

# Pune District Education Association's Annasaheb Magar Mahavidyalaya

#### Hadapsar, Pune-411028

Affiliated to Savitribai Phule Pune University, Pune



Self Study Report: 2024 (4th Cycle)



Criterion – 3
Research, Innovation and Extension

**Key Indicators 3.5 – Collaboration** 

**Metric: 3.5.1(QnM)** 

Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years



Submitted to

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL BENGALURU

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#### PDEA's Annasaheb Magar Mahavidyalaya, Hadapsar, Pune-28 SSR 2024 (4<sup>th</sup> Cycle)

# Pune District Education Association's

# Annasaheb Magar Mahavidyalaya

# Hadapsar, Pune – 411028. **INDEX**

**YEAR: 2020 - 2021** 



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# MOU'S AND ACTIVITIES 2020-21

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### **MOU 1: BGM TECHNOLOGY**



#### MEMORANDUM OF UNDERSTANDING

This memorandum of understanding is signed between:

The BGM Technologies located at Wagholi, Pune AND

The Annasaheb Magar Mahavidyalaya, located at Hadapsar, Pune-28 behalf of itself and acting through the Principal.

AND WHEREAS it is helpful to college to conduct the new course for Software Development. The BGM Technologies organization will help in content creation for various courses of Software Development. Also it will help to conduct the courses and gives advance knowledge by providing industrial trainers and subject experts who give training on latest technologies to the students.

- i Innovation in education leading restructuring of courses, new methods of teaching and learning and integral development of personality.
- ii As per industry requirement new technologies are introduced.

NOW THEREOF THE Annasaheb Magar Mahavidyalaya AND BGM Technologies. Have intended, agreed and consented to the following terms and deeds in pursuance of a common intent to promote and develop the study. Conducting the campus placement drive.

#### 1. FIELD OF COOPERATION:

- a. Both the institutions shall evolve a mutually acceptable schedule to develop programs, hold seminars and exchange visits.
- b. The said academic interaction and intellectual assimilation may include
  - i. Faculty/ Staff development and exchange
  - ii. Allow to conduct the campus drive for students
  - iii. Seminars, research, conferences and workshops
  - iv. Collaborations in the sharing of academic data, scientific information, intellectual property, articles and publications
  - v. Advice surgeries, placements and execute trainings

Address: BGM Technologies, Opp. Raisoni College, Wagholi, Pune: 412207, Maharashtra, INDIA.

Tel: 8411850101 Email: hr@bgmtechnologies.com

Web: www.bgmtechnologies.com

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## **MOU 1: BGM TECHNOLOGY**

#### 2. EXCHANGE OF STUDENTS/TEACHERS:

A. Reciprocal arrangements based on mutually acceptable terms shall be accomplished to give an impetus to collaborative research and joint projects. Teachers, researchers, guides and students of both the institutions shall be encouraged to work in tandem in the laboratories, workshops, faculties and departments of both the institutions.

B. Issues relating to travel, boarding, lodging, miscellaneous expenses shall be incorporated in this Para and shall vary according to the rules, regulations and policies of every institution.

#### 3. MISCELLENEOUS:

- a. The details for the efficacious implementation of this Memorandum of Understanding shall be jointly workout on manually acceptable terms within the parameters of the policies, rules and regulations of both the institutions.
- b. The parties to the memorandum may, by mutual consent, add, modify, amend, delete, review or revise any term(s) and condition(s) of this agreement.
- c. The intent and implementation of this Memorandum is SUBJECT to the policies of the respective states (in case of international agreements) and the laws of the land.
- d. The MoU shall remain in force for a period of 3 years from the date of its signature and seal, and may be terminated by either side by giving six months notice to that effect in writing. However, notwithstanding the notice of intend to terminate the Memorandum, all rights, obligations and corresponding duties and subsisting therein shall be respected and mandated till the finalization and accomplishment thereof.
- e. The parties of this MoU undertake to treat as CONFIDENTIAL AND PRIVILEDGE information of the other institutions, which is so classified in advance. The terms of confidentiality and mode of disclosure shall be as per mutually acceptable terms.
- f. This MoU shall require the ratification of the competent academic/ executive body of both the institutions.

Signed at Pune on the Monday day of 05/06/2021

Authorized signatory on behalf of Annasaheb Magar Mahavidyalaya, Hadapsar, Pune 28.

Seal: Magar Majorito Maj

Date: 0

PRINCIPAL

Annasaheb Magar Mahavidyalaya

Hadapsar, Pune-411028.

Authorized Signatory on behalf of BGM Technologies, Wagholi, Pune

Seal:

Date: 21/11)

Witness: 1. Gangh Hargude

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# **MOU 1: BGM TECHNOLOGY**

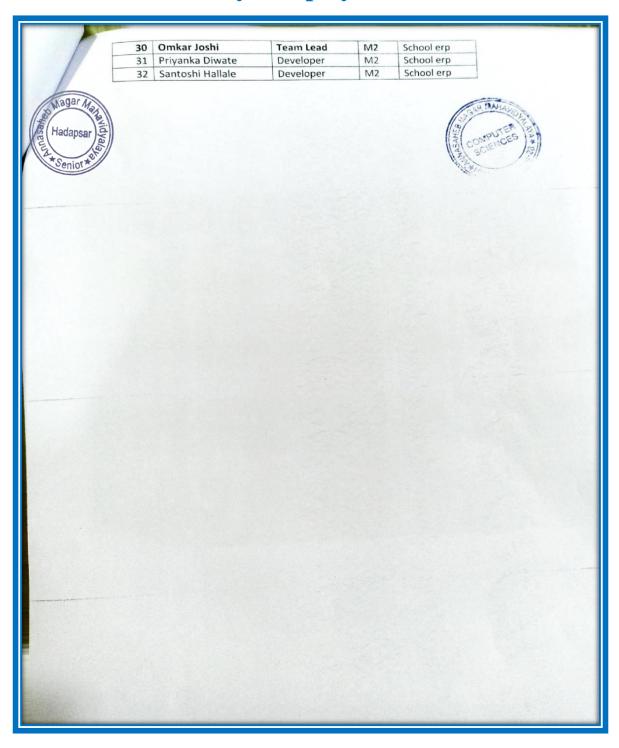
# On the Job Activity: Recruitment Drive

**Activity: Employee Details** 

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S	r.No.	Developer Name	Designation	Team	Project Name  1.School erp	-
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					2.E-commerce website	
					3. BGM	
				144	corporate	
	1	Pratiksha Shinde	Head Spoc	W	training	
		figure 1			1.School erp 2.E-commerce	
					vebsite	
					3. BGM	1
				w	Corporate	
	2	Mahesh Kudale	Asst. Head Spoc	VV	1.School erp	-
					2.E-commerce	
					website	
					3. BGM	
				1.00	Corporate	
	3	Yash Gadagkar	Asst. Head Spoc	B1	training	
	4	Shruti Sharma	Head Spoc	B1 B1	School erp	
	5	Mayuri Indalkar	Developer	B1	School erp	
	6	Pratima Ladkat	Developer	B1	School erp	
	7	Pratiksha Throat	Developer	B1	School erp	
	8	Manali Bankar	Developer	B1 B2	School erp	
	9	Akshay Sutar	Developer	B2 B2	School erp	
	10	Tushar Shinde Pranali Barkade	Developer	B2	School erp	
	11	The state of the s	Developer			
	12	Bhagyashree Pare	Developer	B2 B2	School erp	
	13	Shivani Ekad	Developer	G1	School erp	
	14	Yogesh Kadav	Team Lead	G1 G1	School erp	
	15	Pooja Joshi	Developer			
	16	Amruta Khedkar	Developer	G1	School erp	
	17	Mrunali Jawale	Developer	G1	School erp	
	18	Pratik Salunkhe	Developer	G1	School erp	
	19	Snehal Dhamdhere	Developer	G1	School erp	
	20	Suraj Jadhav	Developer	G1	School erp	
	21	Tejaswini Phadtare	Developer	G1	School erp	
	22	Abhijeet Tikore	Team Lead	G2	School erp	
	23	Adesh Kalane	Team Lead	G2	School erp	
	24	Rahul Shavi	Team Lead	G2	School erp	WAGAH MAY
	25	Swapnil Masalkar	Developer	G2	School erp	1/2/
	26	Vaishnavi Shinkar	Team Lead		School erp	COMPUTER
	27	Asawari Jagtap	Developer		School erp	SCIENCES
	28	Rutika Pawar	Developer	-	School erp	13
	29	Pradnya Undre	Developer	MI	School erp	100

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# **Activity: Employee Details**



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# **Activity: Placement Report**

Pune District Education Association's

Annasaheb Magar Mahavidyalaya Hadapsar, Pune-28

Computer Science Department



Placement Report
(BGM report for 2019-20)

P.D.E.A's Annasaheb Magar Mahavidyalaya, Computer Science Department organized recruitment drive every year with collaboration of BGM Technologies Pune . In Month of Aug 2019 a campus drive was conducted for all TY.BSc(CS) students. Total 80 students were participated in this drive.

