

Shri A.P.D. Jain Pathashala's

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

Walchand Hirachand Marg,  
Ashok Chowk  
Solapur – 413006  
Maharashtra

**Swayam, NPTEL**

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22CY02S34270053

To  
RUSHALI UMESH GAIKWAD  
216/218 RAJIV NAGAR, AKKALKOT ROAD  
MAHARASHTRA - 413006  
PH. NO :8668628065



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:1

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**RUSHALI UMESH GAIKWAD**

for successfully completing the course

**Basics in Inorganic Chemistry**

with a consolidated score of **55** %

Online Assignments	21.67/25	Proctored Exam	33/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **496**

Jan-Feb 2022  
(4 week course)

**Prof. Sridhar Iyer**  
Head CDEEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay



This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22BT10S44270170

To  
TEJAL BAPPAJI PAWAR  
3RD FLOOR, MATOSHREE APTMT, RAILWAY LINES  
3RD FLOOR, MATOSHREE APTMT, RAILWAY LINES  
SOLAPUR  
MAHARASHTRA - 413001  
PH. NO :7721862516



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**TEJAL BAPPAJI PAWAR**

for successfully completing the course

**Bioengineering: An Interface with Biology and Medicine**

with a consolidated score of **68** %

Online Assignments	20.63/25	Proctored Exam	47.25/75
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Total number of candidates certified in this course: **285**

Jan-Mar 2022  
(8 week course)

**Prof. Sridhar Iyer**  
Head CDEEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay





This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22BT10S34270004

To  
GAUTAMI LAXMIKANT UDGIRI  
102/12,E,BHAVANI PETH,SOLAPUR  
MAHARASHTRA - 413002  
PH. NO :9921863358



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**GAUTAMI LAXMIKANT UDGIRI**

for successfully completing the course

**Bioengineering: An Interface with Biology and Medicine**

with a consolidated score of **50** %

Online Assignments	18.96/25	Proctored Exam	30.75/75
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Total number of candidates certified in this course: **285**

Jan-Mar 2022  
(8 week course)

**Prof. Sridhar Iyer**  
Head CDEEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**SHARADA RAHUL KATHARE**

for successfully completing the course

**Cell Biology: Cellular Organization, Division and Processes**

with a consolidated score of **50** %

Online Assignments	15.42/25	Proctored Exam	34.5/75
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Total number of candidates certified in this course: **1155**

**Prof. G. L. Sivakumar Babu**  
Chairman, Center for Continuing Education  
IISc Bangalore

**Jan-Mar 2022**  
**(8 week course)**

**Prof. L. Umanand**  
NPTEL Coordinator  
IISc Bangalore



Indian Institute of Science Bangalore



This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22BT10S44270148

To  
SUMATI VITHALRAO KULKARNI  
D2+3/3, BHAVANI NILAY, JAI JALARAM NAGAR  
VIJAPUR ROAD, JULE SOLAPUR  
SOLAPUR  
MAHARASHTRA - 413004  
PH. NO :8010115325



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**SUMATI VITHALRAO KULKARNI**

for successfully completing the course

**Bioengineering: An Interface with Biology and Medicine**

with a consolidated score of **52** %

Online Assignments	16.04/25	Proctored Exam	36/75
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Total number of candidates certified in this course: **285**

Jan-Mar 2022  
(8 week course)

**Prof. Sridhar Iyer**  
Head CDEEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay





This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22BT18S44270192

To  
SNEHAL SHRINIVAS GUJAR  
18, SADGURU VIHAR, NEAR YASHRAJ NAGARI.  
AKKALKOT ROAD  
SOLAPUR  
MAHARASHTRA - 413006  
PH. NO :919529321532



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**SNEHAL SHRINIVAS GUJAR**

for successfully completing the course

**Cell Biology: Cellular Organization, Division and Processes**

with a consolidated score of **51** %

Online Assignments	15/25	Proctored Exam	36/75
--------------------	-------	----------------	-------

Total number of candidates certified in this course: **1155**

**Prof. G. L. Sivakumar Babu**  
Chairman, Center for Continuing Education  
IISc Bangalore

Jan-Mar 2022  
(8 week course)

