



# Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

Affiliated to Sant Gadge Baba Amravati University, Amravati

## NAAC

### Criterion-VI

### Governance, Leadership and Management

<https://vinayakmahankh.in> 

+91 7221222245 

vvm197@sgbau.ac.in 

Nandgaon Khandeshwar, Amravati 

## **CRITERON-VI**

### **6.5 Internal Quality Assurance System**



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**6.5.2 List of collaborative quality initiatives with other institutions along with brochures and photos with caption and date**

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## VINAYAK VIDNYAN MAHAVIDYALAYA

Nandgaon Khandeshwar, Dist. Amravati

(An Institute run by Pravin Khodke Memorial Trust, Amravati)

Sau. Sulbha Sanjay Khodke  
(MLA, Amravati)  
President, P.K.M Trust, Amt.

College Code: 197, Ph. No. 07221-222245  
Email: [yvm197@sgbau.ac.in](mailto:yvm197@sgbau.ac.in)

Dr. Alka Anant Bhise  
(Principal)  
Mob.9823526341

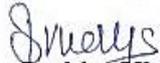
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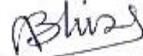
10/05/2023

### SELF DECLARATION

This is to certify that, the information, reports, true copies of the supporting documents, numerical data and web links furnished in this file are verified by I.Q.A.C. and head of the Institution and found correct.

Hence this certificate is issued.

  
**Dr. Suchita Khodke**  
I.Q.A.C. Co-ordinator  
Vinayak Vidnyan Mahavidyalaya  
Nandgaon Kh.

  
**Dr. Alka A. Bhise**  
PRINCIPAL  
Vinayak Vidnyan Mahavidyalaya,  
Nandgaon Khan, Dist. Amravati



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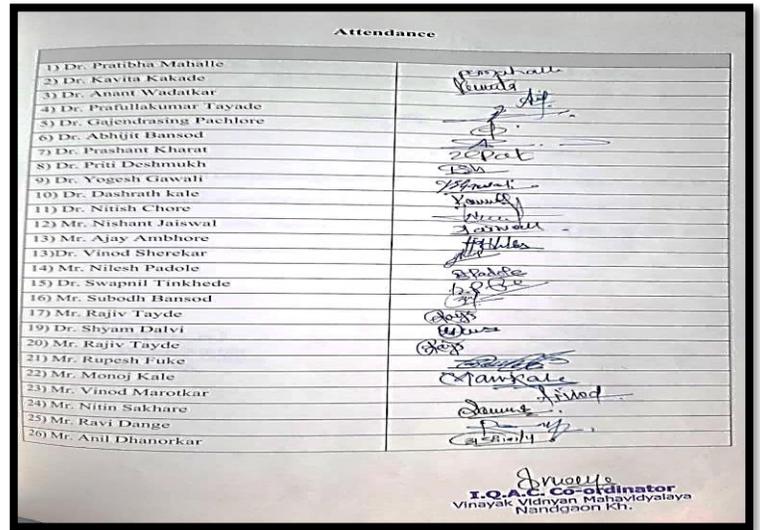
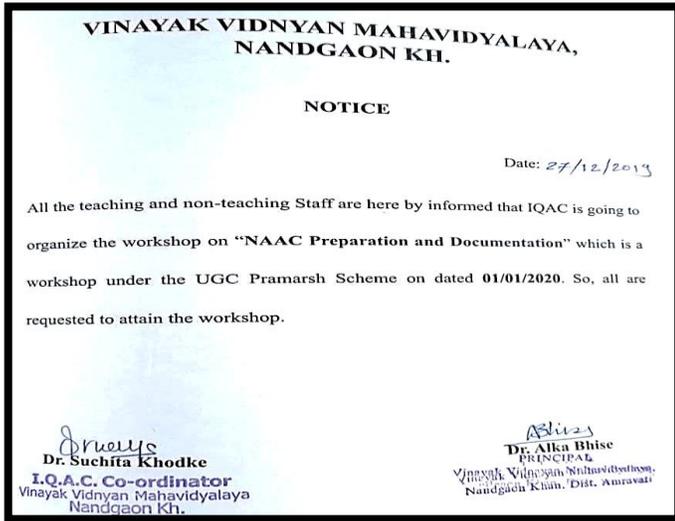
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# Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

## ➤ I. Activities under MoU's in the year 2019-20

**Collaborating Agency: Vidya Bharati Mahavidyalaya, Paramarsh Scheme.**

### 1) Name of the Activity: "One day Institutional Level Workshop on NAAC Preparation and Documentation"



A one-day workshop on "NAAC Preparation and Documentation" was organized on by IQAC, Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar on 1<sup>st</sup> January 2020. This workshop was taken under the Memorandum of Understanding for UGC Paramarsh Scheme between Vidya Bharati Mahavidyalaya, Amravati (Mentor) and Vinayak Vidnyan Mahavidyalaya (Mentee). Prof. Dr. R.M. Patil, IQAC Coordinator, Vidya Bharti Mahavidyalaya, Amravati was present as resource person for the workshop. Prof. Dr. R.M. Patil had given the detailed guidelines about the NAAC manual, NAAC accreditation process and guided about the preparation to be done by the college while facing the NAAC accreditation.



**Collaborating Agency: Prashna Chinha Ashram Shala, Mangarul Chavala.**

**2) Name of the Activity: "Guest Lectures for the students of Ashram Shala"**

To,  
The Principal,  
Vinayak Vidnyan Mahavidyalaya,  
Nandgaon Khandeshwar.

Subject: Seeking Permission to organize and conduct "Guest Lectures" for the students of "Prashna Chinha" Adivasi Ashram Shala at Mangarul Chavala.

Respected Madam,

With reference to above mentioned subject, Department of Physics in collaboration with Department of Zoology willing to organize and conduct Guest Lectures on the topics

- a) Basic and General Physics
- b) Amazing world of Biology

for the students of Prashna Chinha, Adivasi Ashram Shala" at Mangarul Chavala on 7<sup>th</sup> March 2020. This activity is proposed under the extension activity of the institute in collaboration with Prashna Chinha Adivasi Ashram Shala, Mangarul Chavala.

So, I kindly request to you, please allow us to organize and conduct this activity.

Date: 3<sup>rd</sup> March 2020

permission granted.

*Prashna*  
PRINCIPAL  
Vinayak Vidnyan Mahavidyalaya,  
Nandgaon Khan, Dist. Amravati

Your Faithfully  
Dr. Anant Wadatkar  
Head  
Department of Physics

**Principal Permission**

Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar

NOTICE

Date: 3<sup>rd</sup> March 2020

Following faculty members are hereby informed that, under the extension activity of our college with Prashna Chinha Adivasi Ashram Shala, Mangarul Chavala, Department of Physics in collaboration with Department of Zoology is going to organize Guest Lectures for the students of Prashna Chinha Adivasi Ashram Shala, Mangarul Chavala on 7<sup>th</sup> March 2020. Mentioned faculty members are directed to kindly assist for the conduction of this activity.

*Dr. Anant Wadatkar*  
Dr. Anant Wadatkar  
Coordinator

*Dr. Alka A. Bhise*  
Dr. Alka A. Bhise  
PRINCIPAL  
Vinayak Vidnyan Mahavidyalaya,  
Nandgaon Khan, Dist. Amravati

Sr. No.	Name of the Teacher	Signature
1.	Dr. Anant Wadatkar, Department of Physics	<i>Dr. Anant Wadatkar</i>
2.	Mr. Subodh Bansod, Department of Zoology	<i>Mr. Subodh Bansod</i>

**Staff Notice**

Department of Physics in collaboration with Department of Zoology had organized guest lecture for the students of Prashna Chinha Ashram Shala on 7<sup>th</sup> March 2020. Dr. Anant Wadatkar, Head department of Physics had delivered the lecture on the topic Basic and General Physics. Mr. Subodh Bansod, Assistant Professor, Department of Zoology had delivered the lecture on the topic amazing world of Biology.



# Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

**Collaborating Agency: Prashna Chinha Ashram Shala, Mangarul Chavala.**

## **3) Name of the Activity: “Organized Educational Activities for the students”**

To,  
The Principal,  
Vinayak Vidnyan Mahavidyalaya,  
Nandgaon Khandeshwar.

Subject: Seeking Permission to organize and conduct “Guest Lectures” for the students of “Prashna Chinha” Adivasi Ashram Shala at Mangarul Chavala.

Respected Madam,

With reference to above mentioned subject, Department of Physics in collaboration with Department of Zoology willing to organize and conduct Guest Lectures on the topics

- a) Basic and General Physics
- b) Amazing world of Biology

for the students of Prashna Chinha, Adivasi Ashram Shala” at Mangarul Chavala on 7<sup>th</sup> March 2020. This activity is proposed under the extension activity of the institute in collaboration with Prashna Chinha Adivasi Ashram Shala, Mangarul Chavala.

So, I kindly request to you, please allow us to organize and conduct this activity.

Date: 3<sup>rd</sup> March 2020

permission granted.

*Relwas*  
PRINCIPAL  
Vinayak Vidnyan Mahavidyalaya,  
Nandgaon Khan, Dist. Amravati

Your Faithfully  
Dr. Anant Wadatkhar  
Head  
Department of Physics

### Principal Permission

**Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar**

### NOTICE

Date: 3<sup>rd</sup> March 2020

Following faculty members are hereby informed that, under the extension activity of our college with Prashna Chinha Adivasi Ashram Shala, Mangarul Chavala, Department of Physics in collaboration with Department of Zoology is going to organize Guest Lectures for the students of Prashna Chinha Adivasi Ashram Shala, Mangarul Chavala on 7<sup>th</sup> March 2020. Mentioned faculty members are directed to kindly assist for the conduction of this activity.

*AW*  
Dr. Anant Wadatkhar  
Coordinator

*Relwas*  
Dr. Alka A. Bhise  
PRINCIPAL  
Vinayak Vidnyan Mahavidyalaya,  
Nandgaon Khan, Dist. Amravati

Sr. No.	Name of the Teacher	Signature
1.	Dr. Anant Wadatkhar, Department of Physics	<i>AW</i>
2.	Mr. Subodh Bansod, Department of Zoology	<i>SB</i>

### Staff Notice

Department of Mathematics in collaboration with Department of Physical Education had organized Different Activities for the students of Prashna Chinha Ashram Shala on 13<sup>th</sup> March 2020. Priti Deshmukh, Head department of Mathematics had delivered the lecture on the topic “Learning of Math’s concepts through Games”. Dr. Shyam Dalavi, Director of Physical Education, had delivered the lecture on the topic “Different Games in India”.



# Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

**Collaborating Agency: Garden Club, Amravati.**

**4) Name of the Activity: Three Days workshop entitled “Basic Gardening technique”.**

**Three Day Online Workshop on  
“BASIC GARDENING TECHNIQUES”**  
(Soil Mixture Making, Potting-Repotting & Kitchen Gardening)  
29<sup>th</sup> to 31<sup>st</sup> May, 2020 Daily 5.00 to 6.30 pm

**Organized by**  
Head. No. H-2/287  
AMRAVATI GARDEN CLUB  
HELP GARDENS GROW  
Love Plants, Save Life

**Collaboration**

- Kiran Nursery & Gardens, Amravati,
- Shri Shivaji Science College, Amravati
- Shri Shivaji Horticulture College, Amravati
- Shri Vinayak Vidnyan Maha., Nandgaon Kh.
- G. S. Tompe College, Chandur Bz.
- Rajashri Shahu Sci. College, Chandur Rly.

**Workshop Schedule:-**

29 <sup>th</sup> May	30 <sup>th</sup> May	31 <sup>st</sup> May
<b>Session 1: Soil Preparation</b> Dr. Suchita Khodke Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.	<b>Session 3: Potting/Repotting</b> Shri. Nilesh Futane Shri Shivaji Horticulture College, Amravati	<b>Session 5: Kitchen Gardening</b> Dr. Yugandhara Rajgure G. S. Tompe College, Chandur Bazar
<b>Session 2: Practical</b> Mr. Subhash Bhawe Kiran Nursery & Gardens, Amravati	<b>Session 4: Practical</b> Mrs. Shital Chitode Shri Shivaji Horticulture College, Amravati	<b>Session 6: Practical</b> Dr. Gajendra Pachlore Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

**Who Can Participate:** Any person desiring to develop own Garden  
**Conditions:** Full time participation, Online Registration and Feedback  
**How to participate:** Google Meet to PC/Laptop/Mobile  
**How to Register:** Last Date: 29 May upto 10.00 am  
**Registration Link:** <https://forms.gle/wHrGVtVem7ArMO16R> or Scan QR Code

Programme Flyer

Pravin Khodke Memorial Trust's  
**Vinayak Vidnyan Mahavidyalaya**  
Tq. Nandgaon Khandeshwar, Dist. Amravati

Department of Botany  
Permission letter

To  
The Principal  
Vinayak Vidnyan Mahavidyalaya  
Nandgaon (kh)

**Subject:** Seeking permission to organise “Three days workshop”

Respected Sir,

Department of Botany wishes to seek your permission for the conduction of “Three day workshop entitled Basic Gardening Techniques”. In collaboration with Kiran Nursery and Gardan, Amravati, Shri Shivaji science College, Amravati, Shri Shivaji Horticulture College, Amravati, G.S.Tompe College, Chandur Bazar and Rajashri Shahu Science College, Chandur Rly. The initiative is taken to develop gardening techniques of students.

We request you to grant us the permission to conduct the above said activity on 29 to 31 May 2020.

Regards.

Date: 20 MAY 2020

permission granted.

Dr. Suchita Khodke  
Head Dept. of Botany

Head  
Dept. of Botany  
Vinayak Vidnyan Mahavidyalaya  
Nandgaon Kh.

Principal Permission

Department of Botany in collaboration with **Garden Club, Amravati** had organized three days workshop on the topic **“Basic Gardening Technique”** from **29<sup>th</sup> May 2020 to 31<sup>st</sup> May 2020** via online platform Google Meet. The main objectives of the workshop were to provides basic knowledge of gardening to plant lovers. The resource persons for the workshop were **Dr. Suchita Khodke, Mr. Subhash Bhawe, Mr. Nilesh Futane, Mrs. Shital Chitode, Dr. Yugandhara Rajgure** and **Dr. Gajendra Pachlore.** Throughout the workshop there was discussion on Soil Preparation, Potting/ Repotting and Kitchen Gardening.

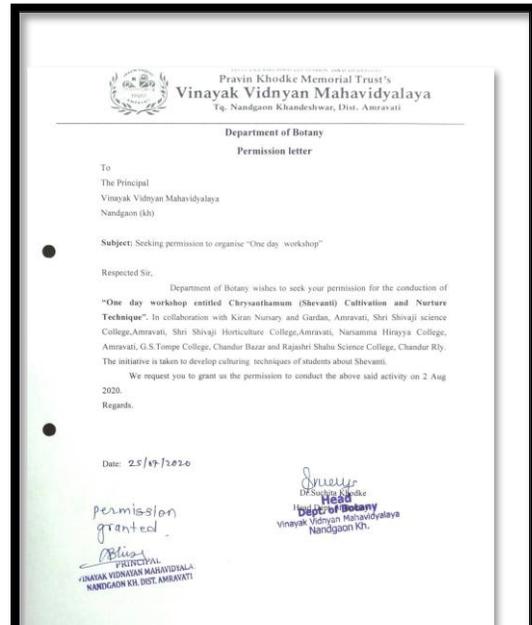


**Collaborating Agency: Garden Club, Amravati.**

**5) Name of the Activity: One day Workshop entitled “Shevanti Cultivation and Nurture Technique”**

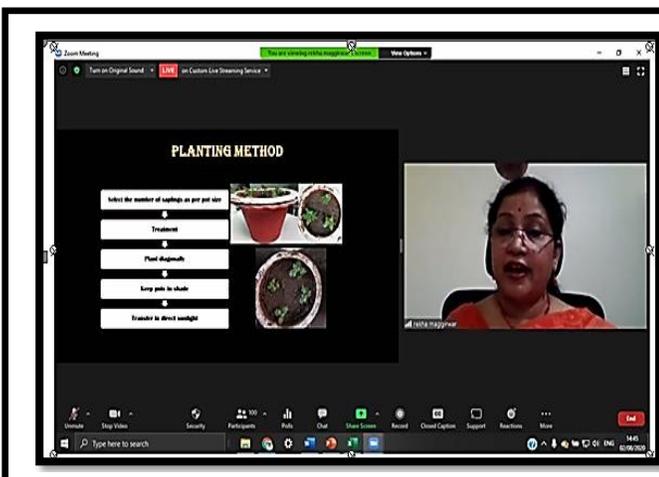


Programme Flyer



Principal Permission

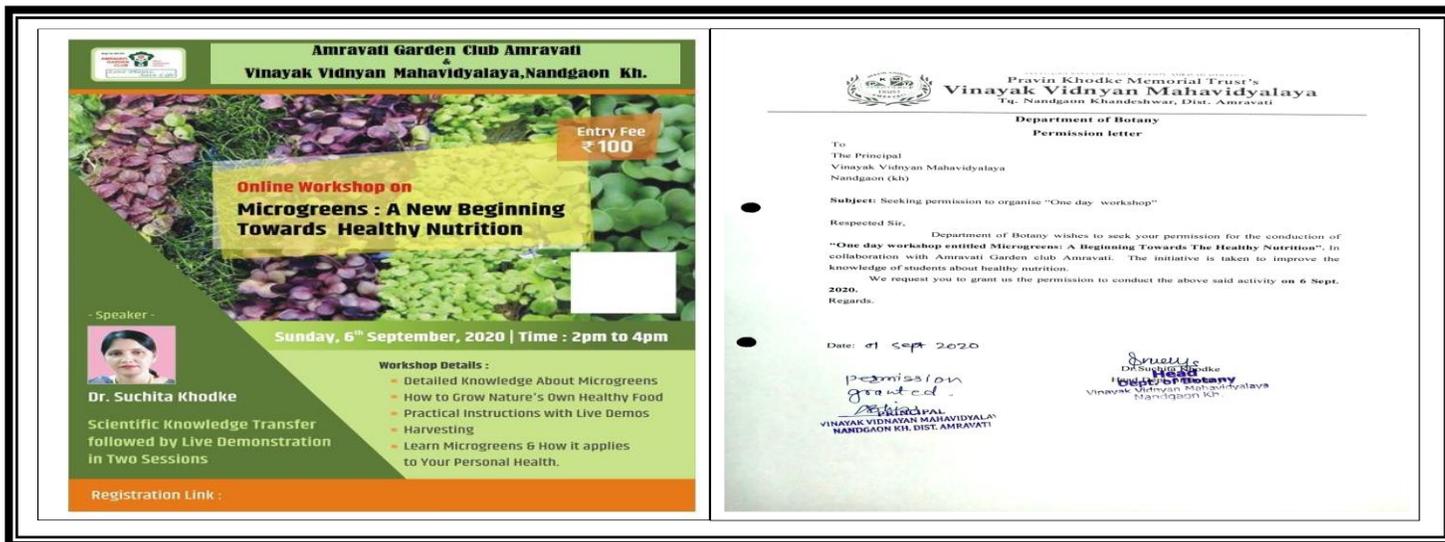
Department of Botany in collaboration with Garden Club, Amravati had organized one day workshop on the topic “Shevanti Cultivation and Nurture Technique” on 2<sup>nd</sup> August 2020 via online platform Zoom. The main objectives of the workshop were to provides basic knowledge techniques to grow and cultivate the plant, Shevanti. The resource persons for the workshop were Dr. Rekha C. Maggirwar, Shri Subhash Bhawe and Shri. Anil Bhode.



## ➤ II) Activities under MoU's in the year 2020-21

**Collaborating Agency:** Garden Club, Amravati.

**1) Name of the Activity:** One day workshop entitled “Microgreens: A beginning towards the healthy nutrition”



The image shows a promotional poster for an online workshop and a corresponding permission letter. The poster, titled "Online Workshop on Microgreens: A New Beginning Towards Healthy Nutrition", is organized by the Amravati Garden Club in collaboration with Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh. The speaker is Dr. Suchita Khodke, and the workshop is scheduled for Sunday, 6th September 2020, from 2pm to 4pm. The entry fee is ₹100. The poster lists workshop details: detailed knowledge about microgreens, how to grow nature's own healthy food, practical instructions with live demos, harvesting, and learning how microgreens apply to personal health. A registration link is provided at the bottom.