The CEO of BGM Technologies Pvt. Ltd. Mr. Ganesh Hargude initiated this activity science last 8 years.

The main Aim of this activity is that final, year students can get Live project experience. Company first gives the training to students on latest technologies and then give Live project. Company choses smart and active students for Team Leader position.

#### Recruitment Process:

- 1. Company Introduction
- 2. Written Test of 30 min
- 3. Interviews conducted for Shortlisted candidates.
- 4. HR Interview.

Total 32 students were selected in BGM Technologies Pvt. Ltd. Students work for company after college Hours. Students has to work for 2Hr per day. The activities are recorded time to time in company.

The experience latter are given to students at the end of academic year

Placement Co-ordinator

HOD
Department of Computer Setences
Annaseheb Maga Mahavidyalaya
Hadapsar, Pune-411 028

Annasaheb Manar Mahavidyo'aya

Hadapsar Wayawid

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#### **MOU 2: ARK LED LIGHTS**





# PDEA MEMORANDUM OF UNDERSTANDING

For

#### ACADEMIC EXCHANGE

And

#### CO-OPERATION

Between

PDEA'S

#### ANNASAHEB MAGAR COLLEGE, HADAPSAR, PUNE

(Best College awarded by SPPU)

And

#### ARK LED LIGHTS Hadapsar, Pune.

This Memorandum of Understanding ("MOU") is entered into on 03/12/2020 by and among P.D.E.A.'s

Annasaheb Magar College, Hadapsar, Pune, an affiliated college of Savitribai Phule Pune University and

ARK LED LIGHTS Hadapsar, Pune

**Recitals: 1.** The parties to this MOU wish to initiate skill based programs in Electronic Technology. Basically this type of activity is helpful for students of B.Sc(Comp Sci.) in education as well as in Electronics field.

2. The purpose of this MOU is to establish a framework for such a collaborative relationship, training and activity to improve the skills of the students and from such activities, Electronic industries will get a skilled staff.

3.From this skilled based activity, students will get an awareness & training on latest technology such as LED, OLED, Solar Technology, etc. and this will be helpful in developing knowledge about LED & Solar technologies, thus in future students can open their own Start Up/ Small Industry.

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#### **MOU 2: ARK LED LIGHTS**

#### **MOU Provisions:**

With due respect of each other's independence and mutual benefits, both the institutes will carry on the following activities:

- Development of curriculum of skill oriented courses in Electronic Technology
  Training.
- Faculty sharing
- Infrastructure sharing
- Imparting career oriented education and skills to students in directly entering the workforce.
- Need based training of faculty- monthly two visits of expertise from ARK LED LIGHTS Hadapsar, Pune.
- · Collaboration for placement.

This MOU is effective for a period of two years from the date signed by the parties, unless extended by written agreement of the parties.

Principal

Annasaheb Magar Mahavidyala, Hadapsar, Pune -28. PRINCIPAL Annasaheb Magar Mahavidyalaya Hadapsar, Pune - 411 028.



FOR ARK LED LIGHTS

Atish Khabe (Proprietor) ARK LED Lights Hadapsar, Pune

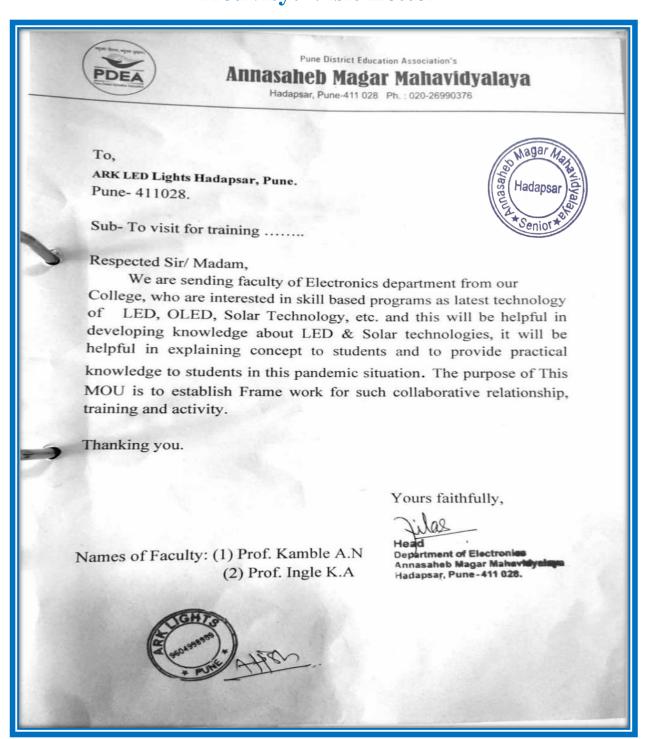


Date: 03/12/2020

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# **MOU 2: ARK LED LIGHTS**

# Industry Visit Activity: Training of Skill Based Program Activity: Visit Letter



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# **MOU 3: KESHAV SITA MEMORIAL FOUNDATION TRUST**

Magar Ma

Hadapsar



Registration No :(E3989/2003), Income Tax Exemption :PN/CIT (Exempt)/Tech/80G/493/2016-2017

- KSMFT will collect plastic scrap from AMM office periodically on mutually agreed dates and dispose it in a way which does not harm the environment.
- KSMFT will issue a certificate to AMM stating weight of plastic scrap collected and disposed off every time.
- AMM will not be liable to pay anything for the plastic scrap collection/collected from AMM
  office. The cost of transport, machineries, tools and tackles required for collection and disposal
  lies with KSMFT.
- 4. All the statutory requirements, such as ESI, P.F., minimum wages etc. applicable in respect of the workmen employed by KSMFT, should be fulfilled in all respects and KSMFT should take full responsibility for statutory compliance of their employees (Direct or contractual) whichever is applicable. KSMFT will take care of all statutory requirements/approvals required for the disposal of plastic scrap and ensure that AMM will be free from all liabilities in disposing plastic scrap collected from AMM office.
- AMM have every liberty to visit the place where plastic scrap is disposed off with prior notice of 2 days.
- AMM does not give you any minimum business guarantee.
- 7. Dr. Medha Tadpatrikarwill be KSMFT's first point of contact at any given time.
- In case if KSMFT find that the business is not viable, will give sevendays' notice in writing to KSMFTbeforestopping collection.
- AMM presume that you have all necessary statutory approvals required for running this
  business.KSMFTis ensuring that all local and statutory norms in all respects from PMC /MPCB
  whichever is applicable are fulfilled. In case AMM demands, KSMFT will provide us a copy of all
  necessary approvals.
- Scrap items mentioned below will be collected from AMM office for disposal. This list may be modified

as per new requirement in future.

Milk bags / Oil Bags/ Food bags/Yogurt containers / Disposal glasses / Cutlery /Cooking oil canisters/Laminate tubes (tooth paste / medicines)/ Carry bags/ Food item bags (wafer/ Kurkure/Farsan/wrappers/ PET bottles (Bisleri, soft drinks, Toilet cleaning material containers) / Shampoo/ Powder bottles/ empty sachets/ Detergent bags/ Plastic flowers, Buckets, chairs/ All

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# **MOU 3: KESHAV SITA MEMORIAL FOUNDATION TRUST**



Registration No :(E3989/2003), Income Tax Exemption :PN/CIT (Exempt)/Tech/80G/493/2016-2017 /4279

type of plastic wrappers bubble wraps/ Plastic toys, CD/cassette covers/ Plastic table cloth, curtains, sofa covers, etc.

As a token of your acceptance, AMM and KSMFT are required to sign and return a copy of this MOU.

