभाग

CANCELLED

एम. ए. भाग - II

शोध प्रबंध

2021 - 22

विषय

सोलापूर शहरातील घरगुती पाणी पुरवठा व वापर यांचा  
भौगोलिक अभ्यास

संशोधक.

आयेशा फरदीन मुल्ला

परीक्षा आसन क्र : 102368

मार्गदर्शक

प्रा.डॉ. धायगोडे एन. आय.

(भूगोल विभागप्रमुख)

मार्गदर्शक

प्रा.स्वामी. बी.एम.

(भूगोल विभाग)



श्री. ऐ.प. दि. जैन पाठशाळा संचलित,  
वालचंद कला व शास्त्र महाविद्यालय, सोलापूर

भूगोल - विभाग

प्रमाणपत्र

प्रमाणित करण्यात येते की, श्री. / कु. अयिशा फरदीन मुल्ला  
यांनी प्रस्तुत प्रकल्प अहवाल / शोध प्रबंध अत्यंत परिश्रमपूर्वक तयार केला आहे.  
त्यात संशोधना विषयाचे महत्त्व, संशोधन पद्धती विषयाचे सुक्ष्म विश्लेषण आणि  
निष्कर्ष काढले आहे. माझ्या दृष्टीने सोलापूर विद्यापीठाच्या भूगोल एम.ए. भाग - II  
(सत्र - IV) या पदवी परिक्षेसाठी हा प्रकल्प अहवाल / शोध निबंध सादर करण्याच्या  
योग्यतेचा झाला आहे. असे मी प्रमाणित करतो / करते.

पर्यवेक्षक

1. परीक्षक

दिनांक :

2. परीक्षक

दिनांक :

भूगोल विभागप्रमुख

परीक्षा आसन क्रमांक :- 702368

रोल नंबर :

Examined