The permission letter is from the Department of Botany at Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh. It is addressed to the Principal and seeks permission to organize a one-day workshop. The letter states that the Department of Botany wishes to seek permission for the conduct of the "One day workshop entitled Microgreens: A Beginning Towards The Healthy Nutrition" in collaboration with Amravati Garden club Amravati. The initiative is taken to improve the knowledge of students about healthy nutrition. The letter requests permission to conduct the activity on 6th Sept. 2020. The date of the letter is 01 Sept 2020. The permission is granted by the Principal, Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

Department of Botany in collaboration with Garden Club, Amravati had organized one day workshop on the topic “Microgreens: A Beginning Towards the Healthy Nutrition” on 6<sup>th</sup> September 2020 via online platform Zoom. The main objectives of the workshop were to aware the society about the importance of healthy diet and regular physical activity. The resource person for the workshop was Dr. Suchita Khodke, IQAC Coordinator, Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar. The session focused on information about the Microgreens,



**Collaborating Agency: Garden Club, Amravati.**

**2) Name of the Activity: Three days workshop entitled “Gardening Techniques and Management.”**

**Amravati Garden Club, Amravati**  
In Association with  
**Vinayak Vidnyan Mahavidyalaya, Nandgaon (kh)**  
And  
**G.S.Tompe Arts, Comm & Science College, Chandur Bazar**  
Presents

**"Be the Creator of Your Own Garden"**  
A Three Days Online Workshop on  
**Advance Gardening Techniques and Management**  
26-28 June, 2021

Registration Free

**Day 1** 26 June 2021  
**Soil Reclamation, Bio composting & Repotting**  
Dr. Suchita Khodke

**Day 2** 27 June 2021  
**Creative Garden Planning & Management**  
Dr. Chandrashekar Deshmukh

**Day 3** 28 June 2021  
**Foundation Program for 2 Months Workshop And**

Time: 11:00 am to 2:00 pm  
Who Can Participate: Students, Teachers And Garden Lovers  
Conditions: Full time participation, Online Registration and Feedback  
How to participate: Zoom meeting on PC/Laptop/Mobile only registered participants will get the link.  
How to Register: Last Date: 25 June 2021 evening 5.00pm  
Registration Link : <https://tinyurl.com/30ayAGTM>  
Certificate will be provided to only those who will participate all 3 days.

Convener: Dr. Gajendra Pachlore  
Organizing Secretary: Dr. Umesh Kanerkar

**Programme Flyer**

Regd. No. B-9-797  
**AMRAVATI GARDEN CLUB**  
Love Plants, Save Life

Amravati Garden Club Amravati in Collaboration with  
Vinayak Vidnyan Mahavidyalaya, Nandgaon (KH) and  
G. S. Tompe Mahavidyalaya, Chandur Bazar

Organizes  
Three Day Online Workshop on  
**Advance Gardening Techniques and Management**  
26<sup>th</sup> to 28<sup>th</sup> June, 2021

Programme Details: Daily 11.00 AM to 2.00 PM

S.N.	Event Details	Speaker	Time
<b>26<sup>th</sup> June 2020</b>			
1	Welcome to the Guests, Resource Person and Participants	Dr. Gajendra Pachlore	5 min
2	First Session - <b>Soil Reclamation, Bio composting, Potting and Repotting</b>	Dr. Suchita Khodke	50 min
3	Second Session - Live Demonstration	Mr. Subhash Bhawe Prof. Sheetal Dagwar Prof. Swapnil Tikhade	40 min
<b>27<sup>th</sup> June 2020</b>			
4	First Session - <b>Creative Garden Planning and Management</b>	Prof. C. M. Deshmukh	50 min
5	Second Session - Live Demonstration	Mr. Mukund Raut Mrs. Bhagat Dr. Rekha Maggirwar Dr. Suchita Khodke Mr. Subhash Bhawe	60 min
<b>28<sup>th</sup> June 2020</b>			
6	<b>Foundation Programme for Two Month Certificate Course</b> affiliated to University and Agriculture Department	Dr. D. D. Khedkar Dr. Rekha Maggirwar	60 Min
6	Panel Discussion and Interaction Session	Prof. C. M. Deshmukh Dr. Suchita Khodke Dr. Rekha Maggirwar Dr. D. D. Khedkar	50 min
7	Vote of Thanks	Dr. Umesh Kanerkar	5 min

Link to Join Workshop on Zoom: Daily 11.00 AM to 2.00 PM  
<https://tinyurl.com/AGTM-ZOOM>  
Meeting ID: 879 7928 6374 Passcode: Garden

All the registered participants can download certificates on 29<sup>th</sup> June 2021 after 12.00 Noon  
Log on to following website for Certificates : [www.agca.webs.com](http://www.agca.webs.com)

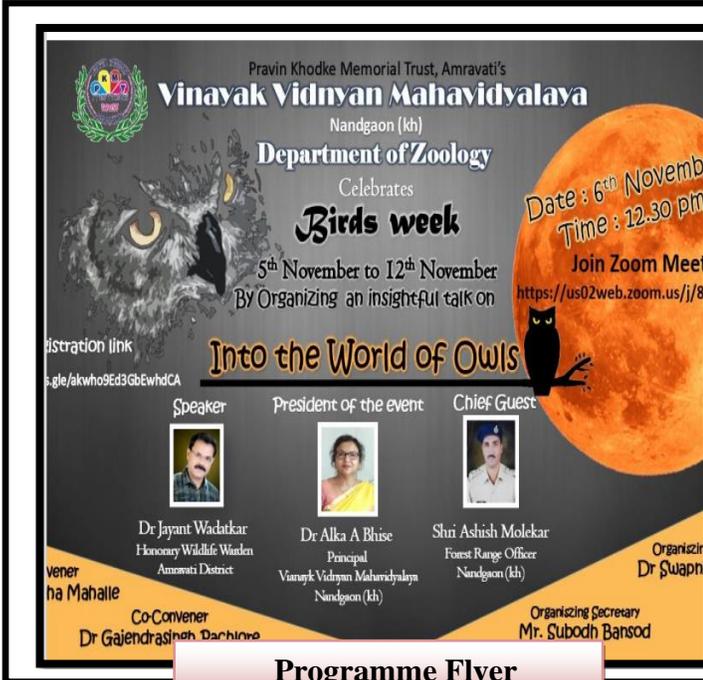
Department of Botany in collaboration with **Garden Club, Amravati** had organized three days workshop on the topic **“Gardening Technique and Management”** from **26<sup>th</sup> June 2021 to 28<sup>th</sup> June 2021** via online platform Zoom. The basic idea behind the workshop was to provide advance skills to plant growers for developing their gardens. The sessions of the workshop had detail discussion on various techniques to developed a good garden at home.



# Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

**Collaborating Agency: Wild Life and Environment Conservation Society, Amravati.**

**2) Name of the Activity: Celebrated “Birds Week”.**



The flyer is for a Zoom meeting titled "Into the World of Owls" on 6th November at 12:30 PM. It is organized by the Department of Zoology at Vinayak Vidnyan Mahavidyalaya, Nandgaon (Kh). The event is a talk by Dr. Jayant Wadkatkar, with Dr. Alka A. Bhise as the President and Shri. Ashish Molekar as the Chief Guest. The flyer also lists the organizing secretary, Mr. Subodh Bansod, and the co-convenor, Dr. Gajendrasinh Dachore.

**Programme Flyer**

Date: \_\_\_\_\_

To  
The Principal  
Vinayak Vidnyan Mahavidyalaya  
Nandgaon (kh)

Subject: Seeking permission to celebrate Birds week program from 5<sup>th</sup> to 12<sup>th</sup> November 2020  
Reference: शासन निर्णय क्रमांक : डब्ल्यूएलपी/1020/प्र.क्र.197/फ-1

Respected Madam

As per the letter mention in the reference above, Department of Zoology wish to seek your permission to celebrate Birds week Program to commemorate the birth anniversary of two great ornithologist from Maharashtra Shri Maruti Chitampalli (5<sup>th</sup> November ) and Dr Salim Ali ( 12<sup>th</sup> November).We are planning to conduct an awareness campaign which will include Lecture by expert on birds conservation.

We hope you will consider our request and grant us the permission

Thanking You

Dr Pratibha Mahalle  
Head Department of Zoology

Principal Permission

Department of Zoology in collaboration with **Wild Life and Environment Conservation Society, Amravati** had celebrated **“Birds Week”** from **5<sup>th</sup> November 2020 to 12<sup>th</sup> November 2020** via online platform Zoom. The idea behind this celebration was to conveyed and spread the message of bird’s conservation. They took efforts created an opportunity for the students to get aware towards the most covert of all the birds, the owls.



# Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

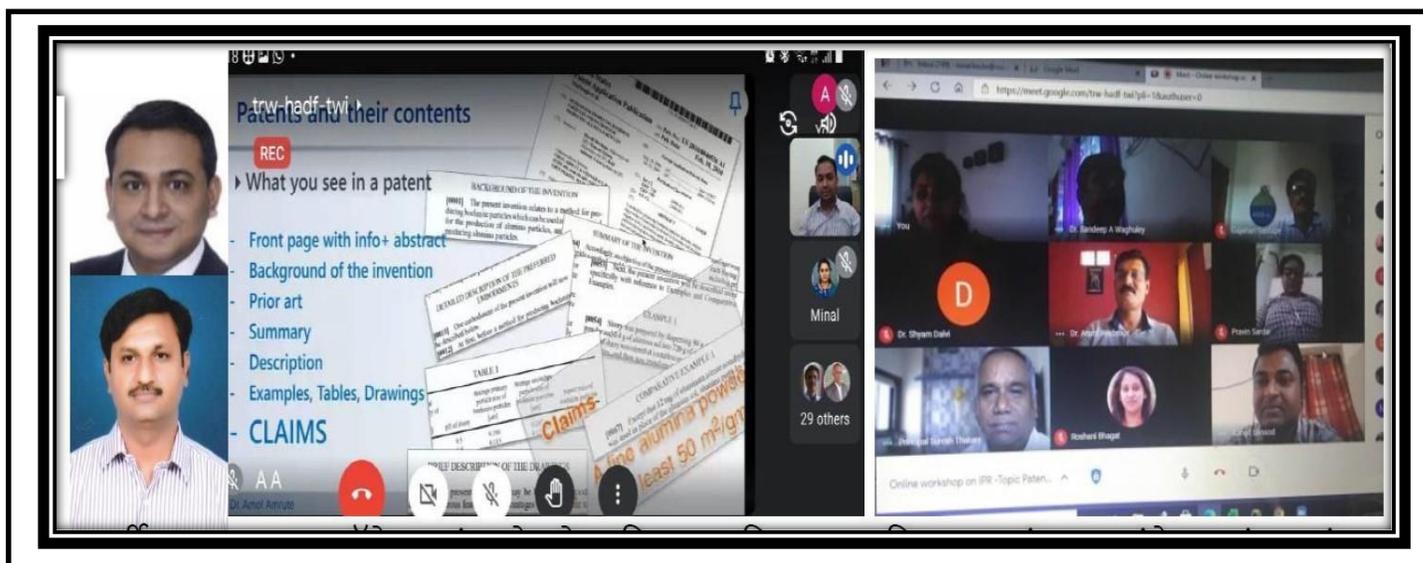
**Collaborating Agency/Institute:** Rajarshee Shahu Science College, Chandur Railway.

**3) Name of the Activity:** One Day Workshop on “Intellectual Property Rights”



Programme Flyer

IQAC of both the institutes had organized one day online workshop on **“Intellectual Property Rights,”** on **26<sup>th</sup> April 2021** via google meet platform for all faculty members of both the colleges. The resource person for the workshop was **Dr. Amol Amrute** and **Dr. Sandip Waghule**. The motive behind organization of this workshop were, faculty members must understand the process, documentation required for filling the patent. They must understand the concept of Intellectual property rights.



**Collaborating Agency/Institute: K.P.T. Arts, Science and M.S.P. Commerce College, Manora.**

**5) Name of the Activity: One Day guest lecture on the topic “Metal Carbonyl”**

VINAYAK VIDNYAN MAHAVIDYALAYA  
NANDGAON KH.

DEPARTMENT OF CHEMISTRY

ORGANIZE  
ONLINE GUEST LECTURE  
ON  
METAL CARBONYL

GUEST SPEAKER  
**Dr. Swapnil D. Bhagat**  
Assistant Professor  
Department of Chemistry  
M.S.P. Arts, Science and K.P.T.  
Commerce College, Manora.

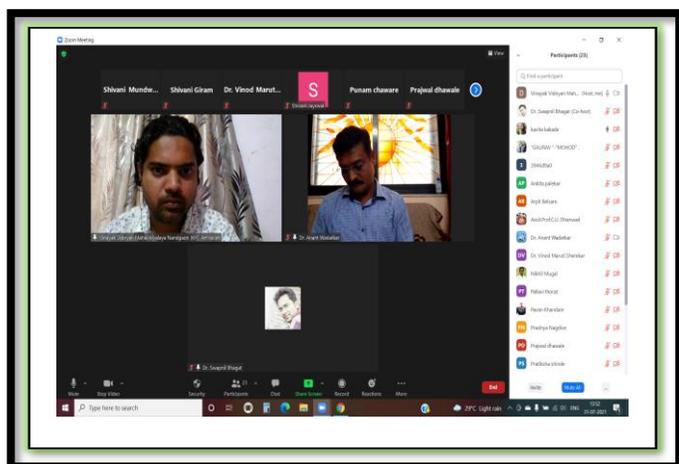
DATE: 31/07/2021 DAY: SATURDAY

**Programme Flyer**

VINAYAK VIDNYAN MAHAVIDYALAYA  
NANDGAON KH.

Sr. No	Event	Time	Guest/Speaker
1	Welcome of Guest	01.30 PM-01.45 PM	1. Dr. Alka A. Bhise (Principal) 2. Dr. Swapnil Bhagat (Guest Speaker)
2	Introduction of Guest	01.45 PM-02.00 PM	By Mr. Nilesh Padole (Head of Department)
3	Presidential Speech	02.00 PM-02.15 PM	Dr. Alka A. Bhise Principal
4	Guest Lecture	02.30 PM-03.30 PM	Dr. Swapnil Bhagat (Guest Speaker)
5	Vote of Thank	03.30 PM-03.45 PM	Dr. Vinod M. Sherekar (Assistant Professor)

Department of Chemistry had organized one day online guest lecture of **Dr. Swapnil Bhagat**, on the topic “**Metal Carbonyl**” on **31<sup>st</sup> July 2021** for the students of B.Sc. Part III students. This lecture was organized via online platform Zoom. The topic selected for the lecture was a part of university syllabus. **Dr. Anant Wadatkar**, Head, Department of Physics was present as chief guest for the guest lecture.



**Classification of Organometallic Compounds**

There are of three types on the basis of nature of Metal-Carbon bonds

- 1) Sigma Bonded Compounds**  
Sigma bond is formed between the metal and carbon atom. Ex: Grignard reagent.
- 2) Pi- Bonded Compounds**  
When in the compound there is bonding between metal and delocalised electronic cloud of organic molecule such compounds are termed as pi-bonded compounds. Ex: Ferrocene

- 3) Multiple bonded Molecule**  
When in the compounds there is formation of pi as well as sigma bonds between the metal and carbon atoms such compounds are termed as multiple bonded molecules.

Ex: Dimeric Cobalt Carbonyl: In which Sigma bond is formed by donation of electron pair from carbon monoxide and pi-bond is formed by donation of electron by metal to carbon monoxide

## ➤ III) Activities under MoU's in the year 2021-22

**Collaborating Agency: Wild Life and Environment Conservation Society, Amravati.**

### **1) Name of the Activity: "My Bappa Campaign"**

प्रविण खोडके मेमोरीयल ट्रस्ट, अमरावती द्वारा संचालित  
**विनायक विज्ञान महाविद्यालय**  
 नांदगाव खंडेश्वर, जि. अमरावती  
 प्राणिशास्त्र विभाग, ग्रीन आर्मी क्लब व  
**वाइल्ड लाईफ अॅन्ड एन्वायमेंट कन्झर्वेशन सोसायटी, अमरावती**  
 द्वारा आयोजित

**"MY BAPPA"**  
 "जोडा पर्यावरणारी नाती, बसवा मातीचे गणपती"

10 INCH	11 INCH	11 INCH	12 INCH	13 INCH
Rs. 250/-	Rs. 300/-	Rs. 300/-	Rs. 350/-	Rs. 550/-

डा. अलका भिमे प्राचार्य  
 डॉ. अंजली देशमुख अध्यक्ष, WECS  
 डॉ. जयंत वडनकर सचिव, WECS  
 डॉ. सुचिता खोडके समन्वयक, IQAC  
 डॉ. प्रतिभा मद्दले विभाग प्रमुख, प्राणिशास्त्र विभाग

- आयोजन समिती -  
 डॉ. गजेन्द्र पचलोरे श्री. सुबोध बनसोड श्री. स्वप्निल तिनखेडे श्री. शिलानंद हिंवराले

To  
 The Principal,  
 Vinayak Vidnyan Mahavidyalaya  
 Nandgaon (kh)

**Subject:** Seeking permission to organise **"MY BAPPA"** a green initiative to create awareness against use of Plaster of Paris (POP) idol of Lord Ganesh

Respected Madam,

Department of Zoology and Green Army Club wishes to seek your permission for the conduction of **"MY BAPPA"** a green initiative to create awareness against POP idol of Lord Ganesh. The initiative is going to be conducted in association with Wildlife Environment conservation Society (WECS), Amravati under the MoU Signed between Dept. of Zoology and WECS, Amravati

We request you to grant us the permission to conduct the above said activity from **8<sup>th</sup> to 10<sup>th</sup> September 2021**

Regards

Department of Zoology  
 Vinayak Vidnyan Mahavidyalaya  
 Nandgaon (Kh)

Department of zoology in collaboration with WECS had celebrated **"My Bappa"** from **8<sup>th</sup> September to 10<sup>th</sup> September 2021**. The main motive behind this campaign was to aware the society as well as the students about the use of Clay Idol instead of Plaster of Paris. This activity will help the society to eliminate the pollution cause due to Plaster of Paris. Under this campaign, department of zoology also sold-out clay idols of Ganesh Bappa.



# Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

**Collaborating Agency: Wild Life and Environment Conservation Society, Amravati.**

## 2) Name of the Activity: Celebrated “World Sparrow Day”

Pravin Khodke Memorial Trust, Amravati's  
**Vinayak Vidnyan Mahavidyalaya**  
Nandgaon (kh)  
**Department of Zoology**  
In Association with  
**Wildlife & Environment Conservation Society**  
Amravati  
Celebrates  
**World Sparrow Day** 20<sup>th</sup> March..  
An Insightful talk on birds and birding  
**Backyard Birds**  
Guest Speaker: Mr Kiran More (Birding expert)  
Monday  
21<sup>st</sup> March  
2022  
@12.00 pm  
Convener  
Dr. Gajendrasingh Pachlore  
Assistant Professor  
Dept. of Zoology  
Principal  
Dr. Alka Bhise  
Vinayak Vidnyan Mahavidyalaya  
Nandgaon (kh)  
Organizing Secretary  
Dr. Pratibha Mahalle  
Assistant Professor & Head  
Dept. of Zoology  
Organizing Members  
Mr. Subodh Bansod  
Assistant Professor  
Dept. of Zoology  
Ms. Rajani Chavhan  
President  
Zoological Society 2021-22  
Dr. Swapnil Tinkhede  
Assistant Professor  
Dept. of Zoology

Programme Flyer

Permission letter  
To  
The Principal  
Vinayak Vidnyan Mahavidyalaya  
Nandgaon (kh)  
Subject: Seeking permission to conduct "World Sparrow Day" on 21<sup>st</sup> March 2022  
Respected Madam,  
Department of Zoology wishes to seek your permission for the conduction of "World Sparrow Day" on 21<sup>st</sup> March 2022. The department of Zoology wish to conduct a talk on the eve of "world Sparrow Day" which is celebrated on 20<sup>th</sup> March of every year. This year the day is falling on Sunday , Hence we seek your permission to celebrate it on 21<sup>st</sup> March 2022. We request you to grant us the permission to conduct the above said activity on 21<sup>st</sup> March 2022.  
Regards.  
Dr Pratibha Mahalle  
H.O.D  
Zoology

Principal Permission

Department of Zoology in collaboration with **Garden Club, Amravati** had celebrated **“World Sparrow Day”** on **21<sup>st</sup> March 2022** by organizing seminar for the students on the topic **“Backyard Birds”**. The speaker for the seminar was **Shri. Kiran more**. The main intent behind the organization of this seminar was to create the curiosity of the students towards the birds. **Shri. More** had explained very thoroughly about the biodiversity of birds where students shown good interaction with the speaker



# Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

**Collaborating Agency: Rajarshee Shahu Science College, Chandur Railway.**

**3) Name of the Activity: Workshop on “Use of Virtual Laboratory in teaching and learning”.**

Department of Physics, Rajarshee Shahu Science College, Chandur Rly In Collaboration with IQAC, RSSC, Chandur Rly & Department of Physics, Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar Jointly Organised State Level Online Workshop for Faculty Members on "Use of Virtual Laboratory in Teaching & Learning"		SCHEDULE OF WORKSHOP	
<b>President</b>  Dr. Suresh S. Thakare Principal Rajarshee Shahu Science College, Chandur Rly, Amt	<b>Chief Guest</b>  Dr. Alka A. Bhisre Principal Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar, Amt.	12.30 pm	Welcome Address Dr. M. J. Kechhe, Head & IQAC Co-ordinator, Department of Botany, BSSC Chandur Rly
<b>Resource Person</b>		12.33 pm	Introductory Speech Mr. S.A. Wani, NAAC Co-ordinator, Asst. Prof. Dept. of Physics, BSSC, Chandur Rly
 Dr. Pankaj Nagpure Assistant Professor, Dept. of Physics Shri Shriji Science College, Amt	 Dr. Shrikant Patil Assistant Professor, Dept. of Botany Adarsh Science College, Dhannanganu Rly	12.38 pm	Introduction of Resource Person Dr. Pankaj Nagpure Dr. Anant Wadalkar, Convener, Head & Asst. Prof., Dept. of Physics, Vinayak Vidnyan Mahavidyalaya, Nandgaon Khand.
		12.42 pm 1.10 Pm	Guest Talk Question-Answer Session Dr. Pankaj Nagpure, Asst. Prof., Dept. of Physics Shri Shriji Science College, Amt.
		1.15pm	Introduction of Resource Person Dr. Shrikant Patil Dr. Roshani Bhagat, Convener, & Asst. Prof., Department of Physics, BSSC, Chandur Rly
		1.20 pm 1.50 pm	Guest Talk Question-Answer Session Dr. Shrikant Patil, Assistant Professor, Dept. of Botany Adarsh Science College, Dhannanganu Rly
		2.00 pm	Valuable Guidance by Chief Guest Dr. Alka A. Bhisre, Principal, Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar,
		2.15 pm	Presidential Speech Dr. Suresh S. Thakare, Principal, Rajarshee Shahu Science College, Chandur Rly
		2.28 pm to 2.30 pm	Vote of Thanks Dr. Roshani Bhagat, Convener, & Asst. Prof., Department of Physics, BSSC, Chandur Rly

On dated 15 Sept. 21

**Programme Flyer**

To  
**The Principal**  
Vinayak Vidnyan Mahavidyalaya,  
Nandgaon Khandeshwar, Dist.: Amravati

**Subject:** Permission to organize the State Level Online Workshop for Faculty Members on "Use of Virtual Laboratory in Teaching & Learning."

Respected Madam.

As per the above-cited subject. Department of Physics, Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar, Dist. Amravati is planning to organize the State Level Online Workshop for Faculty Members on "Use of Virtual Laboratory in Teaching & Learning" on 15<sup>th</sup> September 2021, in collaboration with Department of Physics and IQAC, Rajarshee Shahu Science College Chandur Railway, Dist.: Amravati.

Please permit us to organize the above-mentioned event. Information flyer of the Workshop is attached with this letter.

Thanking you.

Date: 7 Sept. 2021

Place: Nandgaon Khandeshwar

Yours Sincerely  
  
Dr. Anant S. Wadalkar  
Head  
Department of Physics

Permission granted  
  
PRINCIPAL  
Vinayak Vidnyan Mahavidyalaya,  
Nandgaon Khand. Dist. Amravati

**Principal Permission**

By considering the Pandemic situation facing by the world and educational field, IQAC of both the institutes had organized one day online workshop on **“Use of Virtual Laboratory in teaching and learning,”** on **15<sup>th</sup> September 2021** via google meet platform for all faculty members of both the colleges. The resource person for the workshop were **Dr. Pankaj Nagpure** and **Dr. Shrikant Patil**. In this workshop, speakers had provided the information of virtual laboratory for the subjects like **Physics, Chemistry, Botany and Zoology**. They also provided the information about their subscription. This will help to use virtual source to run our academic and helpful to the students.

Registration Link-  
<https://forms.gle/iAGW6AnnY6Z97reR9>



Dr. A. P. Parkhware  
Head, & Asst. Prof., Department of Physics,  
Rajarshee Shahu Science College,  
Chandur Rly, Amt

Organizing Committee



Mr. S.A. Wani  
NAAC Co-ordinator, Asst. Prof. Dept. of Physics, BSSC, Chandur Rly



Dr. M. J. Kechhe  
Head & IQAC Co-ordinator, Department of Botany, BSSC Chandur Rly

Event Link-  
<meet.google.com/kzx-cnkmq-xmd>



Dr. Roshani Bhagat  
Convener, & Asst. Prof., Department of Physics,  
Rajarshee Shahu Science College,  
Chandur Rly, Amt



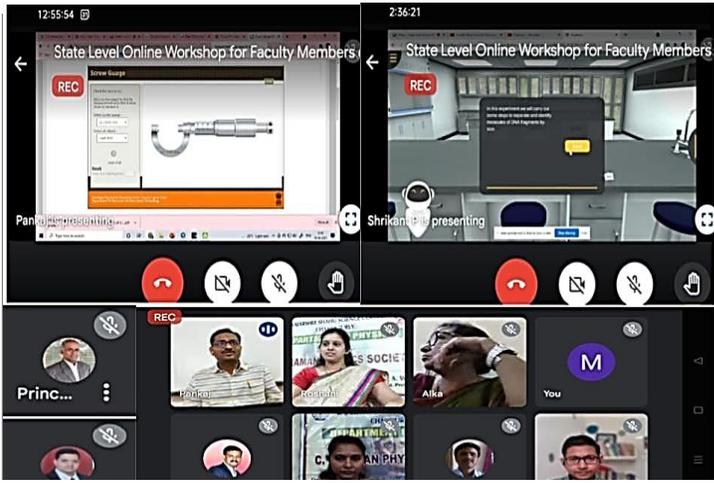
Dr. Anant Wadalkar



Dr. Pankaj Nagpure



Dr. Shrikant Patil



**Collaborating Agency: Prashna Chinha Ashram Shala, Mangarul Chavala.**

**4) Name of the Activity: Celebrated “Ozone Day” for the students of Ashram School”**



To,  
The Principal,  
Vinayak Vidnyan Mahavidyalaya,  
Nandgaon Kh.

**Subject:** Seeking permission to conduct “**OZONE DAY**” program at Prashna China School at Mangrul-Chavala

Respected Madam,

On behalf of Department of Zoology, I Dr Pratibha Mahalle, head Dept. Of Zoology would like to request you to grant us the permission to conduct a program at Prashna China School at Mangrul Chavala on the occasion of OZONE DAY on 16<sup>th</sup> September 2021. The department of Zoology wish to screen a documentary on OZONE DEPLETION to the residential students of the School.

I hope you will grant us the permission for the above mention event.

Date:

Your Faithfully

Dr. Pratibha Mahalle  
Head,  
Dept. of Zoology.

**Principal Permission**

Department of zoology had celebrated “**Ozone Day**” at Prashna Chinha Ashram School on **16<sup>th</sup> September 2021**. The main intent behind the celebration was to aware the students about the importance of trees in human life as well as to highlight the fact that Ozone layer is depleting continuously and everyone should try to help to keep environment clean which will ultimately help to improve the nature. **Mr. Subodh Bansod** and **Dr. Gajendrasingh Pachlore** had interacted with the students and shown them power point presentation for the effective understanding of the topic.



# Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

**Collaborating Agency:** Central Instrumental Cell, Shri Shivaji Science College, Amravati.

**5) Name of the Activity:** One educational visit to CIC, Amravati.



Date: 26<sup>th</sup> April 2022

To

The Principal,

Shri Shivaji Science College, Amravati.

Subject- Permission to Visit Central Instrumentation Cell.

Respected Sir,

With reference to the above-mentioned subject the department of Chemistry of Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar Dist. Amravati has organized a visit to "Central Instrumentation Cell" of your institute under the MoU signed between the two institutes. The students of B.Sc. Part III and the teachers will visit your college on 6<sup>th</sup> April 2022. There are about 30 students who are going to visit the institutes.

Kindly grants us the permission for the same. The list of students and teachers attached along with this application.

- 1) Mr. Nilesh S. Padole- (Mobile Number: 9096312784)
- 2) Dr. Kavita P. Kakade - (Mobile Number: 7559262365)
- 3) Dr. Vinod M. Sherekar- (Mobile Number: 9623327576)

Thanking You!

Yours Faithfully

Dr. Alka A. Bhise  
Principal  
Vinayak Vidnyan Mahavidyalaya  
Nandgaon Khandeshwar.

## Principal Permission

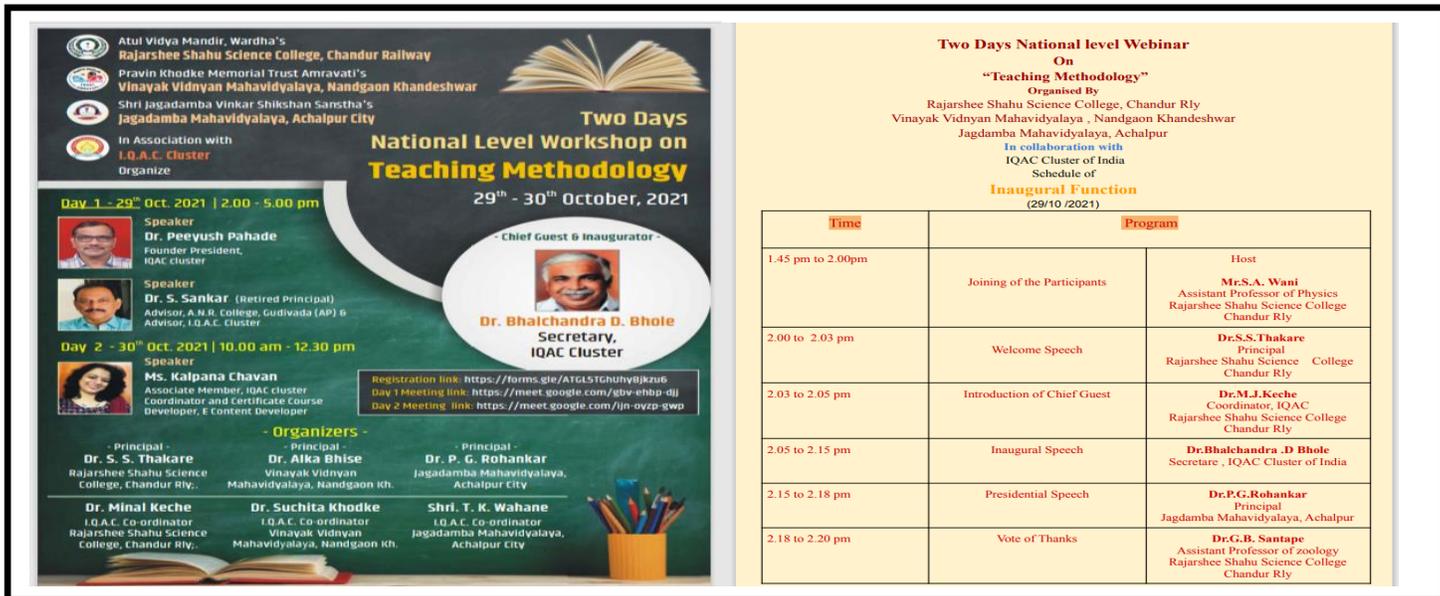
Department of Chemistry had organized one day educational visit for the students of B.Sc. Part III to **“Central Instrumental Cell”** Shri Shivaji Science College, Amravati on **6<sup>th</sup> April 2022**. Total **Twenty-Nine (29)** students had participated in the educational visit. During the visit students got the information of working and processing of the different instruments like **UV- Spectrometer, X-ray, Infra-red Spectrophotometer, HPLC and Atomic Absorption Spectrometer** and their role while determining the structure of unknown organic compound.



# Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

**Collaborating Agency/Institute: IQAC Cluster, Pune.**

## **6) Name of the Activity: Two Day's National Level Workshop on "Teaching Methodology"**



**Two Days National Level Webinar On "Teaching Methodology"**  
Organised By  
Rajarshee Shahu Science College, Chandur Rly  
Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar  
Jagdamba Mahavidyalaya, Achalpur  
In collaboration with  
IQAC Cluster of India  
Schedule of  
**Inaugural Function**  
(29/10 /2021)

Time	Program	
1.45 pm to 2.00pm	Joining of the Participants	Host <b>Mr.S.A. Wani</b> Assistant Professor of Physics Rajarshee Shahu Science College Chandur Rly
2.00 to 2.03 pm	Welcome Speech	<b>Dr.S.S.Thakare</b> Principal Rajarshee Shahu Science College Chandur Rly
2.03 to 2.05 pm	Introduction of Chief Guest	<b>Dr.M.J.Keche</b> Coordinator, IQAC Rajarshee Shahu Science College Chandur Rly
2.05 to 2.15 pm	Inaugural Speech	<b>Dr.Bhaichandra .D Bhole</b> Secretary , IQAC Cluster of India
2.15 to 2.18 pm	Presidential Speech	<b>Dr.P.G.Rohankar</b> Principal Jagdamba Mahavidyalaya, Achalpur
2.18 to 2.20 pm	Vote of Thanks	<b>Dr.G.B. Santape</b> Assistant Professor of zoology Rajarshee Shahu Science College Chandur Rly

**Two Days National Level Workshop on Teaching Methodology**  
29<sup>th</sup> - 30<sup>th</sup> October, 2021

**Chief Guest & Inaugurator -**  
**Dr. Bhaichandra D. Bhole**  
Secretary, IQAC Cluster

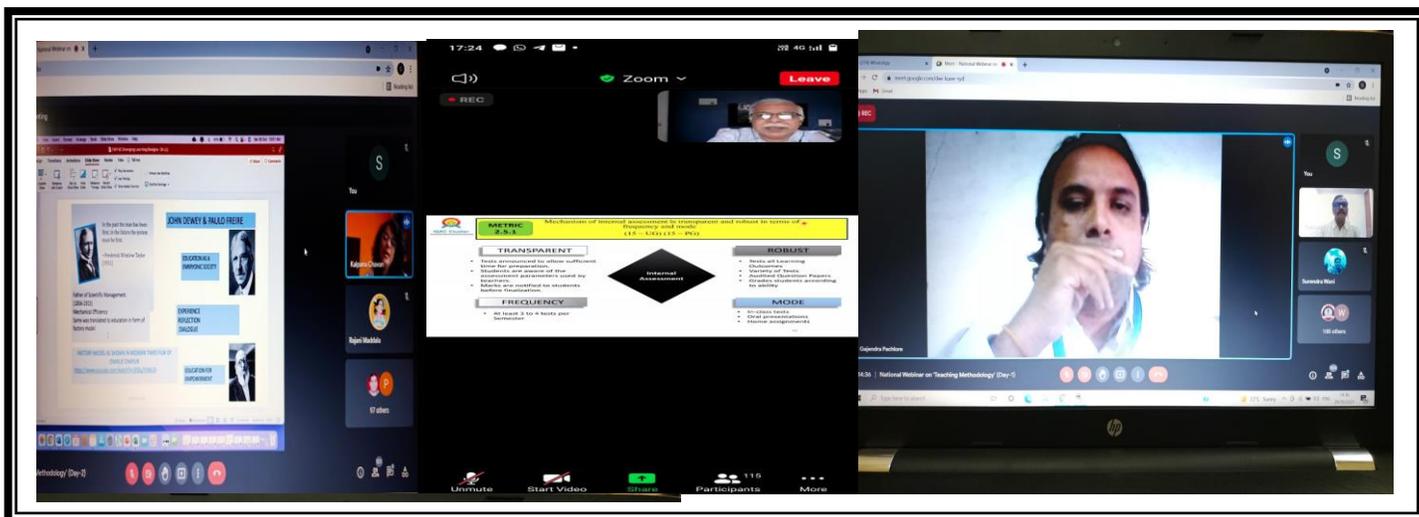
**Day 1 - 29<sup>th</sup> Oct. 2021 | 2.00 - 5.00 pm**  
Speaker  
**Dr. peeyush Pahade**  
Founder President, IQAC cluster

**Day 2 - 30<sup>th</sup> Oct. 2021 | 10.00 am - 12.30 pm**  
Speaker  
**Ms. Kalpana Chavan**  
Associate Member, IQAC cluster  
Coordinator and Certificate Course Developer, E Content Developer

**Organizers -**  
Principal - **Dr. S. S. Thakare** (Rajarshee Shahu Science College, Chandur Rly.)  
Principal - **Dr. Alka Bhise** (Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.)  
Principal - **Dr. P. G. Rohankar** (Jagdamba Mahavidyalaya, Achalpur City)  
Dr. Minal Keche (IQAC Co-ordinator, Rajarshee Shahu Science College, Chandur Rly.)  
Dr. Suchita Khodke (IQAC Co-ordinator, Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.)  
Shri. T. K. Wahane (IQAC Co-ordinator, Jagdamba Mahavidyalaya, Achalpur City)

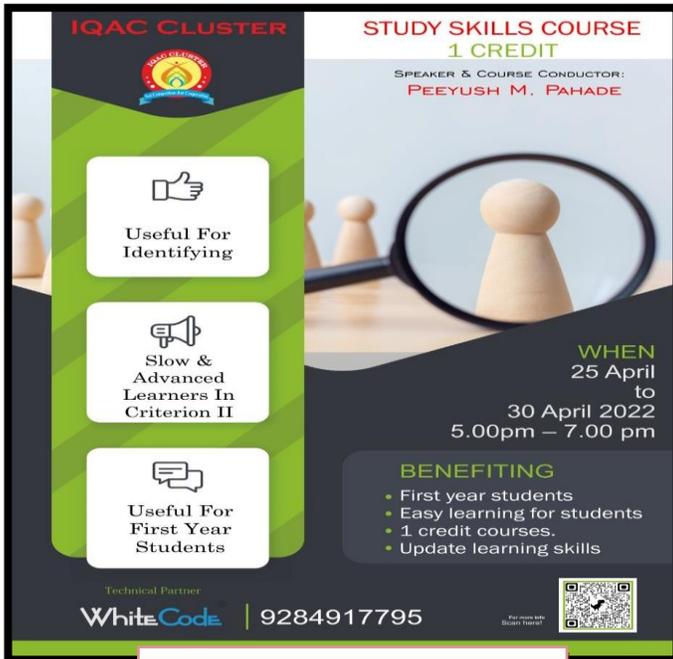
Registration link: <https://forms.gle/ATGL5TchuliyvjkZuf>  
Day 1 Meeting link: <https://meet.google.com/gby-ehhp-dj>  
Day 2 Meeting link: <https://meet.google.com/fjn-oyzj-swo>

Two days online National level workshop on **"Teaching Methodology"** was organized on **29<sup>th</sup> and 30<sup>th</sup> October 2021** in collaboration with **IQAC Cluster of India, Pune** and **Vinayak Vidnyan Mahavidyalaya, Rajarshee Shahi Science college and Jagdamba Mahavidyalaya**. The speakers for the workshop were, **Dr. Peeyush Pahade, Dr. S. Sankar and Ms. Kalpana Chavan**. During the two days workshop, there was thorough discussion on Evolution of teaching methodologies, teaching pedagogies, Innovative and Blended teaching learning.