Agreed and Accepted by

Agreed and Accepted by

For Annasaheb Magar Mahavidyalaya, For Keshavsita Memorial Foundation Trust,

Hadapsar, Pune

Erandawana, Pune-411004

Principal,

Director,

Dr. Pandit Shelke

Dr. Medha Tadpatrikar

e-Mail plasma amm@yahoo.com

keshavsitatrust@gmail.com

Website-www.magarcollege.com

Ph. 020-26990376, 26990353

Ph. 020-25448900, Mob: 9370223365

Authorized Signatory

Annasaheb Magar Mahavidyalaya,

Hadapsar, Pune-411028.

Authorized Signatory.

# **MOU 3: KESHAV SITA MEMORIAL FOUNDATION TRUST**

Field Visit Activity: Plastic Garbage Disposal Activity: Student Notice

#### PDEA's Annasaheb Magar Mahavidyalaya, Hadapsar, Pune-411028 Department of Botany

#### Notice

All students of the senior faculty hereby informed that you have to bring plastic and dispose plastic garbage in the bin kept at the corridor of Chemistry Department. We regularly handover to Rudra Environment under MOU. Plastic must be clean water free, free from food particles. College will acknowledge this.

Head
Head
Department of Botany
Annasaheb Magar Mahavidyalaya,
Hadapsar, Pune-411028

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# **Activity: Report**

PDEA's Annasaheb Magar Mahavidyalaya Department of Botany 2020-21



#### Plastic Garbage Disposal Report

Plastic garbage is regularly deposited to Rudra Environment Solution (Keshav Sita Memorial at Erandwane, Pune). Department of Botany have done memorandum of Understanding with Keshav Sita Memorial for the period of 12 Months. Yearly we renew MOU with the same institute. Every month 3<sup>rd</sup> Friday memorial Van comes in College premises and carry the plastic garbage for further processing. Near about 100 to 160 kg of plastic garbage we disposed to the Keshav Sita memorial to make polyfuel. It creates awareness among the students, faculty, and society. Our College campus is plastic free campus.

Head

Head

Department of Botany

Annasaheb Magar Mahavidyalaya,
Hadapsar, Pune-411028.

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# **Activity: Photos**



Annasaheb Magar Mahavidyalaya Hadapsar, Pune-411028
Department of Botany
Plastic disposed Activity to Keshasita Memorial under MOU



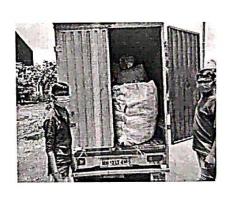








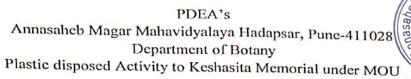


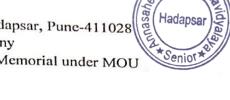




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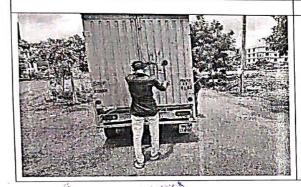
# **Activity: Photos**













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# **Activity: Plastic garbage disposal Report**

PDEA's Annasaheb Magar Mahavidyalaya Department of Botany 2020-21



#### Plastic Garbage Disposal Report

Plastic garbage is regularly deposited to Rudra Environment Solution (Keshav Sita Memorial at Erandwane, Pune). Department of Botany have done memorandum of Understanding with Keshav Sita Memorial for the period of 12 Months. Yearly we renew MOU with the same institute. Every month 3<sup>rd</sup> Friday memorial Van comes in College premises and carry the plastic garbage for further processing. Near about 100 to 160 kg of plastic garbage we disposed to the Keshav Sita memorial to make polyfuel. It creates awareness among the students, faculty, and society. Our College campus is plastic free campus.

Head
Head
Department of Botany
Annasaheb Magar Mahavidyalaya,

Hadapsar, Pune-411028.

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#### **Quick Heal Foundation**

Hadapsa

501, Metropolitan, Wakdewadi, Shivaji Nagar, Pune - 411005. Tel : 020 41467200 | Email: contact@quickhealfoundation.org

#### MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding ("MOU") is made and entered into on this 01<sup>st</sup> day of April 2020 ("Effective Date") by and between:

Quick Heal Foundation, a trust registered under the provisions of Bombay Public Trusts Act, 1950 and having its registered office at 603, Mayfair Towers, Wakdewadi, Shivaji Nagar, Pune 411 005, Maharashtra, India (hereinafter referred to as "QHF", which expression shall unless it be repugnant to the context or meaning hereof mean and include its trustees, executors, administrators and the trustees for the time being constituting QHF).

#### AND

Annasaheb Magar College, having its headquarters at Mahadev Nagar, Hadapsar Pune: 411028 (hereinafter referred to as "the Institute"/ AMM which expression shall unless repugnant to the context shall mean and include its administrators, executors and permitted assigns).

#### WHEREAS:

- QHF is a non-profit organization engaged in executing Corporate Social Responsibility ("CSR")
  initiatives of Quick Heal Technologies Limited ("QHTL") including but not limited to promotion
  of cybersecurity, promotion of education QHTL is a company incorporated under the
  provisions of Companies Act, 1956 and a leading provider of internet security solutions having
  its registered office in Pune, Maharashtra.
- Annasaheb Magar College conducts computer science courses and is affiliated to Savitribai Phule Pune Uiversity, Pune.
- 3. QHF desires to collaborate with such third parties to fulfill and implement the CSR initiatives.
- 4. The Institute has represented to QHF that it desires to participate in and support the CSR initiatives carried out by QHF;
- Based on the representations made by the Institute, QHF desires to collaborate with the Institute on a non-exclusive basis in order to promote its objectives in accordance with the terms and conditions of this MOU;
- The Parties wish to enter into this MOU in order to record their intent and understanding for the collaboration.

QHF and the Institute shall individually be referred to as a "Party" and collectively as the "Parties".

#### NOW THIS MOU WITNESSETH AS UNDER:

1) **Definitions:** In this MOU, unless the context or meaning otherwise requires, the following words and expressions shall have the following meanings:

Applicable Laws shall mean any and all national, central, state, municipal and / or local legislations, rules, regulations, statutes, ordinances, bye-laws, directions, orders and decrees of any government, statutory or other authority and any other instrument or

Contact Person: Mr. Ajay Shirke Mobile: +91 7028012479 | Email: ajay.shirke@quickhealfoundation.org

www.quickhealfoundation.org

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pronouncement having the force of law as may be issued and as may be in force from time to time.

- 1.2 Confidential Information shall mean such proprietary information or data of either Party which is not available in the public domain and is considered to be confidential by its very nature.
- 1.3 Intellectual Property Rights shall mean all worldwide intellectual property rights, including without limitation, copyrights, trademarks, service marks, know-how and all other proprietary rights, whether registered or unregistered.
- 1.4 MOU shall mean this MOU, together with its Annexures, as may be supplemented, amended, restated or replaced from time to time in accordance with this MOU.
- 1.5 Term shall have the meaning ascribed to it in clause 3.
- 2) Scope: The Parties have entered into this MOU on a non-exclusive basis in order to carry out such responsibilities, as more particularly detailed in Annexure A of this MOU. Unless otherwise indicated in Annexure A of this MOU or expressly agreed in writing between the Parties, QHF and the Institute will fulfil its respective obligations herein, respectively at their sole expense and without any cost to the other Party.
- 3) Term and Termination: This MOU will be valid and binding on the Parties for a period of 2 (Two) years commencing from the Effective Date unless otherwise terminated in accordance with this MOU. Either Party may terminate this MOU for convenience by providing a written notice of thirty (30) days to the other Party. Without prejudice to any other rights and remedies available to it hereunder or at law, QHF may at its sole discretion terminate this MOU immediately upon providing written notice to the Institute if the Institute is in breach of its obligations hereunder and such breach is not cured within seven (07) days from notice of receipt by QHF informing about such breach. Upon termination or expiry of this MOU, both the Parties will be relieved of their obligations save such liabilities that accrue prior to the termination or expiry of this MOU.
- Representations and Warranties: Each of the Parties represents and warrants that it has the capacity to enter into this MOU and perform this MOU and all activities contemplated herein.
- 5) Confidentiality: Any information exchanged between the Parties, which is of proprietary and confidential nature, whether or not marked as such, will be treated as Confidential Information. The Parties will protect and maintain the secrecy of Confidential Information exchanged between them and shall disclose the Confidential Information only to its authorized personnel on a need to know basis. Either Party will send a reasonable prior written intimation to the other Party in the event either Party intends to make any public release / statement with regard to this MOU and / or matters contemplated herein.
- 6) Intellectual Property Rights: Each Party is the sole and exclusive owner of its Intellectual Property Rights and will not dispute the ownership in Intellectual Property Rights of the other Party. The Parties will seek each other's prior written approval in the event one Party seeks access to the intellectual property of the other Party. The approval to such access, if granted, will be solely for the purposes of this MOU and will not be construed as any transfer of ownership or grant of license.
- Indemnity: Each Party will indemnify the other Party from and against third party claim or loss
  of direct nature arising out of such Party's breach of the provisions of this MOU.