**Prof. L. Umanand**  
NPTEL Coordinator  
IISc Bangalore



Indian Institute of Science Bangalore



This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22BT10S44270103

To  
RASHI CHANDRAKANT TRIMBAKE  
22  
MITHILA NAGAR, LAXMI PETH  
SOLAPUR  
MAHARASHTRA - 413001  
PH. NO :9764202545



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**RASHI CHANDRAKANT TRIMBAKE**

for successfully completing the course

## Bioengineering: An Interface with Biology and Medicine

with a consolidated score of **60** %

Online Assignments	20.42/25	Proctored Exam	39.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **285**

Jan-Mar 2022  
(8 week course)

**Prof. Sridhar Iyer**  
Head CDEEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay





## **Report- One-day workshop on Vermitechnology**

One-day workshop on “**Vermitechnology**” was organized by department of Zoology, Walchand college of Arts and Science, Solapur on 9<sup>th</sup> March 2022. Faculty and students from Wasundhara colleges, Solapur participated in this workshop. B.Sc. III zoology students have COC course on Vermitechnology. Based on this syllabus, the workshop was organized. The purpose of this workshop was teach, discuss, demonstrate and to give hands on training about vermicomposting method.

Programme inaugurated by Dr. S.V. Koti, principal, WCAS, Solapur, Dr. R.V. Hippargi, vice-principal and Head, dept. of Zoology WCAS, Solapur, Dr. K.R. Rao, Dr. Mali, Dr. S. P. Navale and Dr. M.O. Mulajkar.

After inauguration, Dr. R. V. Hippargi, vice-principal and HOD, dept. of Zoology welcomed the students and staffs, Mrs Sutrave and Miss Mali, dept. of Zoology, Wasundhara college, Solapur and guided the them about importance of earthworms and vermicomposting technology. Principal, Dr. S.V. Koti appreciated the staff dept. of Zoology for arranging this workshop and gave best wishes. Dr. Mali Geology department WCAS, Solapur gave valuable information about the history and reason behind the establishment of vermicomposting unit and WCAS, Solapur and also added the importance of Vermitechnology in solid waste management of college campus waste.

Dr. V. R. Bijja and Dr. S. K. Madikhambe and acted as resource person of this workshop. They explained, discussed all the practicals and theory topics of COC Vermitechnology syllabus. Hands on training also given to the participants for handling of earthworms, rearing, preparation of vermibeds, maintenance of vermicomposting of vermicomposting units and analysis of vermicompost. The manual on Vermitechnology also provided to students as well as staff of Wasundhara college, Solapur.

During valedictory function, certificates were given to the participants by Dr. S.V. Koti, Dr. R.H. Hippargi and Dr. K.R. Rao. Staff and students of Wasundhara college gave very excellent feedback about this workshop and also thanked the zoology dept. WCAS, Solapur for arranging such workshop cum training programme on Vermitechnology. This activity is part of MOU did with Vasundhara College, Solapur

Head of Department









## MEMORANDUM OF UNDERSTANDING

**Between** : Walchand College of Arts and Science, Solapur  
**And** : Shri Siddheshwar Sahakari Sakhar Karkhana Ltd. Kumthe, Dist. Solapur  
**Date** : 12-08-2016  
**Re.** : **MOU in the fields of Industrial Exchange, Education & Training**

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Walchand College of Arts and Science, Solapur and Shri Siddheshwar Sahakari Sakhar Karkhana Ltd. Kumthe, Dist. Solapur declare that, in order to enhance their mutual cooperation in the areas of "**Industrial Exchange, Education & Training**", Walchand College of Arts and Science, Solapur and Shri Siddheshwar Sahakari Sakhar Karkhana Ltd., Kumthe, Dist. Solapur have decided to cooperate in the fields of mutual interest and thereby conclude this Memorandum of Understanding.