**Collaborating Agency: IQAC Cluster, Pune.**

**7) Name of the Activity: One Week Online “Soft Skill Learning Course”**



**IQAC CLUSTER**

**STUDY SKILLS COURSE**  
1 CREDIT

SPEAKER & COURSE CONDUCTOR:  
**PEEYUSH M. PAHADE**

Useful For Identifying

Slow & Advanced Learners In Criterion II

Useful For First Year Students

WHEN  
25 April to 30 April 2022  
5.00pm – 7.00 pm

**BENEFITING**

- First year students
- Easy learning for students
- 1 credit courses.
- Update learning skills

Technical Partner  
**WhiteCode** | 9284917795

QR Code

**Programme Flyer**

To,  
The Principal,  
Vinayak Vidnyan Mahavidyalaya,  
Nandgaon Khandeshwar.

**Subject:** Permission to enroll students of B.Sc. and B.Com. Part I for “Study Skills Learning Course”.

Respected Madam,

With reference above mentioned subject, as a part of MoU with IQAC cluster Pune, IQAC of Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar is going to organizes one week “Study Skills Learning Course” for the students of B.Sc. and B.Com. Part I of academic session 2021-22 from 25<sup>th</sup> April 2022 to 30<sup>th</sup> April 2022 in collaboration with IQAC Cluster of Pune. The course is online mode and will conduct via ZOOM platform from 5 PM to 7 PM in the evening. Dr. Dashrath Kale, Assistant Professor, department of Commerce will be coordinator for the course.

I kindly request to you, to give permission to organize this workshop.

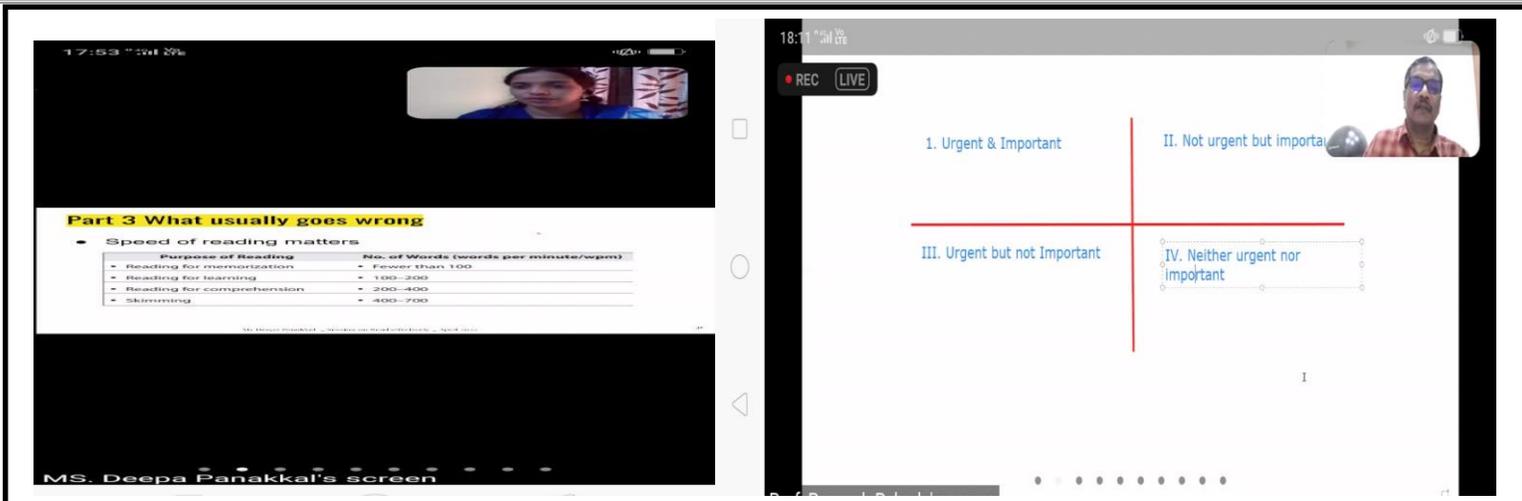
**Date:** 20<sup>th</sup> April 2022

**Dr. Suchita P. Khodke**

**IQAC Coordinator**  
Vinayak Vidnyan Mahavidyalaya,  
Nandgaon Khandeshwar.

**Principal Permission**

IQAC of Vinayak Vidnyan Mahavidyalaya in collaboration with IQAC Cluster, Pune had organized “Study Skill Learning Course” from 25<sup>th</sup> April 2022 to 1<sup>st</sup> May 2022 via online platform for the students of B.Sc. and B.Com. Part I. The key note speaker for this online course were Dr. Piyush M. Pahade, and Miss. Deepa Panakkal. The main motive behind the organization of the workshop was student must be able to read the content carefully, to learn the content, to express the knowledge in proper way and to prepare the students for the future challenges. Dr. Dashrath Kale and Dr. Vinod Sherekar had taken all the responsibilities for the successful conduction of the course.



17:53

Part 3 What usually goes wrong

- Speed of reading matters

Purpose of Reading	No. of Words (words per minute/wpm)
• Reading for memorization	• Fewer than 100
• Reading for learning	• 100-200
• Reading for comprehension	• 200-400
• Skimming	• 400-700

18:11

REC LIVE

I. Urgent & Important	II. Not urgent but important
III. Urgent but not Important	IV. Neither urgent nor important

MS. Deepa Panakkal's screen

# Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

## Collaborative activities for Student and Faculty Exchange Programme for the year 2021-22

Under the MoU signed with Rajarshee Shahu Science College, Chandur Railway, both the institutes under the aegis of IQAC, had conducted Student and Faculty Exchange Programme (SAFE) for the students of B.Sc. Part I, II and III from 27<sup>th</sup> July 2021 to 28<sup>th</sup> July 2021 with the help of online platforms like Zoom and Google Meet.

SAFE programme had conducted for the subjects Botany, Zoology, Chemistry, Physics and Mathematics which covers the topics as per the academic curriculum. In this programme faculties from both institutes had interacted with the students and shared their knowledge.

The schedule for the online classes were as follows

Time Table for Online Classes for the Students of Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar.						
Date	Day	Class	11.30-12.10PM	12.30-1.10 PM	1.30-2.10 PM	2.30-3.10 PM
27/7/2021	Tuesday	B.Sc. I	CHE(APT)	ZOO(GBS)	BOT(PRS)	PHY(SAW)
		B.Sc. II	BOT(MJK)	CHE(SSP)	PHY(RNB)	MATH(RVK)
		B.Sc. III	ZOO(MPC)	BOT(SSP)	MATH(MSP)	PHY(APP)
28/7/2021	Wednesday	B.Sc. I	PHY(RNB)	CHE(SSP)	ZOO(MPC)	BOT(MJK)
		B.Sc. II	PHY(SAW)	BOT(SSP)	CHE(APT)	MATH(MSP)
		B.Sc. III	MATH(RVK)	ZOO(GBS)	BOT(PRS)	CHE(ADB)

Time Table for Online Classes for the Students of Rajarshee Shahu Science College Chandur Rly.						
Date	Day	Class	11.30-12.10 PM	12.30-1.10 PM	1.30-2.10 PM	2.30-3.10 PM
27/7/2021	Tuesday	B.Sc. I	CHE(KPK)	ZOO(GSP)	BOT(SPK)	PHY(ASW)
		B.Sc. II	BOT(SPK)	CHE(NSP)	PHY(AVA)	MATH(ASB)
		B.Sc. III	ZOO(SNB)	BOT(SVH)	MATH(ASB)	PHY(PBK)
28/7/2021	Wednesday	B.Sc. I	PHY(ASW)	CHE(VMS)	ZOO(PSM)	BOT(SPK)
		B.Sc. II	PHY(AVA)	BOT(SVH)	CHE(NSP)	MATH(PBD)
		B.Sc. III	MATH(PBD)	ZOO(SPT)	BOT(SVH)	CHE(KPK)

  
 Dr. Alka A. Bhive  
 PRINCIPAL  
 Vinayak Vidnyan Mahavidyalaya,  
 Nandgaon Khan, Dist. Amravati

To,  
The Principal,  
Vinayak Vidnyan Mahavidyalaya,  
Nandgaon Khandeshwar.

**Subject:** Seeking permission to organize and conduct "SAFE Programme" under MoU.

Respected Madam,

With reference to above mentioned subject, IQAC of Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar willing to organize and conduct online classes under "Student and Faculty Exchange Programme" with Rajarshee Shahu Science college, Chandur Railway under the MoU signed in between two institutes. This programme will be conducted on virtual platforms (Google Meet and Zoom) from 26<sup>th</sup> July 2021 to 27<sup>th</sup> July 2021.

So, kindly request to you madam, please allow us to organize and conduct Online classes under "Student and Faculty Exchange Programme."

**Thanking You!**

**Date:** 24<sup>th</sup> July 2021  
**Place:** Nandgaon Khandeshwar

Your Faithfully  
  
 Dr. Suchita F. Khodke  
 IQAC Coordinator  
 Vinayak Vidnyan Mahavidyalaya,  
 Nandgaon Khandeshwar  
 Vinayak Vidnyan Mahavidyalaya  
 Nandgaon Kh.

  
 PRINCIPAL  
 Vinayak Vidnyan Mahavidyalaya,  
 Nandgaon Khan, Dist. Amravati

# Vinayak Vidyan Mahavidyalaya, Nandgaon Kh.

**Report of Students and Faculty Exchange Program (SAFE)**  
Between VVM and RSSC (2020-21)  
Department of Botany

Lecture delivered by: Faculty members of VVM For: The students of RSSC

Date	Day	Name of Teacher	Class	Time	Topic Covered	ICT Used	Remark
27.07.2021	Tuesday	Dr. S.P. Khoske	BSc Part I Sem II	1.30 to 2.10 PM	Types of Roots in plants	Laptop and PPT	
27.07.2021	Tuesday	Dr. S.P. Khoske	BSc Part II Sem IV	11.30 to 12.10PM	Cell Division	Laptop and PPT	
27.07.2021	Tuesday	Mr. S.V. Hivarekar	BSc Part III Sem VI	12.30 to 1.10PM	Lac Operon: Structure	Laptop and PPT	
28.07.2021	Wednesday	Dr. S.P. Khoske	BSc Part I Sem II	2.30 to 3.10PM	Modification of Roots in plants	Laptop and PPT	Engaged by Mr. S.V. Hivarekar
28.07.2021	Wednesday	Mr. S.V. Hivarekar	BSc Part II Sem IV	12.30 to 1.10 PM	Morphology of chromosome	Laptop and PPT	
28.07.2021	Wednesday	Mr. S.V. Hivarekar	BSc Part III Sem VI	01.30 to 2.10 PM	Lac Operon: Regulation	Laptop and PPT	

Date: 29.07.2021

Dr. Pratiksha Mahalle, Head of Department, Dept. of Botany, Vinayak Vidyan Mahavidyalaya, Nandgaon Kh.

Dr. Abhijit Bansod, Co-ordinator (Criteria III)

Dr. Sachita Khudke, IQAC Co-ordinator

Dr. Alka A. Bhisre, Principal, Vinayak Vidyan Mahavidyalaya, Nandgaon Kh. Dist. Amravati.

Copy to: 1. Criteria III Co-ordinator.  
2. IQAC Co-ordinator.

**Report of Students and Faculty Exchange Program (SAFE)**  
Between VVM and RSSC (2020-21)  
Department of Botany

Lecture delivered by: Faculty members of RSSC For: The students of VVM

Date	Day	Name of Teacher	Class	Time	Topic Covered	ICT Used	Remark
27.07.2021	Tuesday	Dr. P. K. Kulkarni	BSc Part I Sem II	1.30 to 2.10 PM	Types of roots and modification	Laptop and PPT	
27.07.2021	Tuesday	Dr. M. Chitambar	BSc Part I Sem II	11.30 to 12.10 PM	Real Model: Model of plasma membrane (structure and function)	Laptop and PPT	
27.07.2021	Tuesday	Dr. S. S. Patil	BSc Part I Sem II	12.30 to 1.10 PM	Resistant DNA technology	Laptop and PPT	
28.07.2021	Wednesday	Dr. M. Chitambar	BSc Part I Sem II	01.30 to 1.10 PM	Classification of plants	Laptop and PPT	
28.07.2021	Wednesday	Dr. S. S. Patil	BSc Part I Sem II	12.30 to 1.10 PM	Mechanism of disease	Laptop and PPT	
28.07.2021	Wednesday	Dr. P. K. Kulkarni	BSc Part I Sem II	01.30 to 1.10 PM	Plant tissue culture (Micropropagation)	Laptop and PPT	

Date: 29.07.2021

Dr. Sachita Khudke, Head of Department, Dept. of Botany, Vinayak Vidyan Mahavidyalaya, Nandgaon Kh.

Dr. Abhijit Bansod, Co-ordinator (Criteria III)

Dr. Sachita Khudke, IQAC Co-ordinator

Dr. Alka A. Bhisre, Principal, Vinayak Vidyan Mahavidyalaya, Nandgaon Kh. Dist. Amravati.

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**Report of Students and Faculty Exchange Program (SAFE)**  
Between VVM and RSSC  
Department of Zoology, Vinayak Vidyan Mahavidyalaya, Nandgaon Khandeshwar.

Lecture delivered by: Faculty members of VVM For: The students of RSSC

Date	Day	Name of Teacher	Class	Time	Topic Covered	ICT Used	Remark
27.07.2021	Tuesday	Mr. Subodh Bansod	BSc Part II Sem IV	11.30 to 12.10PM	Experiment to prove DNA as a genetic material	Laptop and PPT	
27.07.2021	Tuesday	Dr. Sagnish Singh Pathore	BSc Part I Sem II	12.30 to 1.10PM	Giant Chromosomes	Laptop and PPT	
28.07.2021	Wednesday	Dr. Pratiksha Mahalle	BSc Part I Sem II	01.30 to 2.10 PM	Regeneration	Laptop and PPT	Engaged by Dr. Pathore
28.07.2021	Wednesday	Dr. Sagnish Singh Pathore	BSc Part II Sem IV	12.30 to 1.10PM	Immunology	Laptop and PPT	

Date: 29.07.2021

Dr. Pratiksha Mahalle, Head of Department, Dept. of Zoology, Vinayak Vidyan Mahavidyalaya, Nandgaon Kh.

Dr. Abhijit Bansod, Co-ordinator (Criteria III)

Dr. Sachita Khudke, IQAC Co-ordinator

Dr. Alka A. Bhisre, Principal, Vinayak Vidyan Mahavidyalaya, Nandgaon Kh. Dist. Amravati.

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**Report of Students and Faculty Exchange Program (SAFE)**  
Between VVM and RSSC  
Department of Zoology, Vinayak Vidyan Mahavidyalaya, Nandgaon Khandeshwar.

Lecture delivered by: Faculty members of RSSC For: The students of VVM

Date	Day	Name of Teacher	Class	Time	Topic Covered	ICT Used	Remark
27.07.2021	Tuesday	Dr. Mahesh Chitambar	BSc Part II Sem IV	11.30 to 12.10 PM	Immunology	Laptop and PPT	
27.07.2021	Tuesday	Dr. G. B. Santape	BSc Part I Sem II	12.30 to 1.10PM	Plasma Membrane	Laptop and PPT	
28.07.2021	Wednesday	Dr. Mahesh Chitambar	BSc Part I Sem II	1.30 to 2.10 PM	Polytene Chromosome	Laptop and PPT	
28.07.2021	Wednesday	Dr. G. B. Santape	BSc Part III Sem VI	12.30 to 1.10PM	DNA Finger Printing	Laptop and PPT	

Date: 29.07.2021

Dr. Pratiksha Mahalle, Head of Department, Dept. of Zoology, Vinayak Vidyan Mahavidyalaya, Nandgaon Kh.

Dr. Abhijit Bansod, Co-ordinator (Criteria III)

Dr. Sachita Khudke, IQAC Co-ordinator

Dr. Alka A. Bhisre, Principal, Vinayak Vidyan Mahavidyalaya, Nandgaon Kh. Dist. Amravati.

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**Report of Students and Faculty Exchange Program (SAFE)**  
Between VVM and RSSC  
Department of Chemistry, Vinayak Vidyan Mahavidyalaya, Nandgaon Khandeshwar.

Lecture delivered by: Faculty members of VVM For: The students of RSSC

Date	Day	Name of Teacher	Class	Time	Topic Covered	ICT Used	Remark
27.07.2021	Tuesday	Dr. Kavita P. Kulkarni	BSc Part I Sem II	11.30 to 12.10 PM	New element solvents	Laptop and PPT	
27.07.2021	Tuesday	Mr. Nilesh S. Patole	BSc Part I Sem II	12.30 to 1.10PM	Carbohydrates	Laptop and PPT	
28.07.2021	Wednesday	Dr. Kavita P. Kulkarni	BSc Part I Sem II	12.30 to 1.10PM	Hydrates	Laptop and PPT	Dr. Sherrak was on leave imposed by Dr. Kulkarni
28.07.2021	Wednesday	Mr. Nilesh S. Patole	BSc Part II Sem IV	01.30 to 2.10 PM	Carbohydrates	Laptop and PPT	
28.07.2021	Wednesday	Dr. Kavita P. Kulkarni	BSc Part II Sem IV	01.30 to 1.10 PM	UV Spectroscopy	Laptop and PPT	

Date: 29.07.2021

Dr. Sachita Khudke, Head of Department, Dept. of Chemistry, Vinayak Vidyan Mahavidyalaya, Nandgaon Kh.

Dr. Abhijit Bansod, Co-ordinator (Criteria III)

Dr. Sachita Khudke, IQAC Co-ordinator

Dr. Alka A. Bhisre, Principal, Vinayak Vidyan Mahavidyalaya, Nandgaon Kh. Dist. Amravati.

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2. IQAC Co-ordinator.

**Report of Students and Faculty Exchange Program (SAFE)**  
Between VVM and RSSC  
Department of Chemistry, Vinayak Vidyan Mahavidyalaya, Nandgaon Khandeshwar.

Lecture delivered by: Faculty members of RSSC For: The students of VVM

Date	Day	Name of Teacher	Class	Time	Topic Covered	ICT Used	Remark
27.07.2021	Tuesday	Dr. Anant S. Wadkar	BSc Part I Sem II	11.30 to 12.10 PM	Particle Accelerator	Laptop and PPT	
27.07.2021	Tuesday	Mr. Ajay V. Ambhore	BSc Part II Sem IV	12.30 to 1.10PM	Diffraction of Light	Laptop and PPT	
28.07.2021	Wednesday	Dr. Anant S. Wadkar	BSc Part I Sem II	11.30 to 12.10 PM	Cyclotron	PPT	
28.07.2021	Wednesday	Mr. Ajay V. Ambhore	BSc Part III Sem VI	01.30 to 2.10 PM	Statistical Mechanics	Laptop and PPT	
28.07.2021	Wednesday	Dr. Prashant Kharat	BSc Part III Sem VI	12.30 to 1.10PM	Crystal Structure	Laptop and PPT	

Date: 29.07.2021

Dr. Pratiksha Mahalle, Head of Department, Dept. of Chemistry, Vinayak Vidyan Mahavidyalaya, Nandgaon Kh.

Dr. Abhijit Bansod, Co-ordinator (Criteria III)

Dr. Sachita Khudke, IQAC Co-ordinator

Dr. Alka A. Bhisre, Principal, Vinayak Vidyan Mahavidyalaya, Nandgaon Kh. Dist. Amravati.

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**Report of Students and Faculty Exchange Program (SAFE)**  
Between VVM and RSSC  
Department of Mathematics, Vinayak Vidyan Mahavidyalaya, Nandgaon Khandeshwar.

Lecture delivered by: Faculty members of RSSC For: The students of VVM

Date	Day	Name of Teacher	Class	Time	Topic Covered	ICT Used	Remark
27.07.2021	Tuesday	Ms. Mamata Palasagar	B.Sc.-III Sem.-VI	1.30pm - 2.10pm	Graph Theory	Used Blackboard & chalk	
27.07.2021	Tuesday	Dr. Rekha Kene	B.Sc.-II Sem.-IV	2.30pm - 3.10pm	Modern Algebra- Ring	Used Blackboard & chalk	
28.07.2021	Wednesday	Dr. Rekha Kene	B.Sc.-III Sem.-VI	11.30am - 12.10pm	Linear Algebra- Linear transformation	Used Blackboard & chalk	
28.07.2021	Wednesday	Ms. Mamata Palasagar	B.Sc.-II Sem.-IV	2.30pm - 3.10pm	Classical Mechanics- Rotation Matrix	Used Blackboard & chalk	

Date: 29.07.2021

Dr. Sachita Khudke, Head of Department, Dept. of Mathematics, Vinayak Vidyan Mahavidyalaya, Nandgaon Kh.