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- 8) Limitation of Liability: TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NEEDENT WILL EITHER PARTY HAVE ANY LIABILITY TO THE OTHER PARTY FOR ANY INDIRECT, INCIDENTAL, SPECULATIVE, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THIS MOU. The total aggregate liability of one Party towards the other Party will not in any event exceed the sums actually incurred by the Party so liable in performing its respective obligations hereunder.
- 9) Governing Law and Jurisdiction: This MOU will be governed by the laws of India. The Parties submit themselves to the exclusive jurisdiction of the courts of Pune, India.
- 10) Force Majeure: Neither Party will be liable for failure to perform its obligations during any period if performance is delayed or rendered impracticable or impossible due to circumstances beyond that Party's reasonable control.
- 11) Relationship between Parties: The relationship of the Parties will be on a principal to principal basis. Nothing contained herein is intended to constitute any partnership, joint venture, agency or other relationship between the Parties. QHF will not have legal or other relationship whatsoever with the personnel of the Institute in performing its obligations herein.
- 12) Notices: Any notice required to be given by either Party under this MOU shall be in writing and sent by registered mail directed to the following address. In the event any notice is sent by fax mail or telex it will be followed by a confirmation copy. The names of personnel of both the Parties mentioned in this clause will be deemed to be single point of contact between both the Parties for the purposes of this MOU.

#### To QHF:

Attention: Sugandha Dani

Address: 501, The Metropolitan, Wakadewadi, Shivajinagar, Pune-411005

Tel Nos.: +91 7219002547

E-mail address: sugandha.dani@quickhealfoundation.org

To Institute/ AMM:

Attention: Prof. Manisha Gadekar

Address: Mahadev Nagar, Hadapsar Pune: 411028

Tel Nos.: 9922932037

E-mail address: tomanisha15@gmail.com

A notice given in accordance with this clause is deemed to be received:

- (i) If hand delivered, on delivery.
- (ii) If sent by prepaid post, 5 (five) days after date of posting; or
- (iii) If sent by e-mail, when the sender's system generates a message confirming successful transmission of the notice.
- 13) Waiver: Failure to enforce a provision of this MOU will not constitute a waiver.
- 14) Compliance with Applicable Laws: Each Party shall comply with the requirements of Applicable Laws while performing its obligations hereunder.
- 15) Cumulative Rights: Except as expressly provided herein, the rights, powers and remedies provided in this MOU are cumulative and not exclusive of any rights, powers and remedies provided by law.
- 16) Assignment: QHF may assign or transfer its rights and obligations hereunder to any third party without obtaining consent of the Institute.
- 17) Miscellaneous: This MOU: (a) may not be modified or amended, except by mutual written agreement of the Parties; (b) may be executed and delivered in counterparts, including by fax

or email, each of which will be deemed an original; (c) has provisions which are severable and distinct from the others and if at any time one or more of such provisions is or becomes invalid void and/or illegal the enforceability of the remaining provisions hereof will not in any way be affected or impaired thereby; and (d) constitutes the entire understanding between the Parties in relation to the subject matter hereof and supersedes any previous agreement or negotiations between the Parties.

IN WITNESS WHEREOF, THE PARTIES HAVE CAUSED THIS MOU TO BE EXECUTED THROUGH THEIR DULY AUTHORIZED REPRESENTATIVES AS OF THE DATE WRITTEN FIRST HEREINABOVE.

SIGNED SEALED AND DELIVERED For "QUICK HEAL FOUNDATION"

Name: Mr. Ajay Shirke

Designation: Program Manager, CSR

SIGNED SEALED AND DELIVERED

For "Annasaheb Magar College"

Annasaheb Magar Mahavidyalaya Hadapsar, Pune-411028.

Name: Dr. Prashant Mulay Designation: Vice Principal

Witness

Name: Mrs. Sugandha Dani Designation: Sr. Executive, CSR Witness

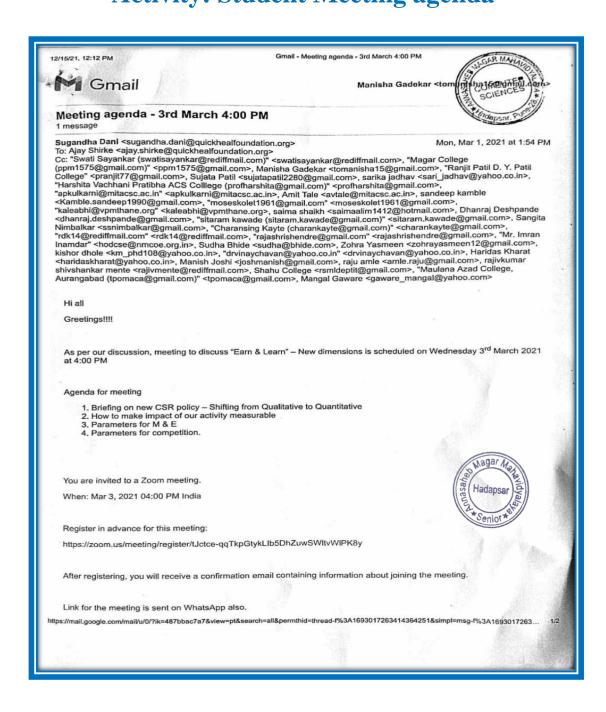
Department of Computer Sciences Annasaheb Maga Mahavidyalaya Hadapsar, Pune-411 028