### Article 1.

The scope of exchange covered by this Memorandum includes the following categories –

- i. Education & Training of Manpower in the fields of mutual interest.
- ii. Organize camps, programmes and workshops of mutual interest
- iii. Conduct collaborative work in the areas of mutual interest such as Soil & Water Analysis, Vermicomposting, Microbial Analysis, Fermentation & Rectification etc.
- iv. Provide the manpower in the field of mutual interest. ( Placements)
- v. Collaboration for Agricultural Development.

### Article 2.

Both institutions will make concrete proposals for the implementation of these exchanges and work towards their realization in close contact with each other.

### Article 3.

This memorandum may be altered by mutual written consent of both the parties by the request of either Walchand College of Arts and Science, Solapur and Shri Siddheshwar Sahakari Sakhar Karkhana Ltd., Kumthe, Dist. Solapur. Any alterations shall become effective at the time that both the parties indicate their consent in writing.

: 2 :

**Article 4.**

The present memorandum shall be effective for a period of five years from the date it is signed by both parties. Its period of validity may be extended by mutual consent. The termination of this memorandum shall not affect the implementation of the projects or the programs established under it, prior to such termination.

**Article 5.**

Financial terms for specific projects, programmes collaborative work shall be decided on mutual agreement between Walchand College of Arts and Science, Solapur and Shri Siddheshwar Sahakari Sakhar Karkhana Ltd., Kumthe, Dist. Solapur



(Shriman Dharmaraj Kadadi)  
**Chairman**  
Shri Siddheshwar Sahakari  
Sakhar Karkhana Ltd., Kumthe  
Dist. Solapur



(Dr. A.H. Manikshete)  
**Principal**  
Walchand College of Arts & Science,  
Solapur

In the presence of

1. Santosh Kumbhar  
2. V.M. SARUR.

1. Gargade V.A.  
2. S.N. Battin



**MEMORANDUM OF UNDERSTANDING  
FOR COLLABORATION**

17<sup>th</sup> Feb. 16

**between**

**The WALCHAND COLLEGE OF ARTS & SCIENCE, SOLAPUR  
represented by its Principal, DR. A.H. MANIKSHETE**

**and**

**SEEMA BIOTECH PVT., LTD., KOLHAPUR  
represented by its Head,**

Both parties fully recognize their mutual legal capacity to draw up the present agreement.

**INTRODUCTION**

Both parties agree to encourage research activities, educational programmes and the mobility of both teaching staff and students between their institutions, and to establish procedures by which these activities can be run effectively to serve the mutual interest of both the institutions.

**SUBSEQUENTLY, BOTH PARTIES AGREE TO THE FOLLOWING**

**General provisions**

Article 1

**FIELDS OF COLLABORATION**

Collaboration between the two institutions is to be established within any field of mutual interest.

Special emphasis will be placed on Plant biotechnology, plant tissue culture and other allied sciences.

Article 2

**STUDENT MOBILITY**

- 2.1 A commitment will be made between WCS and SBPL to foster exchange of students according to the following terms:
- Both institutions are required to provide exchange of students with full logistical information (arrival, duration of stay, accommodation, insurance etc) on mutual consent.
  - Students will be enrolled at their home institution.



- All intellectual property solely conceived and/or developed by the WCS during the course of this agreement shall be owned by WCS and all intellectual property solely conceived and/or developed by the SBPL during the course of this agreement shall be owned by the SBPL while, intellectual property jointly conceived and/or developed by WCS and SBPL will be jointly owned by WCS and SBPL. Each party may use such property for research and scholarly purposes. WCS and SBPL agree to collaborate towards the protection, if appropriate, and application of such intellectual property for commercial or other purposes on mutually acceptable terms to be negotiated in good faith between the two parties.

Article 5

**ORGANIZATION OF SCIENTIFIC EVENTS**

- Both the institutions will work actively for the joint organization of scientific events Like seminars, workshops, training & awareness programs, conferences, invited lectures, etc for the benefit of students and staff of both the institutions with mutual consent.
- The scientific events shall be organized on a regular basis at both the campuses involving staff and the students from both the institutions.

Article 6

**PLACEMENT ACTIVITIES:**

- Both the institutions agree to work in full faith for the placement of successful candidates (both UG and PG) of WCS.
- Both the institutions put their efforts in arranging campus placements by companies at both the campuses.