Dr. Abhijit Bansod, Co-ordinator (Criteria III)

Dr. Sachita Khudke, IQAC Co-ordinator

Dr. Alka A. Bhisre, Principal, Vinayak Vidyan Mahavidyalaya, Nandgaon Kh. Dist. Amravati.

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**Report of Students and Faculty Exchange Program (SAFE)**  
Between VVM and RSSC  
Department of Chemistry, Vinayak Vidyan Mahavidyalaya, Nandgaon Khandeshwar.

Lecture delivered by: Faculty members of RSSC For: The students of VVM

Date	Day	Name of Teacher	Class	Time	Topic Covered	ICT Used	Remark
27.07.2021	Tuesday	Dr. A. P. Thakare	BSc Part I Sem II	11.30 to 12.10 PM	Epoxide	Laptop and PPT	
27.07.2021	Tuesday	Dr. S. S. Padhen	BSc Part II Sem IV	12.30 to 1.10PM	Diazonium Salt	Laptop and PPT	
28.07.2021	Wednesday	Dr. S. S. Padhen	BSc Part I Sem II	12.30 to 1.10PM	Phenol, Ether and Epoxide	Laptop and PPT	
28.07.2021	Wednesday	Dr. A. P. Thakare	BSc Part II Sem IV	01.30 to 2.10 PM	Inner Transition series	Laptop and PPT	
28.07.2021	Wednesday	Dr. A. D. Bansod	BSc Part III Sem VI	02.30 to 3.10 PM	Substitution reaction in complexes	Laptop and PPT	

Date: 29.07.2021

Dr. Sachita Khudke, Head of Department, Dept. of Chemistry, Vinayak Vidyan Mahavidyalaya, Nandgaon Kh.

Dr. Abhijit Bansod, Co-ordinator (Criteria III)

Dr. Sachita Khudke, IQAC Co-ordinator

Dr. Alka A. Bhisre, Principal, Vinayak Vidyan Mahavidyalaya, Nandgaon Kh. Dist. Amravati.

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**Report of Students and Faculty Exchange Program (SAFE)**  
Between VVM and RSSC  
Department of Mathematics, Vinayak Vidyan Mahavidyalaya, Nandgaon Khandeshwar.

Lecture delivered by: Faculty members of VVM For: The students of RSSC

Date	Day	Name of Teacher	Class	Time	Topic Covered	ICT Used	Remark
27.07.2021	Tuesday	Dr. Abhijit S. Bansod	B.Sc. III (Sem. VI)	1.30 pm - 2.10 pm	Introduction to Linear Transformation	Laptop and Digital writing pad	
27.07.2021	Tuesday	Dr. Abhijit S. Bansod	B.Sc. III (Sem. VI)	2.30 pm - 3.10 pm	Lagrange's Equation of Motion	Laptop and Digital writing pad	
28.07.2021	Wednesday	Dr. Prithi B. Deshmukh	B.Sc. III (Sem. VI)	11.30 am - 12.10 pm	Vector Space	Laptop and Digital writing pad	
28.07.2021	Wednesday	Dr. Prithi B. Deshmukh	BSc Part II Sem IV	2.30 pm - 3.10 pm	Kernel of Homomorphism	Laptop and Digital writing pad	

Date: 29.07.2021

Dr. Sachita Khudke, Head of Department, Dept. of Mathematics, Vinayak Vidyan Mahavidyalaya, Nandgaon Kh.

Dr. Abhijit Bansod, Co-ordinator (Criteria III)

Dr. Sachita Khudke, IQAC Co-ordinator

Dr. Alka A. Bhisre, Principal, Vinayak Vidyan Mahavidyalaya, Nandgaon Kh. Dist. Amravati.

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2. IQAC Co-ordinator.

**Report of Students and Faculty Exchange Program (SAFE)**  
Between VVM and RSSC  
Department of Physics, Vinayak Vidyan Mahavidyalaya, Nandgaon Khandeshwar.

Lecture delivered by: Faculty members of RSSC For: The students of VVM

Date	Day	Name of Teacher	Class	Time	Topic Covered	ICT Used	Remark
27.07.2021	Tuesday	Dr. A. P. Pichalkar	BSc Part III Sem VI	11.30 to 12.10 PM	Superconductors	Laptop and PPT	
27.07.2021	Tuesday	Dr. R. N. Bhagat	BSc Part II Sem IV	12.30 to 1.10PM	Optical Fibre	Mobile Camera	
28.07.2021	Wednesday	Dr. R. N. Bhagat	BSc Part II Sem IV	01.30 to 2.10 PM	Optical Fibre	Laptop and PPT	
28.07.2021	Wednesday	Dr. S. A. Wani	BSc Part III Sem VI	02.30 to 3.10 PM	The Laws of Thermodynamics	Laptop and PPT	

Date: 29.07.2021

Dr. Anant S. Wadkar, Head of Department, Dept. of Physics, Vinayak Vidyan Mahavidyalaya, Nandgaon Kh.

Dr. Abhijit Bansod, Co-ordinator (Criteria III)

Dr. Sachita Khudke, IQAC Co-ordinator

Dr. Alka A. Bhisre, Principal, Vinayak Vidyan Mahavidyalaya, Nandgaon Kh. Dist. Amravati.

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**Report of Students and Faculty Exchange Program (SAFE)**  
Between VVM and RSSC  
Department of Mathematics, Vinayak Vidyan Mahavidyalaya, Nandgaon Khandeshwar.

Lecture delivered by: Faculty members of VVM For: The students of RSSC

Date	Day	Name of Teacher	Class	Time	Topic Covered	ICT Used	Remark
27.07.2021	Tuesday	Dr. Abhijit S. Bansod	B.Sc. III (Sem. VI)	1.30 pm - 2.10 pm	Introduction to Linear Transformation	Laptop and Digital writing pad	
27.07.2021	Tuesday	Dr. Abhijit S. Bansod	B.Sc. III (Sem. VI)	2.30 pm - 3.10 pm	Lagrange's Equation of Motion	Laptop and Digital writing pad	
28.07.2021	Wednesday	Dr. Prithi B. Deshmukh	B.Sc. III (Sem. VI)	11.30 am - 12.10 pm	Vector Space	Laptop and Digital writing pad	
28.07.2021	Wednesday	Dr. Prithi B. Deshmukh	BSc Part II Sem IV	2.30 pm - 3.10 pm	Kernel of Homomorphism	Laptop and Digital writing pad	

Date: 29.07.2021

Dr. Sachita Khudke, Head of Department, Dept. of Mathematics, Vinayak Vidyan Mahavidyalaya, Nandgaon Kh.

Dr. Abhijit Bansod, Co-ordinator (Criteria III)

Dr. Sachita Khudke, IQAC Co-ordinator

Dr. Alka A. Bhisre, Principal, Vinayak Vidyan Mahavidyalaya, Nandgaon Kh. Dist. Amravati.

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2. IQAC Co-ordinator.

**Report of Students and Faculty Exchange Program (SAFE)**  
Between VVM and RSSC  
Department of Mathematics, Vinayak Vidyan Mahavidyalaya, Nandgaon Khandeshwar.

Lecture delivered by: Faculty members of VVM For: The students of RSSC

Date	Day	Name of Teacher	Class	Time	Topic Covered	ICT Used	Remark
27.07.2021	Tuesday	Dr. Abhijit S. Bansod	B.Sc. III (Sem. VI)	1.30 pm - 2.10 pm	Introduction to Linear Transformation	Laptop and Digital writing pad	
27.07.2021	Tuesday	Dr. Abhijit S. Bansod	B.Sc. III (Sem. VI)	2.30 pm - 3.10 pm	Lagrange's Equation of Motion	Laptop and Digital writing pad	
28.07.2021	Wednesday	Dr. Prithi B. Deshmukh	B.Sc. III (Sem. VI)	11.30 am - 12.10 pm	Vector Space	Laptop and Digital writing pad	
28.07.2021	Wednesday	Dr. Prithi B. Deshmukh	BSc Part II Sem IV	2.30 pm - 3.10 pm	Kernel of Homomorphism	Laptop and Digital writing pad	

Date: 29.07.2021

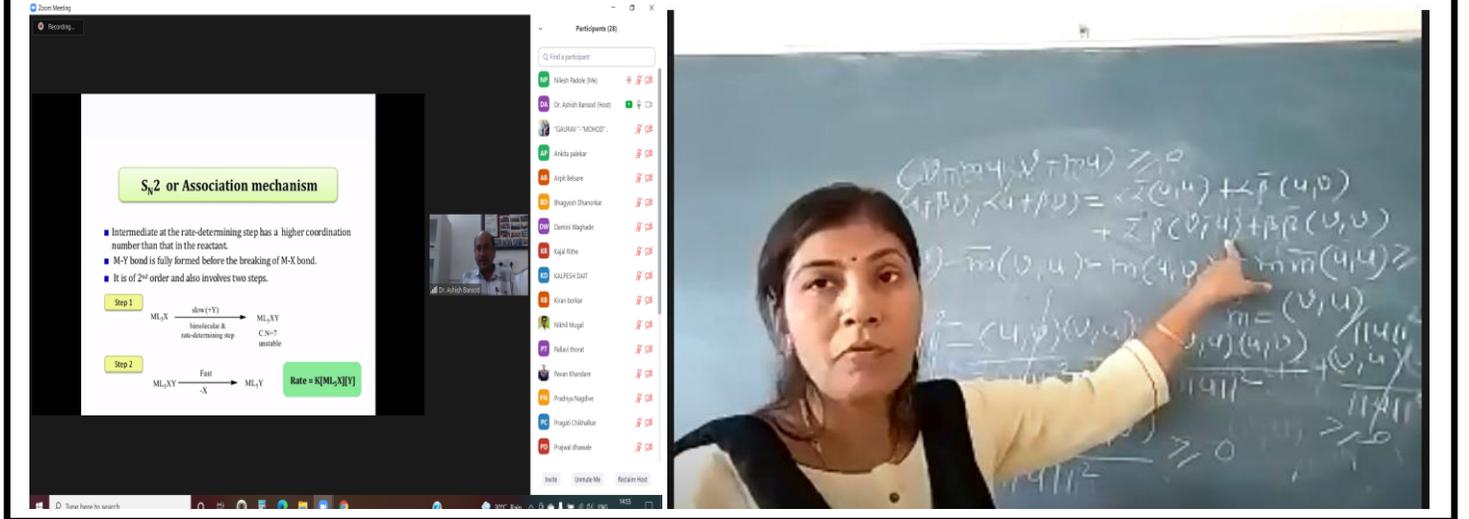
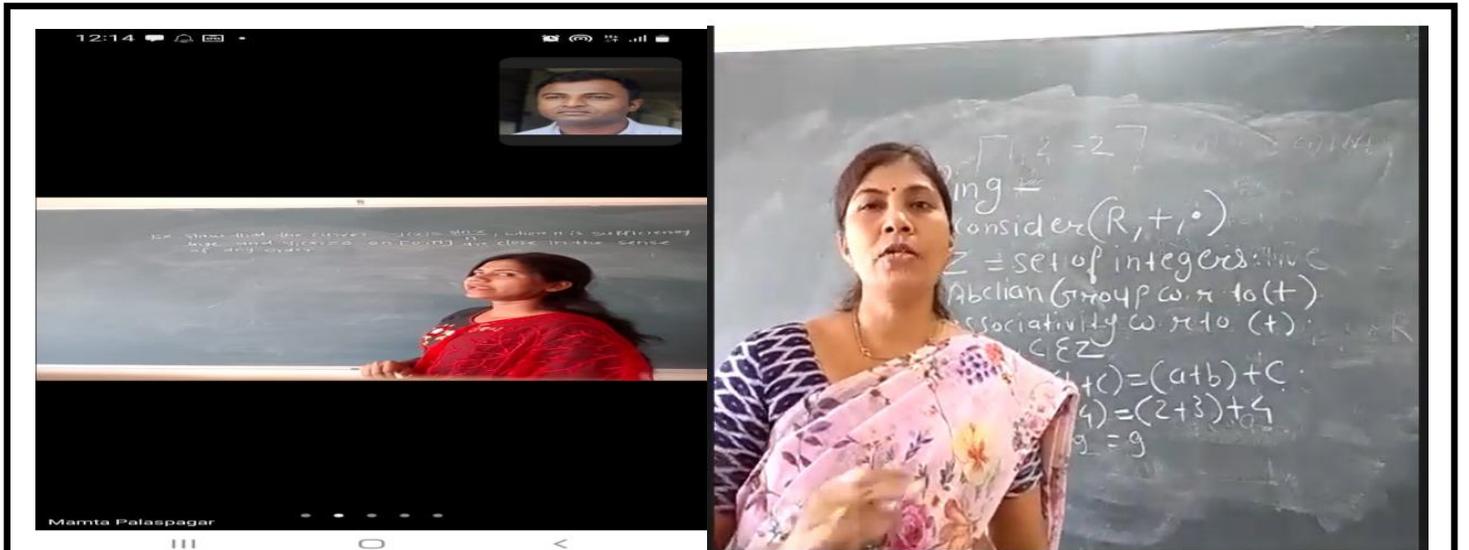
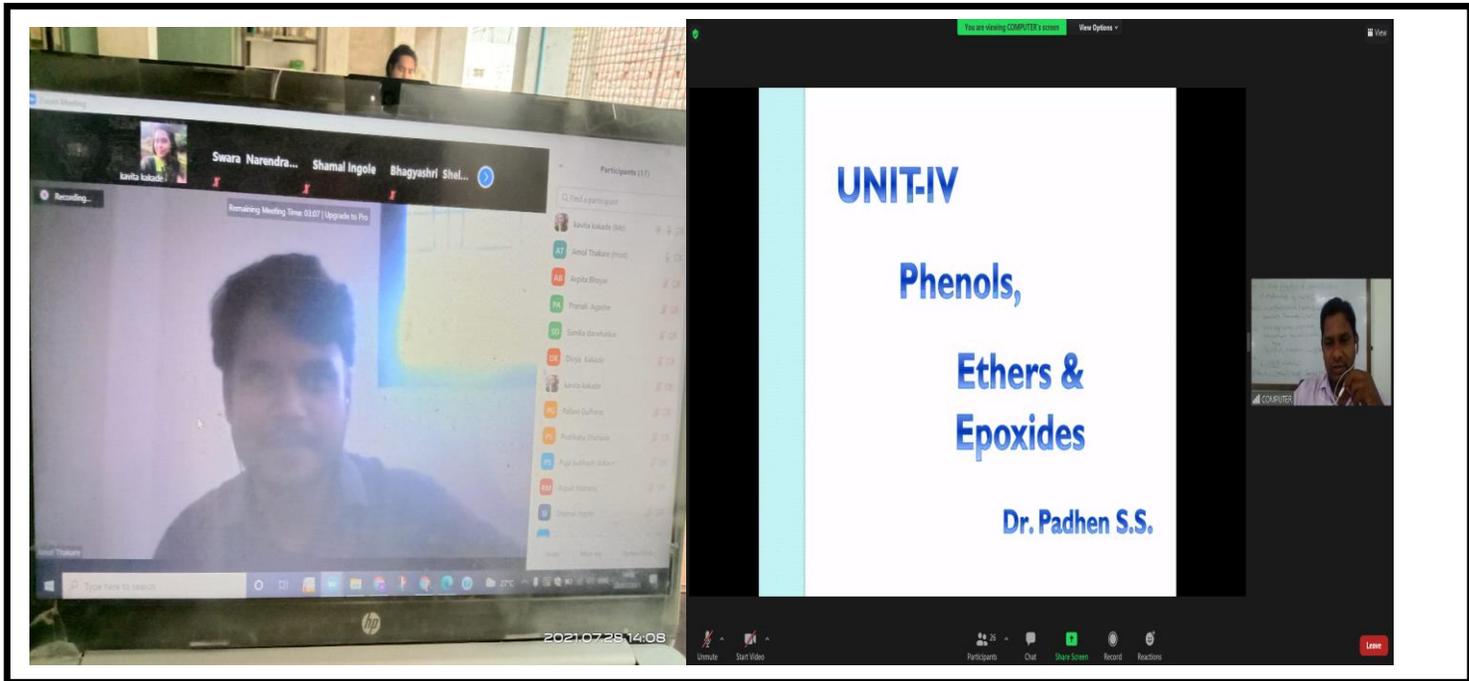
Dr. Sachita Khudke, Head of Department, Dept. of Mathematics, Vinayak Vidyan Mahavidyalaya, Nandgaon Kh.

Dr. Abhijit Bansod, Co-ordinator (Criteria III)

Dr. Sachita Khudke, IQAC Co-ordinator

Dr. Alka A. Bhisre, Principal, Vinayak Vidyan Mahavidyalaya, Nandgaon Kh. Dist. Amravati.

Copy to: 1. Criteria III Co-ordinator.  
2. IQAC Co-ordinator.



## Collaborative activities for Student and Faculty Exchange Programme for the year 2021-22

Under the MoU signed with Rajarshee Shahu Science College, Chandur Railway, both the institutes under the aegis of IQAC, had conducted Student and Faculty Exchange Programme (SAFE) for the students of B.Sc. Part I, II and III from 14th May 2022 to 17th May 2022 with the help of online platforms like Zoom and Google Meet.

SAFE programme had conducted for the subjects Botany, Zoology, Chemistry, Physics and Mathematics which covers the topics as per the academic curriculum. In this programme faculties from both institutes had interacted with the students and shared their knowledge

The schedule for the online classes were as follows

Time Table for Online Classes for the Students of Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar.

Date	Day	Class	9.30-10.10 AM	10.20-11AM.	11.10-11.50 AM	12.00-12.40 PM
14/05/2022	Saturday	B.Sc. I	CHE(APT)	ZOO(GBS)	BOT(PRS)	PHY(SAW)
		B.Sc. II	BOT(MJK)	CHE(SSP)	PHY(RNB)	MATH(RVK)
		B.Sc. III	ZOO(MPC)	BOT(SSP)	MATH(MSP)	PHY(APP)
17/05/2022	Tuesday	B.Sc. I	PHY(RNB)	CHE(SSP)	ZOO(MPC)	BOT(MJK)
		B.Sc. II	PHY(SAW)	BOT(SSP)	CHE(APT)	MATH(MSP)
		B.Sc. III	MATH(RVK)	ZOO(GBS)	BOT(PRS)	CHE(ADB)

Time Table for Online Classes for the Students of Rajarshee Shahu Science College Chandur Rly.

Date	Day	Class	9.30-10.10 AM	10.20-11AM.	11.10-11.50 AM	12.00-12.40 PM
14/05/2022	Saturday	B.Sc. I	CHE(KPK)	ZOO(GSP)	BOT(SPK)	PHY(ASW)
		B.Sc. II	BOT(SPK)	CHE(NSP)	PHY(AVA)	MATH(ASB)
		B.Sc. III	ZOO(SNB)	BOT(SVH)	MATH(ASB)	PHY(PBK)
17/05/2022	Tuesday	B.Sc. I	PHY(ASW)	CHE(VMS)	ZOO(PSM)	BOT(SPK)
		B.Sc. II	PHY(AVA)	BOT(SVH)	CHE(NSP)	MATH(PBD)
		B.Sc. III	MATH(PBD)	ZOO(SPT)	BOT(SVH)	CHE(KPK)

  
 Dr. Alka A. Bhise  
 PRINCIPAL  
 Vinayak Vidnyan Mahavidyalaya,  
 Nandgaon Khan, Dist. Amravati

To,  
The Principal,  
Vinayak Vidnyan Mahavidyalaya,  
Nandgaon Khandeshwar.

**Subject:** Seeking permission to organize and conduct "SAFE Programme" under MoU.

Respected Madam,

With reference to above mentioned subject, IQAC of Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar willing to organize and conduct online classes under "Student and Faculty Exchange Programme" with Rajarshee Shahu Science college, Chandur Railway under the MoU signed in between two institutes. This programme will be conducted on virtual platforms (Google Meet and Zoom) from 14<sup>th</sup> May 2022 to 17<sup>th</sup> May 2022.