Name: Jagdale Manisha Nareyan

Designation: 4.0.D

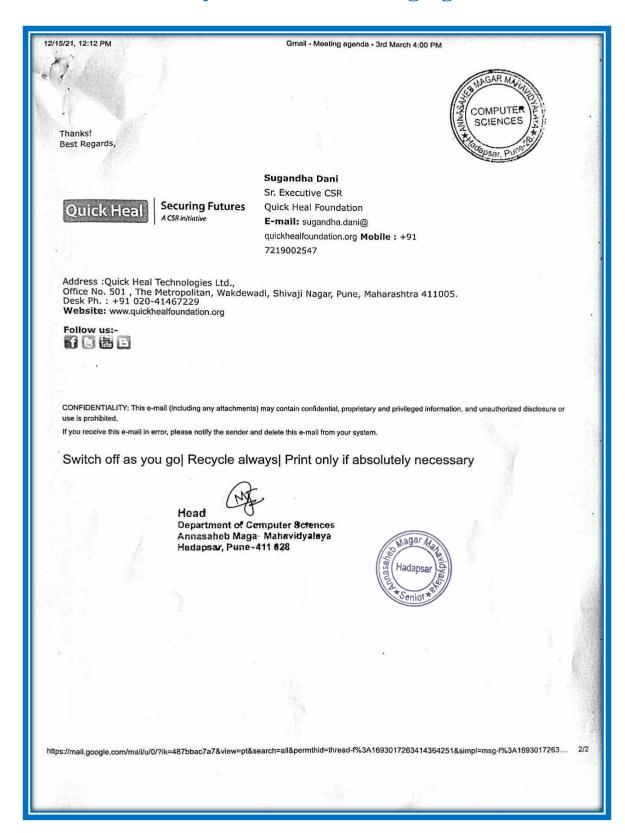
**Criterion III** 22 | P a g e

# Student Exchange Activity: Cyber Awareness and Literacy Cell Activity: Student Meeting agenda



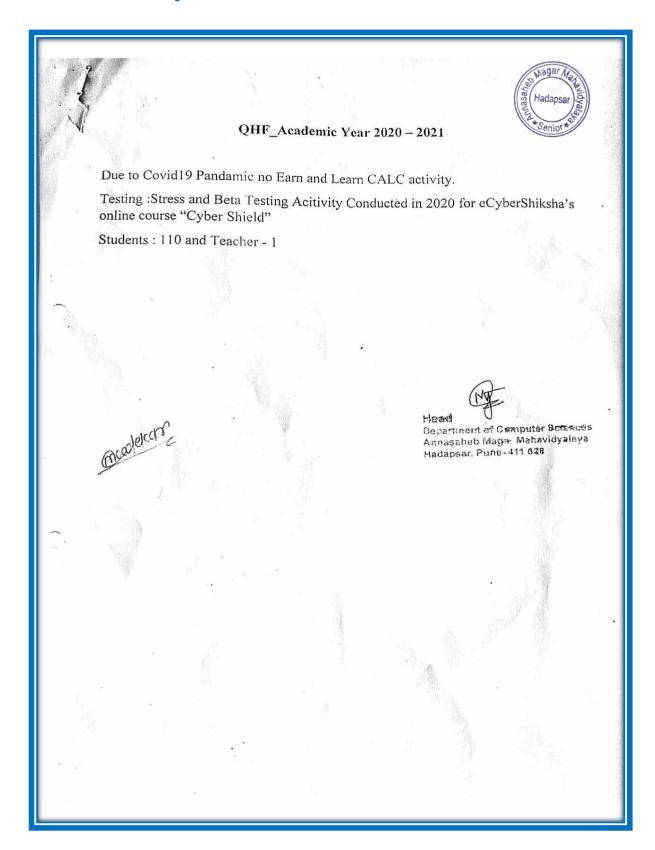
Criterion III 23 | P a g e

# **Activity: Student Meeting agenda**



Criterion III 24 | P a g e

# **Activity: Student Earn and Learn CALC**



Criterion III 25 | P a g e

# **Activity: Student Earn and Learn Project Details**

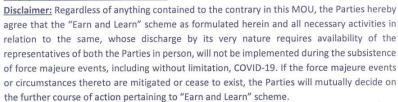
#### ANNEXURE A - SCOPE

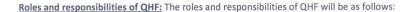
1) Project Details: The project details are as follows:

1. Earn & Learn: Cyber Security Awareness Campaign

Eligibility: computer science student

Project cost & Disbursement schedule





- 1. Earn & Learn:
  - i. Provide training to selected volunteers.
  - ii. Provide required material in hard / soft form to institutes.
  - iii. Appoint and rope in coordinator for M&E
  - iv. Make payment to institutes.
- 2) Roles and Responsibilities of the Institute: The roles and responsibilities of the Institute will be as follows:
- 1. Earn & Learn:
  - a. Provide student volunteers as per requirement of QHF.
  - b. Provide faculty coordinators and SPoC for activity.
  - c. Student volunteers to deliver presentation as per guidelines of QHF.
  - d. Teacher coordinator to submit timely reports (M&E)

Distribute payment to student volunteers as per list shared by QHF.





# **MOU 5: MILESTORES MANGO WOODS**





#### MEMORANDUM OF UNDERSTANDING

ACADEMIC EXCHANGE

And CO-OPERATION Between

PDEA'S ANNASAHEB MAGAR COLLEGE (BBA (CA) Department), HADAPSAR, PUNE And

Milestores, Mango Woods, NIBM, Undri road, Pune-411060

This Memorandum of Understanding ("MOU") is entered into on 15/08/2020 by and among P.D.E.A.'s Annasaheb Magar College, Hadapsar, Pune, an affiliated college of Savitribai Phule Pune University and Milestores, Mango Woods, NIBM, Undri road, Pune-411060

The parties to this MOU wish to initiate skill based programmes in BBA (CA) Department. The Dept. of are running undergraduate SPPU, Pune. This type MOU is very helpful to Students for acquiring skills and placements

#### **MOU Provisions:**

With due respect of each other's independence and mutual benefits, both the institutes will carry on the following activities:

- \* Development of curriculum of skill oriented courses in BBA (CA) Department & its Training.
- \* Infrastructure sharing.
- \* Imparting career oriented education and skills to students in Software programming and IT based.
- \* Need based training of faculty visits of expert from Milestores, Mango Woods, NIBM, Undri Road, Pune-411060
- \* Collaboration for placement.

This MOU is effective for a period of two years from the date signed by the parties, unless extended by written agreement of the parties.

Hadansai

Mr. Zaheer Inamdar

Mr. Milestores Mango Woods, NIBM, Undri road, Pune-411060

Principal Dr. P.N. Shelke

Annasaheb Magar Mahavidyalaya, Hadapsar, Pune-28.

**PRINCIPAL** 

Annasaheb Magar Mahavidyalays Hadapsar, Pune-411028.

**Criterion III** 27 | Page

# **MOU 5: MILESTORES MANGOWOODS**

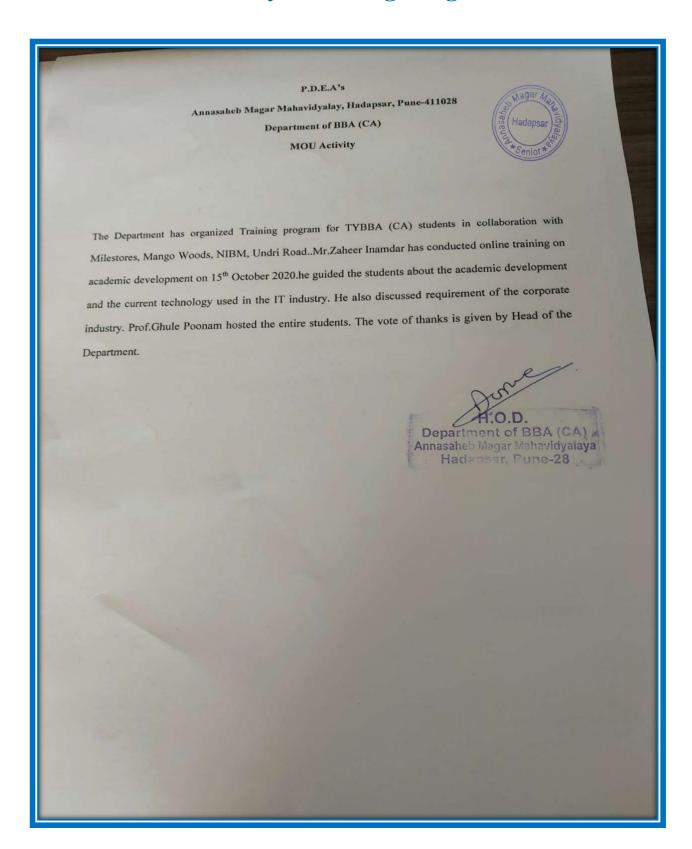
# Student Exchange Activity: Online Training on Academic Development

**Activity: Student Notice** 

P.D.E.A's Annasaheb Magar Mahavidyalaya Hadapsar, Pune-411028 Department of B.B.A. (CA) NOTICE Date: 11/10/2020 This is hereby informed to all Students of TYBBA (CA) that the department has organized training program on 15th October 2020 in collaboration with Milestores, Mango Woods, NIBM, Undri Road .All the students must remain present for the webinar. Time: 09.00 a.m. to 3.00 p.m. Coordinator

Criterion III 28 | P a g e

# **Activity: Training Program**



Criterion III 29 | P a g e

# **Activity: Student Attendance**



Criterion III 30 | P a g e

# **MOU 6: GYANYOG INFOTECH**

# uyanyog Infotech



#### MEMORANDUM OF UNDERSTANDING

This memorandum of understanding is signed between The Gyanyog Infotech located at 2nd Floor, Janu Niketan, Pune Solapur Road, Hadapsar, and Pune - 411028. AND

The Annasaheb Magar Mahavidyalaya, located at Hadapsar, Pune-28 behalf of itself and acting through the Principal.

Dated on 27/11/2021.

AND WHEREAS it is helpful to college to conduct the new course for computer hardware & networking, software development courses. The Gyanyog Infotech organization will help in content creation for various courses. Also it will help to conduct the courses and gives advance knowledge by providing industrial trainers and subject experts who give training on latest technologies to the students.

i Innovation in education leading restructuring of courses, new methods of teaching and learning and integral development of personality.

iiAs per industry requirement new technologies are introduced.