Article 7

**NODAL AGENCY:**

- Following persons from both the institutions will be the nodal persons who will co-ordinate all the collaborative activities between two institutions.

**SBPL**

Name Mr. Vishwas Balasaheb  
Address Chavan Patil  
Seema Biotech, Kolhapur

**WCS**

Dr. K. Raghavender Rao  
Coordinator, Department of Biotechnology,  
Walchand College of Arts & Science,  
Solapur-413006  
Email: kothur\_raghavender@yahoo.co.in

Article 7

**DURATION/ MODIFICATION/TERMINATION**

- This agreement will be valid for five years from the date of its signing and will be reviewed every five years and will remain in force until one or both the parties formally recommend(s) that it may be modified or interrupted; nevertheless, the projects that are in hand at that moment will continue till the end of the concerned project.

Shri. Angarsiddha Shikshan Prasarak Mandal Angar's



# Baburao Patil College of Arts and Science,



**Angar. Tal-Mohol. Dist-Solapur. 413 214**

NAAC Accredited at 'B' Grade

(Affiliated to Punyashlok Ahilyadevi Holkar Solapur University, Solapur)

- Principal -

**Dr. Chandrakant S. Suryawanshi**  
M.Sc.Ph.D.(Botany)

- Chairman -

**Mr. Vikrant Rajan Patil**

Outward No. BPCAS/304/2022

Date: 6/12/2022

To,  
The Principal,  
Walchand College of Arts and Science,  
Solapur.

Subject: - Signing of Memorandum of Understanding

Dear Sir,

With reference to above mentioned subject, as per the telephonic conversation with Dr.S.H.Thite, Head, Dept. of Zoology, Baburao Patil College of Arts and Science, Angar, I am sending herewith duly Signed MoU of our College with your College. Kindly accept the same and send us a duly signed copy of MoU from your side for our reference.

Thanking you.

Yours truly,

(Dr. C.S.Suryawanshi)

**Principal**

**Baburao Patil College of Arts & Science**  
Angar, Tal. Mohol, Dist. Solapur.



# **Memorandum of Understanding**

Between

**Baburao Patil College of Arts and Science, Angar,  
Tal - Mohol, Dist. - Solapur**

And

**Walchand College of Arts and Science, Solapur,  
Tal - Dist. - Solapur**

**August-2021**





महाराष्ट्र MAHARASHTRA

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मोहोळ नं. व. २५०० दि. १०/०७/२०२१  
जी. बाबुराव पटिल कुटो व पित्रोण  
पान्डी व. बा. अंतरल स्टॅम्प मानिल्लें बरक  
पान्डी व. बा. स्टॅम्प व भारतीय मध्याविकाशप  
मोहोळ नं. व. २५०० दि. १०/०७/२०२१  
बा. स्टॅम्प व भारतीय मध्याविकाशप

श्री. सुरेश शिवाजी शिंदे  
मुद्रांक विक्रेता मोहोळ  
कोड नंबर. २५००  
श्री. सुरेश शिवाजी शिंदे  
मुद्रांक विक्रेता मोहोळ  
कोड नंबर. २५००

उपहोलागार कार्यालय, मोहोळ  
१०/०७/२०२१  
०५ JUL २०२१  
मोहोळ.

**Memorandum of Understanding**  
This MoU was signed and came in to existence on

**BETWEEN**  
**Baburao Patil College of Arts and Science Angar**  
**Tal- Mohol Dist Solapur**  
**And**  
**Walchand College of Arts and Science Solapur**

**Objectives of MoU**

1. To promote and enhance academic interest & establish quality LMS.
2. To provide advice for implementation of quality education.
3. To encourage bright students of both colleges for excellence in their subjects and for post graduation.
4. To conduct research projects under joint venture.
5. To imbibe scientific attitude among the students.



## Proposed model of Collaboration

1. Exchange of faculty and students for sharing knowledge.
2. Guidance to the students for research projects.
3. Organization of Seminars, Conferences, Workshops and Guest lectures under joint Venture.
4. Availability of laboratory instruments and departmental library to the faculty and students of both colleges.
5. Organization of other academic and extension activities.