So, kindly request to you madam, please allow us to organize and conduct Online classes under "Student and Faculty Exchange Programme".

**Thanking You!**

Date: 12<sup>th</sup> May 2022  
Place: Nandgaon Khandeshwar

Your Faithfully  
  
 Dr. Suchita P. Khodke  
 IQAC Coordinator  
 Vinayak Vidnyan Mahavidyalaya,  
 Nandgaon Khan, Dist. Amravati

  
 PRINCIPAL  
 Vinayak Vidnyan Mahavidyalaya,  
 Nandgaon Khan, Dist. Amravati

# Vinayak Vidyan Mahavidyalaya, Nandgaon Kh.

Report of Students and Faculty Exchange Program (SAFE) Between VVM and RSSC  
Department of Botany  
Lecture delivered by: Faculty members of VVM For: The students of RSSC

Date	Day	Name of Teacher	Class	Time	Topic Covered	ICT Used	Remark
14.05.2022	Tuesday	Dr. S.P. Khote	BSc Part I Sem II	11:10-11:30am	Types of roots in plants	Laptop and PPT	
14.05.2022	Tuesday	Dr. S.P. Khote	BSc Part I Sem IV	9:30-10:30am	Cell Division	Laptop and PPT	
14.05.2022	Tuesday	Mr. S.V. Mawale	BSc Part II Sem IV	10:20-11:30am	Lac Operon Structure	Laptop and PPT	
17.05.2022	Wednesday	Dr. S.P. Khote	BSc Part I Sem II	11:10-12:00pm	Modification of roots in plants	Laptop and PPT	
17.05.2022	Wednesday	Mr. S.V. Mawale	BSc Part I Sem IV	10:20-11:30am	Morphology of chromosome	Laptop and PPT	
17.05.2022	Wednesday	Mr. S.V. Mawale	BSc Part II Sem IV	11:10-11:30am	Lac Operon Regulation	Laptop and PPT	

Date: 17.05.2022  
 Dr. Sushil Khote, Head of Department  
 Dr. Abhijit Bansod, Co-ordinator (Criteria III)  
 Dr. Sushil Khote, I.Q.A.C. Co-ordinator  
 Dr. Alka A. Bhisre, Principal

Report of Students and Faculty Exchange Program (SAFE) Between VVM and RSSC  
Department of Botany  
Lecture delivered by: Faculty members of RSSC For: The students of VVM

Date	Day	Name of Teacher	Class	Time	Topic Covered	ICT Used	Remark
14.05.2022	Tuesday	Dr. S.P. Khote	BSc Part I Sem II	11:10-11:30am	Specialized root modification	Laptop and PPT	
14.05.2022	Tuesday	Dr. S.P. Khote	BSc Part I Sem IV	9:30-10:30am	Plant tissue: Meristematic tissue and vascular tissue	Laptop and PPT	
14.05.2022	Tuesday	Mr. S.V. Mawale	BSc Part II Sem IV	10:20-11:30am	Regulation of lac operon	Laptop and PPT	
17.05.2022	Wednesday	Dr. S.P. Khote	BSc Part I Sem II	11:10-12:00pm	Structure of plant	Laptop and PPT	
17.05.2022	Wednesday	Mr. S.V. Mawale	BSc Part I Sem IV	10:20-11:30am	Structure of plant	Laptop and PPT	
17.05.2022	Wednesday	Mr. S.V. Mawale	BSc Part II Sem IV	11:10-11:30am	Structure of plant	Laptop and PPT	

Date: 17.05.2022  
 Dr. Sushil Khote, Head of Department  
 Dr. Abhijit Bansod, Co-ordinator (Criteria III)  
 Dr. Sushil Khote, I.Q.A.C. Co-ordinator  
 Dr. Alka A. Bhisre, Principal

Report of Students and Faculty Exchange Program (SAFE) Between VVM and RSSC  
Department of Zoology, Vinayak Vidyan Mahavidyalaya, Nandgaon Khandeshwar  
Lecture delivered by: Faculty members of VVM For: The students of RSSC

Date	Day	Name of Teacher	Class	Time	Topic Covered	ICT Used	Remark
14.05.2022	Tuesday	Dr. Sushil Khote	BSc Part I Sem IV	9:30-10:30am	Department of Zoology	Laptop and PPT	
14.05.2022	Tuesday	Dr. Sushil Khote	BSc Part I Sem IV	9:30-10:30am	Department of Zoology	Laptop and PPT	
17.05.2022	Wednesday	Dr. Sushil Khote	BSc Part I Sem IV	9:30-10:30am	Department of Zoology	Laptop and PPT	
17.05.2022	Wednesday	Dr. Sushil Khote	BSc Part I Sem IV	9:30-10:30am	Department of Zoology	Laptop and PPT	

Date: 17.05.2022  
 Dr. Sushil Khote, Head of Department  
 Dr. Abhijit Bansod, Co-ordinator (Criteria III)  
 Dr. Sushil Khote, I.Q.A.C. Co-ordinator  
 Dr. Alka A. Bhisre, Principal

Report of Students and Faculty Exchange Program (SAFE) Between VVM and RSSC  
Department of Zoology, Vinayak Vidyan Mahavidyalaya, Nandgaon Khandeshwar  
Lecture delivered by: Faculty members of RSSC For: The students of VVM

Date	Day	Name of Teacher	Class	Time	Topic Covered	ICT Used	Remark
14.05.2022	Saturday	Dr. Mahesh Chikale	BSc Part I Sem IV	9:30-10:30	Invertebrate	Laptop and PPT	
14.05.2022	Saturday	Dr. G.B. Sontare	BSc Part I Sem II	10:30-11:00	Plasma Membrane	Laptop and PPT	
17.05.2022	Tuesday	Dr. Mahesh Chikale	BSc Part I Sem II	11:10-11:30	Polysome Chromosome	Laptop and PPT	
17.05.2022	Tuesday	Dr. G.B. Sontare	BSc Part I Sem II	10:30-11:00	DNA Finger Printing	Laptop and PPT	

Date: 17.05.2022  
 Dr. Prabhakar Mahale, Head of Department  
 Dr. Abhijit Bansod, Co-ordinator (Criteria III)  
 Dr. Prabhakar Mahale, I.Q.A.C. Co-ordinator  
 Dr. Alka A. Bhisre, Principal

Report of Students and Faculty Exchange Program (SAFE) Between VVM and RSSC  
Department of Chemistry, Vinayak Vidyan Mahavidyalaya, Nandgaon Khandeshwar  
Lecture delivered by: Faculty members of VVM For: The students of RSSC

Date	Day	Name of Teacher	Class	Time	Topic Covered	ICT Used	Remark
14.05.2022	Saturday	Dr. Sushil Khote	BSc Part I Sem II	9:30-10:30 AM	Chemical Equilibrium	Laptop and PPT	
14.05.2022	Saturday	Mr. Mahesh S. Patil	BSc Part I Sem IV	10:30-11:00 AM	Atomic Structure Compound	Laptop and PPT	
17.05.2022	Tuesday	Dr. Vinod M. Shinde	BSc Part I Sem II	11:10-11:30 AM	Adsorption	Laptop and PPT	
17.05.2022	Tuesday	Mr. Mahesh S. Patil	BSc Part I Sem IV	11:10-11:30 AM	Atomic Structure Compound	Laptop and PPT	
17.05.2022	Tuesday	Dr. Sushil Khote	BSc Part I Sem II	10:30-11:00 AM	Inorganic Polymer	Laptop and PPT	

Date: 17.05.2022  
 Dr. Sushil Khote, Head of Department  
 Dr. Abhijit Bansod, Co-ordinator (Criteria III)  
 Dr. Sushil Khote, I.Q.A.C. Co-ordinator  
 Dr. Alka A. Bhisre, Principal

Report of Students and Faculty Exchange Program (SAFE) Between VVM and RSSC  
Department of Chemistry, Vinayak Vidyan Mahavidyalaya, Nandgaon Khandeshwar  
Lecture delivered by: Faculty members of RSSC For: The students of VVM

Date	Day	Name of Teacher	Class	Time	Topic Covered	ICT Used	Remark
14.05.2022	Saturday	Dr. A.P. Phule	BSc Part I Sem II	9:30-10:30 AM	Isomers	Laptop and PPT	
14.05.2022	Saturday	Dr. S.S. Patil	BSc Part I Sem IV	10:30-11:00 AM	Solid State	Laptop and PPT	
17.05.2022	Tuesday	Dr. A.P. Phule	BSc Part I Sem II	9:30-10:30 AM	Phenol and Ether	Laptop and PPT	
17.05.2022	Tuesday	Dr. A.P. Phule	BSc Part I Sem IV	11:30-12:30 AM	Nightshade	Laptop and PPT	
17.05.2022	Tuesday	Dr. A.D. Bapat	BSc Part I Sem II	10:30-11:00 AM	Kinetic Aspects of metal complex	Laptop and PPT	

Date: 17.05.2022  
 Dr. Prabhakar Mahale, Head of Department  
 Dr. Abhijit Bansod, Co-ordinator (Criteria III)  
 Dr. Prabhakar Mahale, I.Q.A.C. Co-ordinator  
 Dr. Alka A. Bhisre, Principal

Report of Students and Faculty Exchange Program (SAFE) Between VVM and RSSC  
Department of Physics, Vinayak Vidyan Mahavidyalaya, Nandgaon Khandeshwar  
Lecture delivered by: Faculty members of VVM For: The students of RSSC

Date	Day	Name of Teacher	Class	Time	Topic Covered	ICT Used	Remark
14.05.2022	Saturday	Dr. A. S. Wadkar	BSc Part I Sem II	12:00 to 12:40PM	Particle Accelerator	Laptop and PPT	
14.05.2022	Saturday	Mr. A. V. Ambhure	BSc Part II Sem IV	11:10 to 11:50 AM	Diffraction of Light	Mobile Camera	
14.05.2022	Saturday	Dr. P. B. Kharat	BSc Part III Sem VI	12:00 to 12:40PM	Crystal Structure	Laptop and PPT	
17.05.2022	Tuesday	Dr. A. S. Wadkar	BSc Part I Sem II	9:30 to 10:10 AM	Cyclotron	Mobile Camera	
17.05.2022	Tuesday	Mr. A. V. Ambhure	BSc Part II Sem IV	9:30 to 10:10 AM	Diffraction of Light	Laptop and PPT	

Date: 17.05.2022  
 Dr. Anant S. Wadkar, Head of Department  
 Dr. Abhijit Bansod, Co-ordinator (Criteria III)  
 Dr. Sushil Khote, I.Q.A.C. Co-ordinator  
 Dr. Alka A. Bhisre, Principal

Report of Students and Faculty Exchange Program (SAFE) Between VVM and RSSC  
Department of Physics, Vinayak Vidyan Mahavidyalaya, Nandgaon Khandeshwar  
Lecture delivered by: Faculty members of VVM For: The students of RSSC

Date	Day	Name of Teacher	Class	Time	Topic Covered	ICT Used	Remark
14.05.2022	Saturday	Dr. A. S. Wadkar	BSc Part I Sem II	12:00 to 12:40PM	Particle Accelerator	Laptop and PPT	
14.05.2022	Saturday	Mr. A. V. Ambhure	BSc Part II Sem IV	11:10 to 11:50 AM	Diffraction of Light	Mobile Camera	
14.05.2022	Saturday	Dr. P. B. Kharat	BSc Part III Sem VI	12:00 to 12:40PM	Crystal Structure	Laptop and PPT	
17.05.2022	Tuesday	Dr. A. S. Wadkar	BSc Part I Sem II	9:30 to 10:10 AM	Cyclotron	Mobile Camera	
17.05.2022	Tuesday	Mr. A. V. Ambhure	BSc Part II Sem IV	9:30 to 10:10 AM	Diffraction of Light	Laptop and PPT	

Date: 17.05.2022  
 Dr. Anant S. Wadkar, Head of Department  
 Dr. Abhijit Bansod, Co-ordinator (Criteria III)  
 Dr. Sushil Khote, I.Q.A.C. Co-ordinator  
 Dr. Alka A. Bhisre, Principal

Report of Students and Faculty Exchange Program (SAFE) Between VVM and RSSC  
Department of Mathematics, Vinayak Vidyan Mahavidyalaya, Nandgaon Khandeshwar  
Lecture delivered by: Faculty members of VVM For: The students of RSSC

Date	Day	Name of Teacher	Class	Time	Topic Covered	ICT Used	Remark
14.05.2022	Saturday	Dr. Abhijit S. Bansod	B.Sc.-III (Sem.-VI)	11:10 am - 11:50 am	Introduction to Linear Transformation	Laptop and Digital writing pad	
14.05.2022	Saturday	Dr. Abhijit S. Bansod	B.Sc.-II (Sem.-IV)	12:00 pm - 12:40 pm	Lagrange's Equation of Motion	Laptop and Digital writing pad	
17.05.2022	Tuesday	Dr. Priti B. Deshmukh	B.Sc.-III (Sem.-VI)	11:10 am - 11:50 am	Vector Space	Laptop and Digital writing pad	
17.05.2022	Tuesday	Dr. Priti B. Deshmukh	BSc Part II Sem IV	12:00 pm - 12:40 pm	Kernel of Homomorphism	Laptop and Digital writing pad	

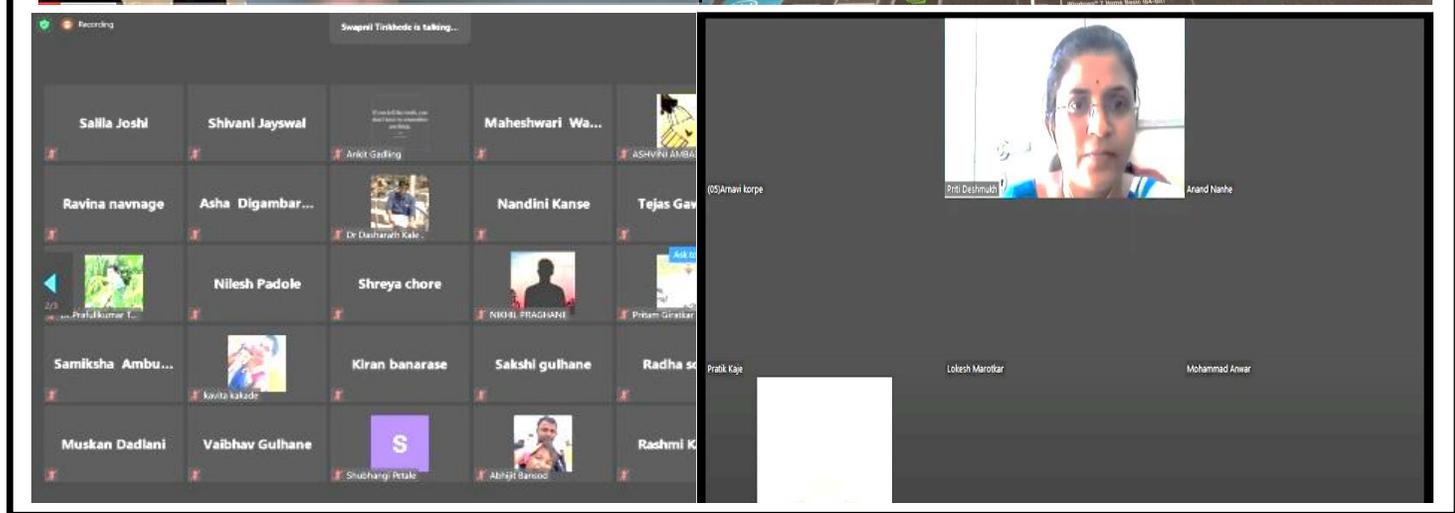
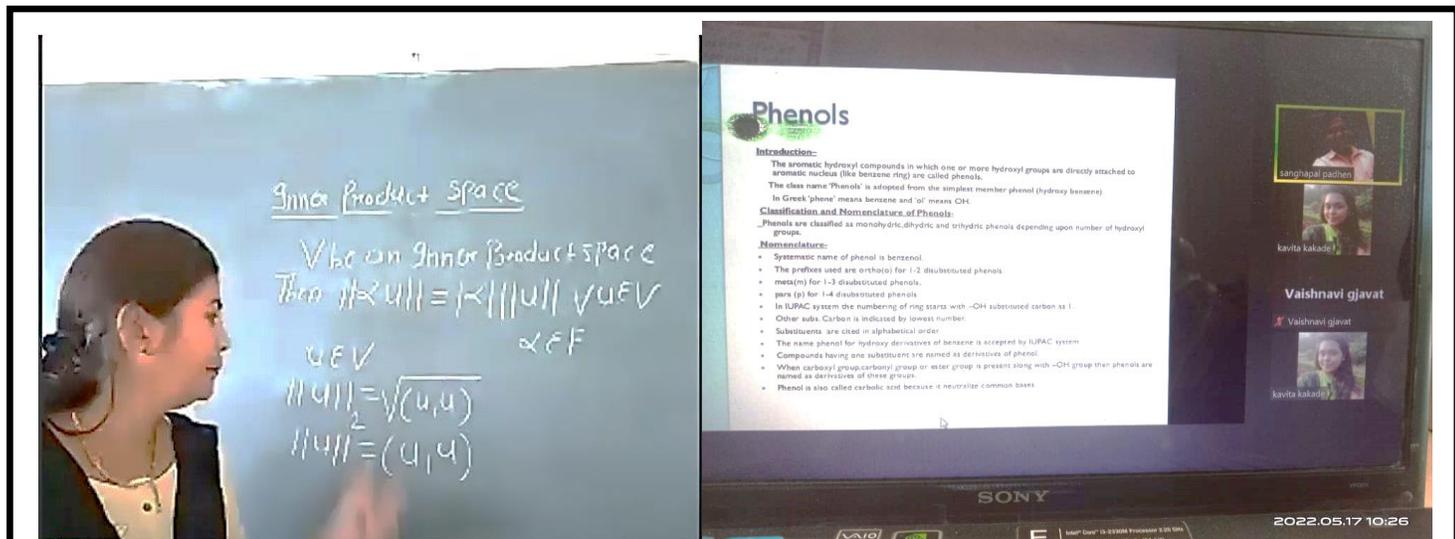
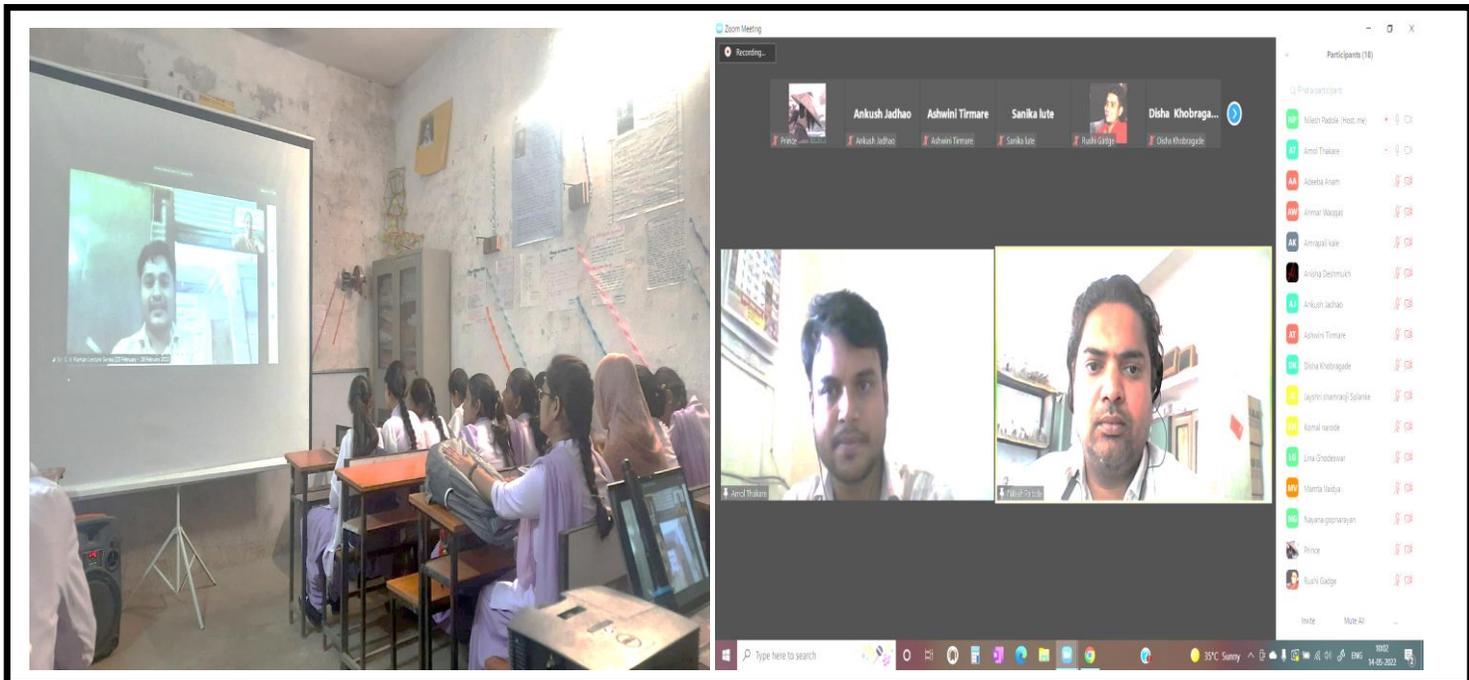
Date: 17.05.2022  
 Dr. Priti Deshmukh, Head of Department  
 Dr. Abhijit Bansod, Co-ordinator (Criteria III)  
 Dr. Sushil Khote, I.Q.A.C. Co-ordinator  
 Dr. Alka A. Bhisre, Principal

Report of Students and Faculty Exchange Program (SAFE) Between VVM and RSSC  
Department of Mathematics, Vinayak Vidyan Mahavidyalaya, Nandgaon Khandeshwar  
Lecture delivered by: Faculty members of RSSC For: The students of VVM

Date	Day	Name of Teacher	Class	Time	Topic Covered	ICT Used	Remark
14.05.2022	Saturday	Mr. Mamata Patil	B.Sc.-III Sem.-VI	11:10 am - 11:50 am	Graph Theory	Used Blackboard & chalk	
14.05.2022	Saturday	Dr. Rekha Kene	B.Sc.-II Sem.-IV	12:00 pm - 12:40 pm	Modern Algebra: Ring	Used Blackboard & chalk	
17.05.2022	Tuesday	Dr. Rekha Kene	B.Sc.-III Sem.-VI	11:10 am - 11:50 am	Linear Algebra: Linear transformation	Used Blackboard & chalk	
17.05.2022	Tuesday	Mr. Mamata Patil	B.Sc.-II Sem.-IV	12:00 pm - 12:40 pm	Classical Mechanics: Rotation Matrix	Used Blackboard & chalk	

Date: 17.05.2022  
 Dr. Priti Deshmukh, Head of Department  
 Dr. Abhijit Bansod, Co-ordinator (Criteria III)  
 Dr. Sushil Khote, I.Q.A.C. Co-ordinator  
 Dr. Alka A. Bhisre, Principal

# Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.