NOW THEREOF THE Annasaheb Magar Mahavidyalaya AND Gyanyog Infotech Have intended, agreed and consented to the following terms and deeds in pursuance of a common intent to promote and develop the study. Conducting the campus placement drive.

#### 1. FIELD OF COOPERATION:

- a) Both the institutions shall evolve a mutually acceptable schedule to develop programs, hold seminars and exchange The said academic interaction and intellectual assimilation may includevisits. b)
  - i. Faculty/ Staff development and exchange
  - ii. Allow to conduct the campus drive for students
  - iii. Seminars, research, conference and workshops
  - iv. Collaborations in the sharing of academic data, scientific information, intellectual property, articles and publications

Advice, placements and execute trainings.

#### 2. EXCHANGE OF STUDENTS/TEACHERS:

- Reciprocal arrangements based on mutually acceptable terms shall be accomplished to give an impetus to collaborative research and joint projects. Teachers, researchers, guides and students of both the institutions shall be encouraged to work in tandem in the laboratories, workshops, faculties and departments of both the institutions.
- b) Issues relating to travel, boarding, lodging, miscellaneous expenses shall be incorporated in this Para and shall vary according to the rules, regulations and policies of every institution.

Add: 2nd Floor, Janu Niketan, S.No-299, Kamdhenu Estate, Opp Janseva Bank, Pune-Solapur road, Hadapsar, Pune -- 411028 Phone: 020-26994640/41 Famil:evanyoeinfotech@email.com

**Criterion III** 31 | P a g e

# **MOU 6: GYANYOG INFOTECH**

# Gyanyog Infotech

#### 3. MISCELLENEOUS:

- The details for the efficacious implementation of this Memorandum of Understanding shall be jointly workout on manually acceptable terms within the parameters of the policies, rules and regulations of both the institutions.
- The parties to the memorandum may, by mutual consent, add, modify, amend, delete, review or revise any term(s) and condition(s) of this agreement.
- The intent and implementation of this Memorandum is SUBJECT to the policies of the respective states (in case of international agreements) and the laws of the land.
- d) The MoU shall remain in force for a period of 2 years from the date of its signature and seal, and may be terminated by either side by giving six months' notice to that effect in writing. However, notwithstanding the notice of intend to terminate the Memorandum, all rights, obligations and corresponding duties and subsisting therein shall be respected and mandated till the finalization and accomplishment thereof.
- The parties of this MoU undertake to treat as CONFIDENTIAL AND PRIVILEDGE information of the other institutions, which is so classified in advance. The terms of confidentiality and mode of disclosure shall be as per mutually acceptable
- This MoU shall require the ratification of the competent academic/ executive body of both the institutions.

Signed at Pune on the Friday day of 27/06/20

Authorized signatory on behalf of Annasaheb Magar Mahavidyalaya, Hadapsar, and Pune 28.

Name: Dr. Pandit N. Shelke

Designation: Principal

Sign & Se

PRINCIPAL nasaheb Magar Mahavidyalaya Hadapsar, Pune-411028.

Authorized Signatory on behalf of Gyanyog Infotech, Hadapsar, and Pune - 28.

Name: Suresh Patel

Designation: Center Directo

Sign & Seal:

Date: 27/11/2021

Witness: 1. Dr. A.B. Nimbalkar M

Add: 2nd Floor, Janu Niketan, S.No-299, Kamdhenu Estate, Opp Janseva Bank, Pune-Solapur road, Hadapsar, Pune A11028 Phone: 020-2600/640//41 Famil: avanyoginfotech@amail.com

# **MOU 6: GYANYOG INFOTECH**

# **Faculty Exchange Activity: Certificate Course On Pc Hardware**

**Activity: Student Notice** 

Pune District Education Association's Annasaheb Magar Mahavidyalaya, Hadapsar, Pune – 28 Department of Computer Science



#### Student Notice

All students of F.Y.B.Sc.(C.S.) Div. B are hereby informed that schedule for Certificate Course on PC Hardware Support Skill (30 lectures) commencing from 13th August 2019 to 13th September 2019 is as follows:

Day	Date	Batch A	Batch B
Tuesday	13-08-2019		
Wednesday	14-08-2019		
Friday	16-08-2019		
Tuesday	20-08-2019		
Wednesday	21-08-2019		
Thursday	22-08-2019		cov. i -1
Friday	23-08-2019	FY Lab	TY Lab
Tuesday	27-08-2019		2 00 - 5 00
Wednesday	28-08-2019	3.00 to 5.00 pm	3.00 to 5.00 pm
Thursday	29-08-2019		
Friday	30-08-2019		
Tuesday	03-09-2019		
Wednesday	04-09-2019		
Wednesday	11-09-2019		
Friday	13-09-2019		

Attendance is compulsory.

Course Cordinator

Co-ordinator IQAC Committee Annasaheb Magar Mahavidyataya,

HODVICE PRINTINGIPALIPAL Principal asaheb Magar Mahavidyalaya Hadapsar, Pune-411028.

PRINCIPAL Annasaheb Magar Mahavidyalaya Hadapsar, Pune - 411 023.

# **Activity: Student Notice**

Pune District Education Association's Annasaheb Magar Mahavidyalaya, Hadapsar, Pune - 28 Department of Computer Science



#### **Student Notice**

All students of F.Y.B.Sc.(C.S.) Div. A are hereby informed that schedule for Certificate Course on PC Hardware Support Skill (30 lectures) commencing from 19th December 2019 to 8th January 2020 is as follows:

Day	Date	Batch A	Batch B
Thursday	19-12-2019	(100 )	
Friday	20-12-2019		
Saturday	21-12-2019		
Monday	23-12-2019		
Tuesday	24-12-2019		
Monday	30-12-2019		
Tuesday	31-12-2019	FY Lab	TY Lab
Wednesday	01-01-2020	2.00	
Thursday	02-01-2020	3.00 to 5.00 pm	3.00 to 5.00 pm
Friday	03-01-2020		
Saturday	04-01-2020		
Monday	06-01-2020		
Tuesday	07-01-2020		
Wednesday	08-01-2020		

Attendance is compulsory.

Course Cordinato

IQAC Committee

Annasaheb Magar Mahavidyalaya, Hadapsar, Pune-28.

Vice Principal America Magar Manayka VICE PRINCIPAL

Annasaheb Magar Mahavidyalaya

VICE PRINCIPAL Hadapsar Manaya Hadapsar, Pune-411028.

# **Activity: Student Attendance Marks**

PC HARDWARE SUPPORT SKILLS TRAINING PROGRAM
TRAINING REPORT - STUDENTS (ATTENDANCE/SCORE)

Sr.no	Student Name	Attendance (out of 15)	Marks (out of 20)
1	Ranjan Dhumal	12	Absent
2	Jayesh Kadam	13	Absent
3	Nilesh Harale	15	11
4	Rahul Salve	7	Absent
5	Sumit Jagtap	8	Absent
6	Akanksha Salve	9	Absent
7	Sampada Tamhane	12	18
8	Chaitali Akhade	10	18
9	Bhagyashree Jadhav	10	17
10	Prerna Kalbhor	11	17
11	Akanksha Gaikwad	15	18
12	Chetan Kokade	15	17
13	Vishwajit Shelake	15	_ 17
14	Prasad Bodke	14	17
15	Omkar Mengde	14	17
16	Pratik Jagtap	15	17
17	Tejas Sangale	15	Absent
18	Raj Fuzalke	14	15
19	Rushikesh Jadhav	10	Absent
20	Yash Bhosale	15	17
21	Vaishanvi Swami	9	17
22	Rahul Bobade	12	15
23	Sachin Mullabade	1	Absent
24	Akanksha Pingale	13	15
25	Vaishanvi Dalvi	14	18
26	Pratik Sonawane	8	Absent
27	Diksha Choure	13	16
28	Ansari Tabbu	14	16
29	Laxmi Hulmaige	15	13
30	Utkarsha Kurhade	15	15
31	Viashanvi Mistry	15	13
32	Kshitija Hingane	15	15
33	Prajakta Chandane	15	15
34	Divya Alagi	15	15
35	Gayatri Dhamdhere	13	14
36	Pooja Chaudhari	13	14
37	Shreya Dhumal	15	18
38	Shubhangi Landge	15	18
39	Sakshi Ghule	15	14
40	Vaishanvi Ghule *	15	15
41	Shubhangi Pawar	13	14
42	Aadesh Thokale	15	15
43	Bharat Kale	15	16
44	Vaibhav Dabhade	15	17
45	Sachin kamble	9	Absent
46	Rushikesh Kokate	15	16
47	Ashish Nagargoje	15	17
48	Aakash Kuskar	15	17