## Duration of MoU

This MoU unless extended by mutual written consent of both institutes, **shall expire in FIVE YEARS** after the effective date specified in the opening paragraph. However, on review, the MoU shall be extended for **ANOTHER FIVE YEARS** by mutual consent.

## Terms and Conditions

1. This MoU may be amended, renewed and/or terminated by mutual written agreement of both the institutions at any time.
2. Either institution shall have the right to terminate the MoU upon 60 days 60 days of prior written notice to the other institute.

## Coordinators


Heads of both institutions will designate persons who have responsibility of coordination and implementation of this MoU.

On Behalf of

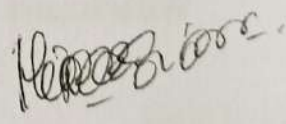
On Behalf of

**Baburao Patil College of Arts and Science,  
Angar**

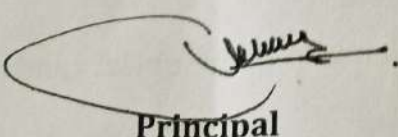
**Walchand College of Arts and Science  
Solapur**

  
Coordinator

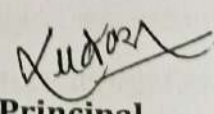
(Dr. Thite S.H.)

  
Coordinator

(Dr. Hippargi R. V.)

  
Principal

(Dr. Suryawanshi C.S.)

  
Principal

(Dr. Koti S.V.)  
Principal,

Walchand College of Arts & Science  
Seth Walchand Hirachand Marg,  
Ashok Chowk, Solapur - 413006

**Principal**  
Baburao Patil College of Arts & Science  
Angar, Tal. Mahol, Dist. Solapur.





### Registration Form

Name: \_\_\_\_\_

College: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Mobile: \_\_\_\_\_

E-mail: \_\_\_\_\_

Registration fees: Rs.100/- (Rs. One hundred only)

Registration Date: / / 2022

Signature of the receiver      Signature of the student

(Xerox of this form will accepted)

### About Workshop

Walchand Centre for Biotechnology and Department of Zoology of Walchand College of Arts and Science, Solapur is organizing a One Day Workshop on "B.Sc.Part II Zoology Practical's" for Baburao Patil College of Arts & Science, Angar. The workshop aims to acquaint staffs and students with practical skills in Molecular biology and Biochemistry which fulfills their curricular aspects. This workshop is an extension of facilities and expertise from Department of Biotechnology and Zoology.

**Date of Workshop:** 12<sup>th</sup> April 2022

**Time:** 10.00 AM to 5.00 PM

Sr. No	Technique	Time
<b>Morning Session</b>		
<b>Inaugural Programme at 9.45 am to 10.00 am</b>		
1	Demonstration of Protein separation by SDS PAGE	10 am to 11:30 am
2	Effect of pH, temperature and inhibitors on the action of salivary enzyme	11:30 am to 01 pm
<b>Lunch Break</b>		
<b>Afternoon Session</b>		
3	Action of Amylase or papain enzyme under optimum condition	2:00 pm to 4.00 pm
<b>Valedictory Function</b>		

#### Venue:

Smart Classroom, Department of Biotechnology, WCAS, Solapur

#### For more details Contact to:

- 1) Dr. A. S. Katti : 8657687482
- 2) Dr. N. B. Patkar : 9850830373
- 3) Dr. A. S. Injal : 9049277968
- 4) Dr. V. P. Sinoorkar : 9028523506



Shri Allak Pannalal Digambar Jain Pathashala's  
(Jain Minority Institute)

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

(Reaccredited 'A' by NAAC, UGC-CPE Status)

Department of Biotechnology  
in Collaboration with  
Department of Zoology  
Organizing

**One Day workshop on**

**"B.Sc.Part II Zoology Practical's"**

12<sup>th</sup> April 2022



**Dr. N. B. Patkar**  
Convener

**Dr. R. V. Hipparagi**  
Vice-Principal

**Dr. S.V. Koti**  
Principal



Samsung Quad Camera  
Dr. A. S. Katti





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Samsung Quad Camera  
Dr. A. S. Kati