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**2. Activities Under Research Collaborations**

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3. Collaborative research work with **Dr. Vijay G. Mete**, Department of Mathematics, R.D.I.K. and K.D. College, Badnera-Amravati.
4. Collaborative research work with **Dr. K. M. Jadhav**, Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
5. Collaborative research work with **Dr. S. G. Onkar**, Department of Physics, Adarsha Science, Jairamdas Bhagchand Arts and Birla Commerce Mahavidyalaya, Dhamangaon Rly.
6. Collaborative research work with **Dr. S. B. Somwanshi**, Research Scholar, Department of Chemistry, Dr. B. A. M. University, Aurangabad, Maharashtra, 431004 India.
7. Collaborative research work with **Dr. S. B. Somwanshi**, Research Scholar, School of Materials Engineering, Purdue University, West Lafayette, IN 47907, U.S.
- **IV. Collaboratives activities for Research during the year 2020-21..... 10-11**
8. Collaborative research work with **Dr. Rekha C. Maggirwar**, Department of Botany, Shri Shivaji Science College, Amravati.
9. Collaborative research work with **Dr. Mamta Chandrakar**, Department of Zoology, Bajaj College of Science, Wardha.
10. Collaborative research work with **Dr. Vijay G. Mete**, Department of Mathematics, R.D.I.K. and K.D. College, Badnera-Amravati.
11. Collaborative research work with **Dr. K. M. Jadhav**, Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

- **V. Collaboratives activities for Research during the year 2021-22.....** **12-13**
12. Collaborative research work with **Dr. Mamta Chandrakar**, Department of Zoology, Bajaj College of Science, Wardha.
13. Collaborative research work with **Dr. Vijay G. Mete**, Department of Mathematics, R.D.I.K. and K.D. College, Badnera-Amravati.
14. Collaborative research work with **Dr. K. M. Jadhav**, Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
15. Collaborative research work with **Dr. S. B. Somvanshi**, Research Scholar, School of Materials Engineering, Purdue University, West Lafayette, IN 47907, United States.
- **VI. Certificates of Recognition.....** **14-18**

**I. Collaborative activities for research, Faculty exchange, Student exchange/  
internship in the year 2017 – 2018**

**Collaborative Publication of Dr. Suchita Khodke with Dr. Rekha C. Maggirwar**

<b>Sr No.</b>	<b>Authors</b>	<b>Paper Details (Title, Journal, issue, pages etc.)</b>	<b>Year of Publication</b>	<b>Link to Paper</b>
<b>1</b>	R. C. Maggirwar G.B. Hedawoo, <b>S.P. Khodke</b> , P. B. Bobade	International journal of researches in biosciences, agriculture, and technology, (2), vol-v, ISSN No. 2347-517X (Online)	<b>July 2017</b>	<a href="https://ijrbat.in/upload_papers/02102017064624204.pdf">https://ijrbat.in/upload_papers/02102017064624204.pdf</a>
<b>2</b>	Maggirwar RC, <b>Khodke SP</b> , Deshmukh SB Malokar SG	Int. J. of Life Sciences, Special Issue, A8  , ISSN: 2320-7817	<b>2017</b>	<a href="#">RCMIJLSsep2017 (6).pdf</a>

**II. Collaborative activities for research, Faculty exchange, Student exchange/ internship in the year 2018 – 2019**

**Collaborative Publication of Dr. Suchita Khodke with Dr. Rekha C. Maggirwar**

<b>Sr No.</b>	<b>Authors</b>	<b>Paper Details (Title, Journal, issue, pages etc.)</b>	<b>Year of Publication</b>	<b>Link to Paper</b>
1.	P. W. Deotare, <b>S. P. Khodke</b> , R. C. Maggirwar, S. K. Kharwade	An International Research Journal in Botany, Volume 01, Issue 06,	<b>2019</b>	<a href="#">EBSCOhost   147538592   Arbuscular Mycorrhizal and Endophytic (DSE) association in the dominant grasses of Melghat Forest (Phase -II), India.</a>
2	P.W. Deotare, <b>S.P. Khodke</b> , R.C. Maggirwar S.K. Kharwade	Journal of Plant Science and Research, 36 (1-2) 211-224,	<b>2020</b>	<a href="http://olddrji.lbp.world/JournalVolumeDetails.aspx?jid=2581-589X&amp;vol=Volume%20:%201%20Issue%20:%206,%20March,%202019&amp;volid=6#">http://olddrji.lbp.world/JournalVolumeDetails.aspx?jid=2581-589X&amp;vol=Volume%20:%201%20Issue%20:%206,%20March,%202019&amp;volid=6#</a>

## III. Collaborative activities for research, Faculty exchange, Student exchange/ internship in the year 2019 – 2020

### Collaborative Publication of Dr. Abhijit Bansod with Dr. Vinayak G. Mete

Sr No.	Authors	Paper Details (Title, Journal, issue, pages etc)	Year of Publication	Link to Paper
1.	V. G. Mete, <b>A. S. Bansod</b> P. B. Murade2	AEGAEUM JOURNAL, ISSN NO: 0776-3808, Volume 8, Issue 3, 2020, Page No. 992-1005	<b>March 2020</b>	<a href="https://www.researchgate.net/publication/340162485_Bianchi_Types_Cosmological_Models_with_Cold_Dark_Matter_and_Anisotropic_Dark_Energy_in_Saez-Ballester_Theory_of_Gravitation">https://www.researchgate.net/publication/340162485_Bianchi_Types_Cosmological_Models_with_Cold_Dark_Matter_and_Anisotropic_Dark_Energy_in_Saez-Ballester_Theory_of_Gravitation</a>

### Collaborative Publication of Dr. Prashant Kharat with Dr. K. M. Jadhav

Sr No	Authors	Paper Details (Title, Journal, issue, pages etc)	Year of Publication	Link to Paper
<u>1.</u>	Dhananjay N. Bhojar, Sandeep B. Somvanshi, <b>Prashant B. Kharat</b> , A. A. Pandit, K. M. Jadhav	Structural, infrared, magnetic and ferroelectric properties of Sr <sub>0.5</sub> Ba <sub>0.5</sub> Ti <sub>1-x</sub> FexO <sub>3</sub> nanoceramics: Modifications via trivalent Fe ion doping. Physic B: Condensed Matter, Elsevier <a href="#">Volume 581</a> , 15 March 2020, 411944.	March 2020	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0921452619308245">https://www.sciencedirect.com/science/article/abs/pii/S0921452619308245</a>
<u>2.</u>	Mangesh V. Khedkar, Swapnil A. Jadhav, Sandeep B. Somvanshi, <b>Prashant B. Kharat</b> , K. M. Jadhav	Physicochemical properties of ambient pressure dried surface modified silica aerogels: effect of pH variation SN Applied Sciences, Springer Nature Article number: 696 (2020)	March 2020	<a href="https://link.springer.com/article/10.1007/s42452-020-2463-3">https://link.springer.com/article/10.1007/s42452-020-2463-3</a>
<u>3.</u>	Sandeep B. Somvanshi, <b>Prashant B. Kharat</b> , Mangesh V. Khedkar, K. M. Jadhav	Hydrophobic to hydrophilic surface transformation of nano-scale zinc ferrite via oleic acid coating: Magnetic hyperthermia study towards biomedical applications Ceramics International, Elsevier <a href="#">Volume 46, Issue 6</a> , 15 April 2020, Pages 7642-7653	April 2020	<a href="https://www.sciencedirect.com/science/article/pii/S0272884219334583">https://www.sciencedirect.com/science/article/pii/S0272884219334583</a>

# Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

Sr No	Authors	Paper Details (Title, Journal, issue, pages etc)	Year of Publication	Link to Paper
<u>4.</u>	Supriya R. Patade, Deepali D. Andhare, <b>Prashant B. Kharat</b> , Ashok V. Humbe, K. M. Jadhav	Impact of crystallites on enhancement of bandgap of Mn <sub>1-x</sub> Zn <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> (1 ≥ x ≥ 0) nanospinels Chemical Physics Letters, Elsevier <a href="#">Volume 745</a> , 16 April 2020, 137240	April 2020	<a href="https://www.sciencedirect.com/science/article/abs/pii/S000926142030155X">https://www.sciencedirect.com/science/article/abs/pii/S000926142030155X</a>
<u>5.</u>	Sandeep B. Somvanshi, Mangesh V. Khedkar, <b>Prashant B. Kharat</b> , K. M. Jadhav	Influential diamagnetic magnesium (Mg <sup>2+</sup> ) ion substitution in nano-spinel zinc ferrite (ZnFe <sub>2</sub> O <sub>4</sub> ): Thermal, structural, spectral, optical and physisorption analysis Ceramics International, Elsevier <a href="#">Volume 46, Issue 7</a> , May 2020, Pages 8640-8650	May 2020	<a href="https://www.sciencedirect.com/science/article/pii/S0272884219335862">https://www.sciencedirect.com/science/article/pii/S0272884219335862</a>
<u>6.</u>	Sandeep B. Somvanshi, <b>Prashant B. Kharat</b> , Tukaram S. Saraf, Saurabh B. Somvanshi, Sumit B. Shejul, K. M. Jadhav	Multifunctional nano-magnetic particles assisted viral RNA-extraction protocol for potential detection of COVID-19 Materials Research Innovations, Taylor & Francis <a href="#">Volume 25, 2021 - Issue 3</a>	11 May 2020	<a href="https://www.tandfonline.com/doi/full/10.1080/14328917.2020.1769350">https://www.tandfonline.com/doi/full/10.1080/14328917.2020.1769350</a>
<u>7.</u>	Sandeep B. Somvanshi, Swapnil A. Jadhav, Mangesh V. Khedkar, <b>Prashant B. Kharat</b> , S. D. More, K. M. Jadhav	Structural, thermal, spectral, optical and surface analysis of rare earth metal ion (Gd <sup>3+</sup> ) doped mixed Zn–Mg nanospinel ferrites Ceramics International, Elsevier <a href="#">Volume 46, Issue 9</a> , 15 June 2020, Pages 13170-13179	June 2020	<a href="https://www.sciencedirect.com/science/article/pii/S0272884220304132">https://www.sciencedirect.com/science/article/pii/S0272884220304132</a>
<u>8.</u>	Pallavi G. Undre, <b>Prashant B. Kharat</b> , Jitendra S. Kounsalye, R. V. Kathare, K. M. Jadhav	Structural, morphological and magnetic properties of Cu <sup>2+</sup> doped ZnO nanoparticles Journal of Physics: Conference Series, IOP Publishing Pallavi G. Undre <i>et al</i> 2020 <i>J. Phys.: Conf. Ser.</i> <b>1644</b> 012008	June 2020	<a href="https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012008/meta">https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012008/meta</a>
<u>9.</u>	<b>Prashant B. Kharat</b> , Sandeep B. Somvanshi, Pankaj P. Khirade and K. M. Jadhav	Effect of magnetic field on thermal conductivity of the cobalt ferrite magnetic nanofluids Journal of Physics: Conference Series, IOP Publishing Prashant B. Kharat <i>et al</i> 2020 <i>J. Phys.: Conf. Ser.</i> <b>1644</b> 012028	June 2020	<a href="https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012028">https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012028</a>

# Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

Sr No	Authors	Paper Details (Title, Journal, issue, pages etc)	Year of Publication	Link to Paper
<u>10.</u>	A. S. Wadatkar, <b>Prashant B. Kharat</b> , A. V. Turkhade, S. G. Onkar and P. S. Bodkhe	The D.C electrical properties of lithium ion conducting solid polymer electrolyte based on polyvinyl alcohol Journal of Physics: Conference Series, IOP Publishing A. S. Wadatkar <i>et al</i> 2020 <i>J. Phys.: Conf. Ser.</i> <b>1644</b> 012037	June 2020	<a href="https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012037">https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012037</a>

## Collaborative Publication of Dr. Prashant Kharat with Dr. S. G. Onkar

Sr No	Authors	Paper Details (Title, Journal, issue, pages etc)	Year of Publication	Link to Paper
<u>1.</u>	A. S. Wadatkar, Prashant B. Kharat, <b>Ajay V. Ambhore</b> , S. G. Onkar	Low-cost fabrication of Cu doped ZnO(Zn <sub>0.95</sub> Cu <sub>0.05</sub> O) film for enhanced gas sensing applications Journal of Physics: Conference Series, IOP Publishing <i>J. Phys.: Conf. Ser.</i> <b>1644</b> 012059	June 2020	<a href="https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012059">https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012059</a>
<u>2.</u>	<b>A. S. Wadatkar</b> , Prashant B. Kharat, A. V. Turkhade, S. G. Onkar and P. S. Bodkhe	The D.C electrical properties of Lithium ion conducting solid polymer electrolyte based on polyvinyl alcohol Journal of Physics: Conference Series Volume: 1644, <i>J. Phys.: Conf. Ser.</i> <b>1644</b> 012037	June 2020	<a href="https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012037">https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012037</a>
<u>3.</u>	<b>A. S. Wadatkar</b> , Prashant B. Kharat, Ajay V. Ambhore and S. G. Onkar	Low-cost Fabrication of Cu doped ZnO (Zn <sub>0.95</sub> Cu <sub>0.05</sub> O) Film for Enhanced Gas Sensing Applications Journal of Physics: Conference Series Volume: 1644,	June 2020	<a href="https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012059">https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012059</a>
<u>4.</u>	<b>A S Wadatkar</b> , S G Onkar, S B Nagdeote, and P B Kharat	Gas sensing behavior of ZnO thick film sensor towards H <sub>2</sub> S, NH <sub>3</sub> , LPG and CO <sub>2</sub> . Journal of Physics: Conference Series Volume: 1644, <i>J. Phys.: Conf. Ser.</i> <b>1644</b> 012060	June 2020	<a href="https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012060/meta">https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012060/meta</a>
<u>5.</u>	S G Onkar, S B Nagdeote, A S Wadatkar, <b>Prashant B. Kharat</b>	Gas sensing behavior of ZnO thick film sensor towards H <sub>2</sub> S, NH <sub>3</sub> , LPG and CO <sub>2</sub> Journal of Physics: Conference Series, IOP Publishing S G Onkar <i>et al</i> 2020 <i>J. Phys.: Conf. Ser.</i> <b>1644</b> 012060	June 2020	<a href="https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012060">https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012060</a>

# Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

Sr No	Authors	Paper Details (Title, Journal, issue, pages etc)	Year of Publication	Link to Paper
6.	A. S. Wadtkar, <b>Prashant B. Kharat</b> , Ajay V. Ambhore, S. G. Onkar	Low-cost fabrication of Cu doped ZnO(Zn <sub>0.95</sub> Cu <sub>0.05</sub> O) film for enhanced gas sensing applications Journal of Physics: Conference Series, IOP Publishing A. S. Wadtkar <i>et al</i> 2020 <i>J. Phys.: Conf. Ser.</i> <b>1644</b> 012059	June 2020	<a href="https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012059">https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012059</a>

## Collaborative Publication of Dr. Prashant Kharat with Dr. Saurabh B. Somwanshi

Sr No	Authors	Paper Details (Title, Journal, issue, pages etc)	Year of Publication	Link to Paper
<u>1.</u>	B. H. Devmunde, Saurabh B. Somwanshi, <b>Prashant B. Kharat</b> , Madhukar B. Solunke	Rare earth ion (La <sup>3+</sup> ) doped BaTiO <sub>3</sub> Perovskite nanoceramics for spintronic applications B. H. Devmunde, Saurabh B. Somwanshi, <b>Prashant B. Kharat</b> , Madhukar B. Solunke Journal of Physics: Conference Series, IOP Publishing B. H. Devmunde <i>et al</i> 2020 <i>J. Phys.: Conf. Ser.</i> <b>1644</b> 012055	June 2020	<a href="https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012055">https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012055</a>
<u>2.</u>	Saurabh B. Somwanshi, Sandeep B. Somvanshi, <b>Prashant B. Kharat</b>	Visible light driven photocatalytic activity of TiO <sub>2</sub> nanoparticles prepared via gel-combustion process Journal of Physics: Conference Series, IOP Publishing Saurabh B. Somwanshi <i>et al</i> 2020 <i>J. Phys.: Conf. Ser.</i> <b>1644</b> 012042	June 2020	<a href="https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012042">https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012042</a>
<u>3.</u>	Saurabh B. Somwanshi, Sandeep B. Somvanshi, <b>Prashant B. Kharat</b>	Nanocatalyst: A brief review on synthesis to applications Journal of Physics: Conference Series, IOP Publishing Saurabh B. Somwanshi <i>et al</i> 2020 <i>J. Phys.: Conf. Ser.</i> <b>1644</b> 012046	June 2020	<a href="https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012046">https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012046</a>
<u>4.</u>	Saurabh B. Somwanshi, Sandeep B. Somvanshi, <b>Prashant B. Kharat</b>	Multifunctional magnetic nano-platforms for advanced biomedical applications: A brief review Journal of Physics: Conference Series, IOP Publishing Prashant B. Kharat <i>et al</i> 2020 <i>J. Phys.: Conf. Ser.</i> <b>1644</b> 012036	June 2020	<a href="https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012036">https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/012036</a>

Sr No	Authors	Paper Details (Title, Journal, issue, pages etc.)	Year of Publication	Link to Paper
<u>1.</u>	<b>Prashant B. Kharat</b> , Anant S. Wadatkar, Sandeep B. Somvanshi, Pankaj Koinkar, Harsharaj S. Jadhav, Prasanta Ghosh, Arti D. Rushi	Preface: International web conference on advanced material science and nanotechnology (NANOMAT-2020) Journal of Physics: Conference Series, IOP Publishing Prashant B. Kharat <i>et al</i> 2020 <i>J. Phys.: Conf. Ser.</i> <b>1644</b> 011001	June 2020	<a href="https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/011001">https://iopscience.iop.org/article/10.1088/1742-6596/1644/1/011001</a>