Criterion III 35 | P a g e

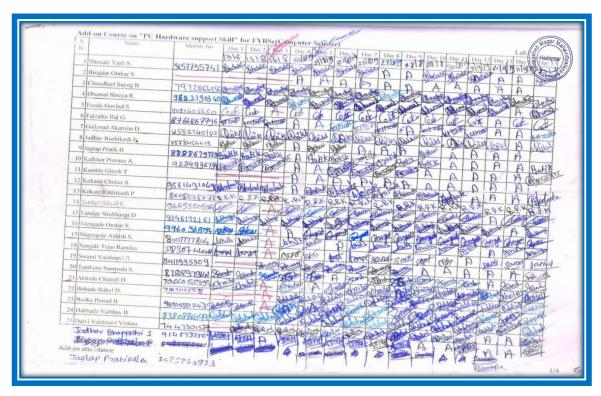
# **Activity: Student Attendance**

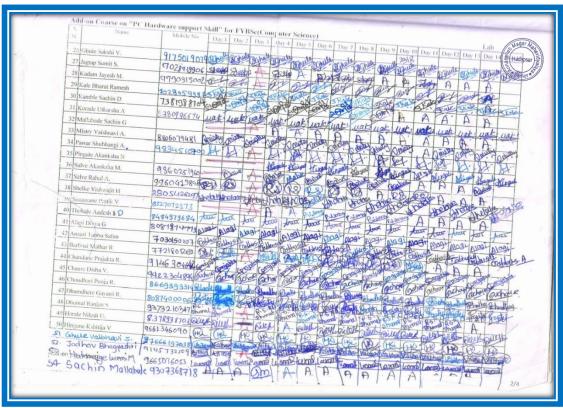
49         Govind Fasale         15         17         3         Hada           50         Suyog Chaudhari         15         17         Hada           51         Malhar Barbhai         11         Absent         Absent           52         Pratik Lavande         6         Absent         Absent           53         Pratiksha Jagtap         2         Absent         Absent           54         Shrushti Udamale         15         13           55         Nikita Jagtap         14         15           14         13	apsar Nidya
52         Pratik Lavande         6         Absent           53         Pratiksha Jagtap         2         Absent           54         Shrushti Udamale         15         13           55         Nikita Jagtap         14         15	apsar
52         Pratik Lavande         6         Absent           53         Pratiksha Jagtap         2         Absent           54         Shrushti Udamale         15         13           55         Nikita Jagtap         14         15	1.0011
52         Pratik Lavande         3         Absent           53         Pratiksha Jagtap         2         Absent           54         Shrushti Udamale         15         13           55         Nikita Jagtap         14         15	
53         Pratiksna Jagtap         2           54         Shrushti Udamale         15         13           55         Nikita Jagtap         14         15	nior
54 Shrushti Udamale	
55 Nikita Jagtap	
56 Sonali Mhetre	
57 Poonam Mnetre	
58 Chaitrali Kalbnor	
59 Rutuja Bansode	
60 Sharddha Khaire	
61 Supriya Jagtap	
62 Sakshi Mandlik 14 14	
63 Akanksha Dhalwade 15 15	
64 Rajnandini Shewale 15 - 15	
65 Sakshi Kalbhore 15 13	
66 Saraswati Suryawanshi 12 13	
67 Akash Jadhav 15 18	
68 Vishwabhushan 13 Absent	
69 Naushad Ansari 13 Absent	
70 Yogesh Shinde 15 18	
71 Pramod Mandlik 14 18	
72 Ritik Singh 15 19	
73 Ruturai Sarode 14 18	
74 Ajit Nawade 8 18	
75 Sanket Sawant 12 17	
76 Sagar Survwanshi 14 Absent	
77 Mayur Ghadge 14 15	
78 Ajay Soma 14 17	
79 Aaksh Deokar 4 Absent	
80 Rohan Shinde 8 15	
21 Aditya Holkar 12 18	
82 Aniket Deshmukh 11 18	
83 Pritam Kute 14 15	
84 Prajwal Chaudhari 13 Absent	
85 Suhash Takale 12 18	
86 Kiran Shinde 14 Absent	
97 Javesh Pol 15 18	
88 Padmakar Thorat 15 19	
88 Faumakar Morat	
89 Flashalt Guide 12 19	
90 Read Taylor 13 19	
91 Gadrav yeste 12 15	
92 Statical Helds 15 18	
95 Adityo Saint 15 15	
94 Michie Marchetta 14 16	
95 Differ Chikari	
90 Rushikesh Guare	
97 Sagar Survey 11 Absent	
98 Aditya Kadam 11 Abent 99 Ankita Dudhne 13 17	