## IV. Collaborative activities for research, Faculty exchange, Student exchange/ internship in the year 2020 – 2021

### Collaborative Publication of Dr. Suchita Khodke with Dr. Rekha C. Maggirwar

Sr No	Authors	Paper Details (Title, Journal, issue, pages etc)	Year of Publication	Link to Paper
<u>1.</u>	K. G. Wankhade, Dr. R. C. Maggirwar, S. P. Khodke	World Journal of Pharmaceutical and life sciences, wjpls, 2021, Vol. 7, Issue 4, 118 - 122	January 2021	<a href="https://www.wjpls.org/home/ahttp://www.ijstm.com/images/short_pdf/1619502411_GST_13.pdfarticle_abstract/2202">https://www.wjpls.org/home/ahttp://www.ijstm.com/images/short_pdf/1619502411_GST_13.pdfarticle_abstract/2202</a>
<u>2.</u>	Priti Dhakulkar, Suchita Khodke Rekha Maggirwar	International Journal of Science, Technology and Management, Volume No. 10, Special issue No.1, 69-75,	April 2021	<a href="http://www.ijstm.com/images/short_pdf/1619502411_GST_13.pdf">http://www.ijstm.com/images/short_pdf/1619502411_GST_13.pdf</a>
<u>3.</u>	Ragini Zade, Suchita Khodke, Rekha Maggirwar	International Journal of Recent Scientific Research, Vol.12, Issue (03) A, pp. 41207-41210	March 2021	<a href="http://recentscientific.com/studies-am-fungi-associated-tagetes-erecta-l-melghat-forest-maharashtra">http://recentscientific.com/studies-am-fungi-associated-tagetes-erecta-l-melghat-forest-maharashtra</a>

### Collaborative Publication of Dr. Gajendrasingh Pachlore with Dr. Mamta Chandrakar

Sr No	Authors	Paper Details (Title, Journal, issue, pages etc)	Year of Publication	Link to Paper
<u>1.</u>	Dr Gajendrasingh Pachlore*, Dr Mamta Chandrakar, Dr Pratibha Mahalle*	International Journal of Science Technology and Management, Vol No. 01, Queens of Era-2021	April 2021	<a href="http://www.ijstm.com/images/short_pdf/1619502144_GST_2.pdf">http://www.ijstm.com/images/short_pdf/1619502144_GST_2.pdf</a>

### Collaborative Publication of Dr. Abhijit Bansod with Dr. Vijay Mete

Sr No	Authors	Paper Details (Title, Journal, issue, pages etc)	Year of Publication	Link to Paper
<u>1.</u>	V.G. Mete A.S. Bansod, P. B. Murade	International Journal of Mathematics Trends and Technology, Volume 66 Issue 11, 117-127, November 2020	November 2020	<a href="https://www.researchgate.net/publication/346314112_Accelerating_Anisotropic_Bianchi_Type-V_Model_with_Barotropic_Matter_and_Viscous_Dark_Energy_in_Lyra_Geometry">https://www.researchgate.net/publication/346314112_Accelerating_Anisotropic_Bianchi_Type-V_Model_with_Barotropic_Matter_and_Viscous_Dark_Energy_in_Lyra_Geometry</a>

Sr No	Authors	Paper Details (Title, Journal, issue, pages etc)	Year of Publication	Link to Paper
<u>1.</u>	Sandeep B. Somvanshi, Supriya R. Patade, Deepali D. Andhare, Swapnil A. Jadhav, Mangesh V. Khedkar, <b>Prashant B. Kharat</b> , Pankaj P. Khirade, K. M. Jadhav	Hyperthermic evaluation of oleic acid coated nano-spinel magnesium ferrite: Enhancement via hydrophobic-to-hydrophilic surface transformation Journal of Alloys and Compounds, Elsevier <a href="#">Volume 835</a> , 15 September 2020, 155422	September 2020	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0925838820317850">https://www.sciencedirect.com/science/article/abs/pii/S0925838820317850</a>
<u>2.</u>	<b>Prashant B. Kharat</b> , Sandeep B. Somvanshi, Pankaj P. Khirade, K. M. Jadhav	Induction heating analysis of surface-functionalized nanoscale CoFe <sub>2</sub> O <sub>4</sub> for magnetic fluid hyperthermia toward noninvasive cancer treatment ACS Omega, ACS Publications <i>ACS Omega</i> 2020, 5, 36, 23378–23384	September 2020	<a href="https://pubs.acs.org/doi/10.1021/acsomega.0c03332">https://pubs.acs.org/doi/10.1021/acsomega.0c03332</a>
<u>3.</u>	V. R. Bhagwat, Mangesh V. Khedkar, Govind Kulkarni, <b>Prashant B. Kharat</b> , K. M. Jadhav	Dextrose assisted sol-gel auto combustion synthesis and magnetic characterizations of cobalt ferrite nanoparticles. AIP Conference Proceedings, AIP Publishing AIP Conference Proceedings <b>2265</b> , 030085 (2020).	November 2020	<a href="https://aip.scitation.org/doi/abs/10.1063/5.0017310">https://aip.scitation.org/doi/abs/10.1063/5.0017310</a>
<u>4.</u>	Supriya R. Patade, Deepali D. Andhare, Sandeep B. Somvanshi, <b>Prashant B. Kharat</b> , K. M. Jadhav	Effect of zinc doping on water-based manganese ferrite nanofluids for magnetic hyperthermia application AIP Conference Proceedings, AIP Publishing AIP Conference Proceedings <b>2265</b> , 030557 (2020).	November 2020	<a href="https://aip.scitation.org/doi/10.1063/5.0017051">https://aip.scitation.org/doi/10.1063/5.0017051</a>

# Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

## V. Collaborative activities for research, Faculty exchange, Student exchange/ internship in the year 2021 – 2022

### Collaborative Publication of Dr. Gajendrasingh Pachlore with Dr. Mamta Chandrakar

Sr No	Authors	Paper Details (Title, Journal, issue, pages etc)	Year of Publication	Link to Paper
<u>1.</u>	Chandrakar M. R. Kalwade P. S. Pachlore G. S.	Advances in Zoology and Botany 10(1): 18-24, 2022	March 2022	<a href="https://www.hrpub.org/journals/article_info.php?aid=11908">https://www.hrpub.org/journals/article_info.php?aid=11908</a>

### Collaborative Publication of Dr. Abhijit Bansod with Dr. Prachi Agrawal

Sr No	Authors	Paper Details (Title, Journal, issue, pages etc)	Year of Publication	Link to Paper
<u>1.</u>	Prachi Agrawal, Abhijit Bansod, Umesh Takey3	International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211 Volume 10, Issue 6, June-2022	June 2022	<a href="http://www.ijaresm.com/uploaded_files/document_file/PrachiAgrawalxHxL.pdf">http://www.ijaresm.com/uploaded_files/document_file/PrachiAgrawalxHxL.pdf</a>

### Collaborative Publication of Dr. Prashant Kharat with Dr. K. M. Jadhav

Sr No	Authors	Paper Details (Title, Journal, issue, pages etc)	Year of Publication	Link to Paper
<u>1.</u>	Sandeep B. Somvanshi, Prashant B. Kharat, K. M. Jadhav	Surface Functionalized Superparamagnetic Zn-Mg Ferrite Nanoparticles for Magnetic Hyperthermia Application Towards Noninvasive Cancer Treatment Macromolecular Symposia, Wiley Publishing 2100124	December 2021	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/masy.202100124">https://onlinelibrary.wiley.com/doi/abs/10.1002/masy.202100124</a>

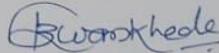
# Vinayak Vidnyan Mahavidyalaya, Nandgaon Kh.

## Collaborative Publication of Dr. Prashant Kharat with Dr. Sandeep B. Somvanshi

Sr No	Authors	Paper Details (Title, Journal, issue, pages etc)	Year of Publication	Link to Paper
<u>1.</u>	Saurabh B. Somvanshi, Sandeep B. Somvanshi, <b>Prashant B. Kharat</b> , Nanasheeb D. Thorat	Magnetically Retrievable Fe-doped TiO <sub>2</sub> Nanoparticles for Photo-induced Toxic Dye Removal Applications Macromolecular Symposia, Wiley Publishing 2100112	December 2021	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/masy.202100112">https://onlinelibrary.wiley.com/doi/abs/10.1002/masy.202100112</a>

Sr No	Authors	Paper Details (Title, Journal, issue, pages etc)	Year of Publication	Link to Paper
<u>2.</u>	<b>Prashant B. Kharat</b> , Sandeep B. Somvanshi, Saurabh B. Somvanshi, Anuja M. Mopari	Investigation of Super-Capacitive Properties of Nanocrystalline Copper-Zinc (Cu <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> ) Ferrite Nanoparticles Macromolecular Symposia, Wiley Publishing 2100162	December 2021	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/masy.202100162">https://onlinelibrary.wiley.com/doi/abs/10.1002/masy.202100162</a>
<u>3.</u>	Sandeep B. Somvanshi, <b>Prashant B. Kharat</b> , K. M. Jadhav	Surface Functionalized Superparamagnetic Zn-Mg Ferrite Nanoparticles for Magnetic Hyperthermia Application Towards Noninvasive Cancer Treatment Macromolecular Symposia, Wiley Publishing 2100124	December 2021	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/masy.202100124">https://onlinelibrary.wiley.com/doi/abs/10.1002/masy.202100124</a>
<u>4.</u>	<b>Prashant B. Kharat</b> , Sandeep B. Somvanshi, Saurabh B. Somvanshi, Anuja M. Mopari	Low-cost Fabrication of Zn-doped MnFe <sub>2</sub> O <sub>4</sub> (Mn <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> ) Film for H <sub>2</sub> S Gas Sensing Applications Macromolecular Symposia, Wiley Publishing 2100147	December 2021	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/masy.202100147">https://onlinelibrary.wiley.com/doi/abs/10.1002/masy.202100147</a>

## Certificate of Recognition:

	 Shri Shivaji Education Society, Amravati's <b>SHRI SHIVAJI SCIENCE COLLEGE</b> Shivaji Nagar, Morshi Road, Amravati - 444 603 (M.S.) NAAC Accredited by Grade "A <sup>+</sup> " with CGPA of 3.42 (IV Cycle) UGC Awarded Status of CPE (II Phase) Identified by DST, Government of India for FIST, SGBAU-Lead College. ISO 9001 : 2015 Certified College & nirf-2022 Rank Band : 151 - 200	
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● E-mail : shivajiscamt.office@gmail.com ● Website : www.shivajiscamt.org ● Off. : 0721-2660855, 0721-2991776, Principal : 0721-2991785		
Ref. No. SC/ / /		Date : / /
<b><u>Collaborative Research Programme-Recognition</u></b>		
<p>It is the honour for me to declare the <b>Collaborative Research Programme</b> in association of faculty member/s of <b>Department of Botany, Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar</b> affiliated to Sant Gadge Baba Amravati University, is continued from 2017 till the date 11/04/2023.</p>		
<p>It is to be indicated for recognition that the research collaboration is in the form of active research activities with faculties from <b>Department of Botany, Shri Shivaji Science College, Amravati</b> the field of <b>Mycorrhizal Bio-Technology</b>. The collaboration is intensively observed from year 2017.</p>		
<p>The collaboration is of following purpose</p>		
<ol style="list-style-type: none"><li>1. Organizing training workshop for the students and faculties.</li><li>2. Joint publication and research proposals.</li></ol>		
<p>I found the faculty members of <b>Department of Botany, Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar</b>, are very actively involved in the research activities. They are found very punctual in their work and we wish a great work ahead for future endeavours.</p>		
 <b>(Dr. TUSHAR WANKHEDE)</b> Professor & Head Department of Botany Shri Shivaji Science College, Amravati		

Establishment Year : 1962

Shiksha Mandal's  
**Bajaj College of Science, Wardha**

(Formerly known as Jankidevi Bajaj College of Science, Wardha)  
Autonomous College  
A Linguistic Minority College  
Reaccredited 'A' Institution (CGPA 3.21), NAAC (UGC), Bangalore  
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Uni. College No. : 652  
Jr. College No. : 07-01-003

Ref No. J.B.C./ /2019-2020

Date : 23/10/2019

### Collaborative Research Programme-Recognition

It is a great honour for me to declare the **Collaborative Research Programme** in association with Dr Gajendrasingh Pachlore, Assistant Professor Department of Zoology of Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar affiliated to Sant Gadge Baba Amravati University, is continued from 2019 till the date.

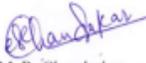
It is to be indicated for recognition that the research collaboration is in the form of active research work with faculty from Zoology Department in the field of *Molecular Biology/Toxicology/Biodiversity/Environment/Conservation etc.* The collaboration is intensively observed from few mentioned publication below.

Name of the Paper	Journal Name	Year of Publication
Guaging the online Learning preferences of students as a Stakeholder in higher education institute during the COVID-19- Lockdown scenario through online survey Page no - 331 to 335	SCHE-DC19-LPIW 2020, Vol. 1. (ISBN: 978-93-5407-920-7)	2020
Survey to understand the impact of home-schooling on children's due to lock-down and role of Women as a Bridge between School and schooling	International Journal of Science & Technology and Management	2020
Solid Waste management by Amravati Municipality Corporation Before and during Global Pandemic Scenario: A case study to understand strategy and Policy for Solid waste management During Covid - 19 Pandemic	Journal of Research and Development : A multidisciplinary international level refereed and peer reviewed Journal	2021
Constraints Analysis of Kadaknath Meat preference over other poultry birds meat in the district of Amravati using Garret Ranking Method.	B.Adhar International Peer reviewed indexed research Journal	2021
Biodiversity of Moths in Hinganghat Taluka, Wardha, Maharashtra (India)	Advances in Zoology and Botany	2022

The collaboration is for following purpose

- Organizing training workshop for the students and faculties.
- Joint publication and research proposals.

I found the faculty member Dr Gajendrasingh Pachlore of Zoology Department of Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar is very actively involved in the research Work. He is very punctual in his work.

  
Dr. M. R. Chandrakar  
Head  
Department of Zoology  
Head / Incharge  
Department Of Zoology  
Bajaj College Of Science, Wardha

**Dr. Babasaheb Ambedkar Marathwada University**  
**Aurangabad-431004, Maharashtra, India**  
**DEPARTMENT OF PHYSICS**  
 (DST-FIST and UGC-Supported)

**Dr. Kamalakar M. Jadhav**  
 Ph.D., FMASc  
 Senior Professor and Head



Phone No. : +91-240-2403386  
 Fax No. : +91-240-2403113  
 Cell : +91-9422686061  
 Email : drjadhavkm@gmail.com

“NAAC Reaccredited with "A" Grade”

Date : 1<sup>st</sup> August 2022

### Collaborative Research Programme Recognition

It is the honour for me to declare the Collaborative Research Programme in association of faculty member Dr. Prashant B. Kharat of the Physics Department of Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar affiliated to Sant Gadge Baba Amravati University, is continued from 26<sup>th</sup> December 2019 to 31<sup>st</sup> July 2022.

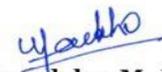
It is to be indicated for recognition that the research collaboration is in the form of active research activities with faculties from the Physics Department in the field of Magnetic Nanomaterials. The collaboration is intensively observed from below some of the research papers published jointly.

Sr. No.	Title of the Paper	Name of Journal, Publisher	Date of Publication
1	Induction heating analysis of surface-functionalized nanoscale CoFe <sub>2</sub> O <sub>4</sub> for magnetic fluid hyperthermia toward noninvasive cancer treatment	ACS Omega, ACS Publications	02/09/2020
2	Hyperthermic evaluation of oleic acid coated nano-spinel magnesium ferrite: Enhancement via hydrophobic-to-hydrophilic surface transformation	Journal of Alloys and Compounds, Elsevier	15/09/2020
3	Multifunctional nano-magnetic particles assisted viral RNA-extraction protocol for potential detection of COVID-19	Materials Research Innovations, Taylor & Francis	11/05/2020
4	Impact of crystallites on enhancement of bandgap of Mn <sub>1-x</sub> Zn <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> (1 ≥ x ≥ 0) nanospinels	Chemical Physics Letters, Elsevier	16/04/2020
5	Structural, infrared, magnetic and ferroelectric properties of Sr <sub>0.5</sub> Ba <sub>0.5</sub> Ti <sub>1-x</sub> Fe <sub>x</sub> O <sub>3</sub> nanoceramics: Modifications via trivalent Fe ion doping	Physica B: Condensed Matter, Elsevier	15/03/2020

The collaboration is of following purpose

- Organizing training workshop for the students and faculties.
- Joint publication and research proposals.

I found the Dr. Prashant B. Kharat, faculty member of the Physics Department of Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar, are very actively involved in the research activities. He is are very punctual in their work.

  
**Dr. Kamalakar M. Jadhav**  
 Ph.D., FMASc  
 Senior Professor and Head  
 Department of Physics  
 Dr. Babasaheb Ambedkar  
 Marathwada University,  
 Aurangabad.



Vidarbha Youth Welfare Society's  
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Nyayamutri Krushnarao Deshmukh Science College  
Badnera-Amravati (M.S.) Pin-444701  
(Accredited B+ Grade by NAAC)

Ph.No.2681232,2580232 Fax:0721-26681232,Email-edik\_kd@rediffmail.com,Website-www.rdikandkd.org

Date: 01/10/2021

## Collaborative Research Programme-Recognition

It is the honour for us to declare the Collaborative Research Programme in association of faculty members of Mathematics Department of Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar affiliated to Sant Gadge Baba Amravati University, has been continued since 2020.

It is to be indicated for recognition that the research collaboration is in the form of active research activities with faculties from Mathematics Department in the field of Cosmology/General Theory of Relativity/Modified Theories of Relativity. The collaboration is intensively observed from Research Papers.

The collaboration is of following purposes

1. Organizing training workshop for the students and faculties.
2. Joint publication and research proposals.

I found the faculty members of Mathematics Department of Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar, are very actively involved in the research activities. They are very punctual in their work.

**Dr. Vijay Mete**  
Head, Department of Mathematics  
R.D.I.K. College, Amravati.

**Dr. V. G. Mete**  
Professor & Head  
Department of Mathematics,  
R.D.I.K. & K.D. College, Badnera-Amravati

Estd: 1972

॥ ज्ञानम् विज्ञान सहितम् ॥

☎ Off. : (0721) 2677011  
Fax : (0721) 2677011  
Mobile : 09422949550



Dr. D.S. Dhote  
Principal

Shri Brijlal Biyani Shiksha Samiti's

**Brijlal Biyani Science College**

**Biyani Educational Campus, AMRAVATI - 444 605**

[Affiliated to Sant Gadge Baba Amravati University, Amravati.]  
[Re-accredited by NAAC Bangalore at B<sup>++</sup> Level]

Website: [www.bbscamt.com](http://www.bbscamt.com)  
Email ID: [biyani\\_college@yahoo.com](mailto:biyani_college@yahoo.com), [sbbsm125@sgbau.ac.in](mailto:sbbsm125@sgbau.ac.in)

Date: 04/04/2022

## Collaborative Research Programme-Recognition

It is the honour for us to declare the **Collaborative Research Programme** in association of faculty members of **Mathematics Department** of **Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar** affiliated to Sant Gadge Baba Amravati University, has been continued since 2020.

It is to be indicated for recognition that the research collaboration is in the form of active research activities with faculties from Mathematics Department in the field of **Cosmology/General Theory of Relativity/Modified Theories of Relativity**. The collaboration is intensively observed from Research Papers.

The collaboration is of following purposes

1. Organizing training workshop for the students and faculties.
2. Joint publication and research proposals.

I found the faculty members of Mathematics Department of Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar, are very actively involved in the research activities. They are very punctual in their work.

**Dr. Prachi Agrawal**  
Head, Department of Mathematics  
Brijlal Biyani Science College, Amravati.

**Dr. P. R. Agrawal**  
Asstt. Professor & Head  
Dept. of Mathematics  
Brijlal Biyani Science College