Criterion III 36 | P a g e

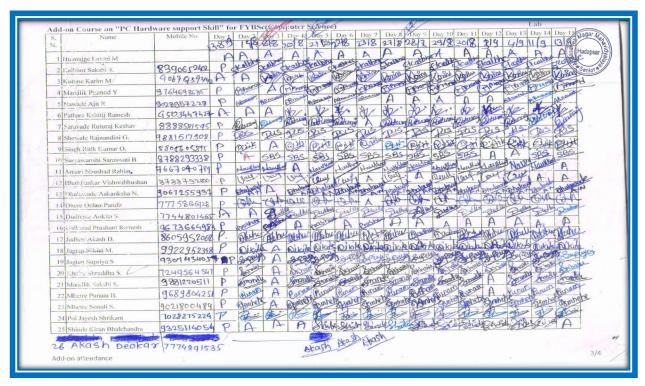


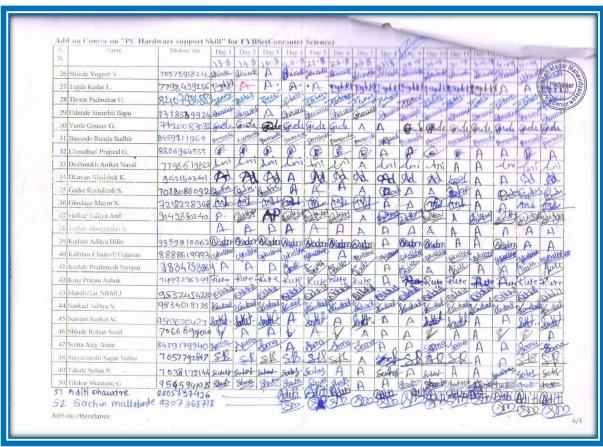
Criterion III 37 | P a g e



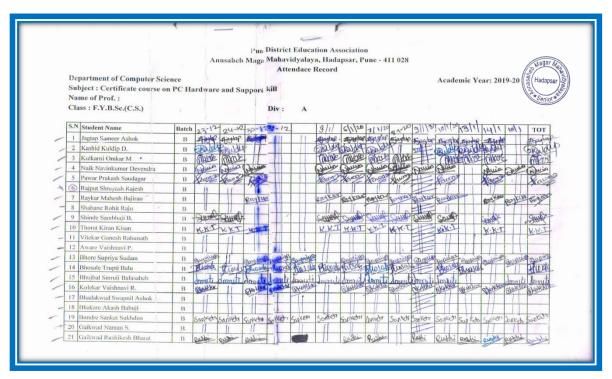


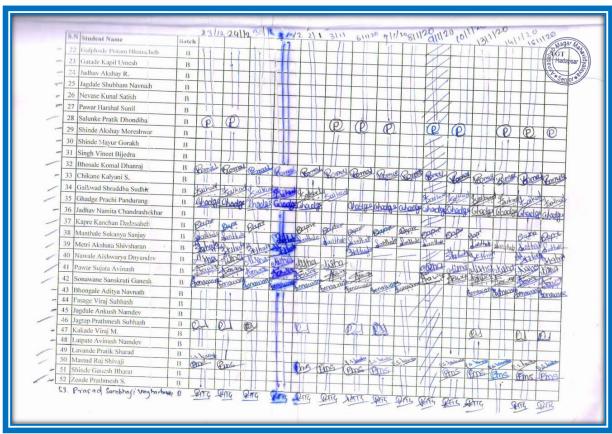
Criterion III 38 | P a g e



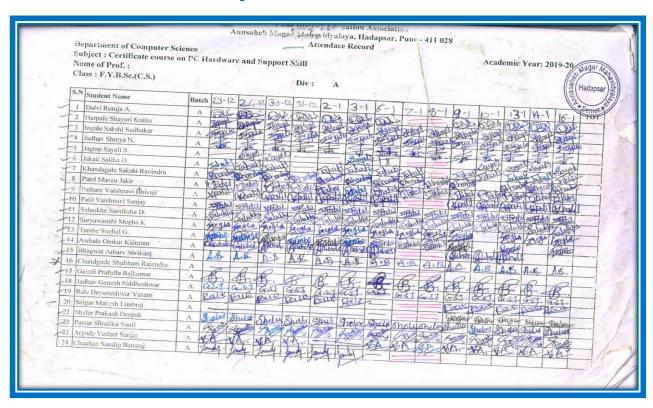


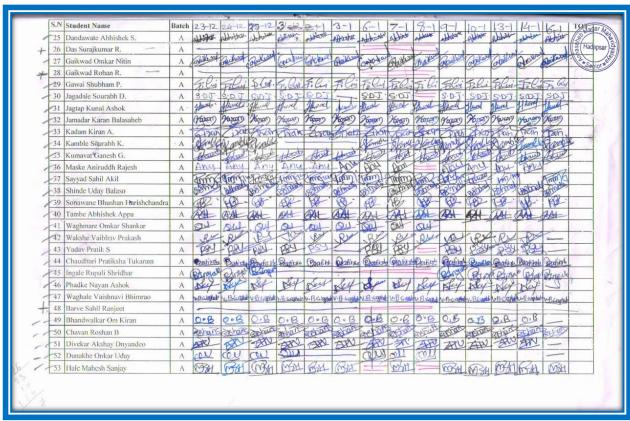
Criterion III 39 | P a g e





Criterion III 40 | P a g e



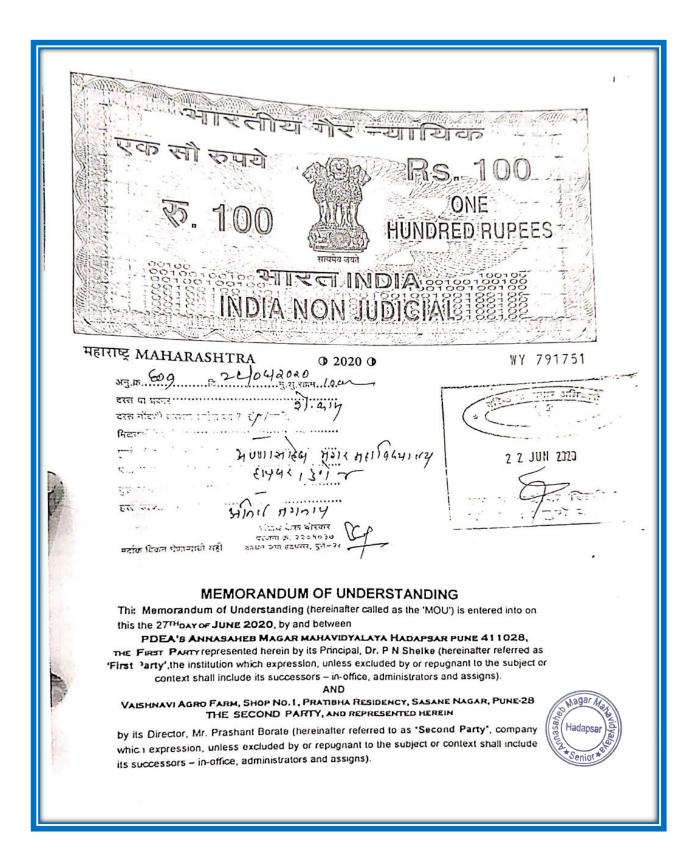


Criterion III 41 | P a g e

### **Activity: Sample Certificate**



Criterion III 42 | P a g e



Criterion III 43 | P a g e

## MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter called as the 'MOU') is entered into on this the 27<sup>rd</sup> DAY OF Name of Understanding (hereinafter called as the 'MOU') is entered into on this the 27<sup>rd</sup> DAY OF Name of Understanding (hereinafter called as the 'MOU') is entered into on this the 27THDAY OF—NAME OF JUNE 2020 Two Thousand and Fifteen (27/06/2020). by and between

PDEA'S ANNASAHEB MAGAR MAHAVIDYALAYA HADAPSAR PUNE 411028, THE

Name of Competent Authority / Representative (hereinafter referred as 'First Party' the institute of Competent Authority / Representative (hereinafter referred as 'First Party' the institute of Competent Authority / Representative (hereinafter referred as 'First Party' the institute of Competent Authority / Representative (hereinafter referred as 'First Party' the institute of Competent Authority / Representative (hereinafter referred as 'First Party') the institute of Competent Authority / Representative (hereinafter referred as 'First Party') the institute of Competent Authority / Representative (hereinafter referred as 'First Party') the institute of Competent Authority / Representative (hereinafter referred as 'First Party') the institute of Competent Authority / Representative (hereinafter referred as 'First Party') the institute of Competent Authority / Representative (hereinafter referred as 'First Party') the institute of Competent (hereinafter referred as 'First Party') the institute of Competent (hereinafter referred as 'First Party') the institute of Competent (hereinafter referred as 'First Party') the institute of Competent (hereinafter referred as 'First Party') the institute of Competent (hereinafter referred as 'First Party') the institute of Competent (hereinafter referred as 'First Party') the institute of Competent (hereinafter referred as 'First Party') the institute of Competent (hereinafter referred as 'First Party') the institute of Competent (hereinafter referred as 'First Party') the institute of Competent (hereinafter referred as 'First Party') the institute of Competent (hereinafter referred as 'First Party') the institute of Competent (hereinafter referred as 'First Party') the institute of Competent (hereinafter referred as 'First Party') the institute of Competent (hereinafter referred as 'First Party') the institute of Competent (hereinafter referred as 'First Party') the institute of Competent (hereinafter referred as 'First Party') the competent (hereinafter referred as 'First P Party', the institution which expression, unless excluded by or repugnant to the subject or context shall be to be subject or context shall be subject sha context shall include its successors – in-office, administrators and assigns).



## VAISHNAVI AGRO FARM, SHOP NO.1, PRATIBHA RESIDENCY, SASANE NAGAR, PUNE-

THE SECOND PARTY, AND REPRESENTED HEREIN

by its Director, Mr. Prashant Borate (hereinafter referred to as "Second Party", company which expression, unless excluded by or repugnant to the subject or context shall include its successors - in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party') as

#### WHEREAS:

- A) First Party is a Higher Educational Institution named:
  - (i) PDEA'S ANNASAHEB MAGAR MAHAVIDYALAYA HADAPSAR PUNE 41 1028
- B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.
- The Parties intent to cooperate and focus their efforts on cooperation within area of C) Skill Based Training, Education and Research.
- Both Parties, being legal entities in themselves desire to sign this MOU for D) advancing their mutual interests.
- VAISHNAVI AGRO FARM, SHOP NO.1, PRATIBHA RESIDENCY, SASANE NAGAR, HADAPSAR, PUNE-28, the Second Party is engaged in Business, Manufacturing, Skill Development, Education and R&D Services in the fields of -Mushroom certification offering to various food industries. Hotels, caterars, Self help groups, schools, colleges and related fields
- VAISHNAVI AGRO FARM, SHOP NO.1, PRATIBHA RESIDENCY, SASANE NAGAR, HADAPSAR, PUNE-28 , the Second Party is autonomous Company.
  - G) VAISHNAVI AGRO FARM, SHOP NO.1, PRATIBHA RESIDENCY, SASANE

**Criterion III** 44 | Page



Nagar A

Hadapsa

(First Party and Second Party are hereinafter jointly referred to as 'Party') WHEREAS:

- First Party is a Higher Educational Institution named: () PDEA'S ANNASAHEB MAGAR MAHAVIDYALAYA HADAPSAR
- First Party & Second Party believe that collaboration and cooperation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced
- The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education and Research.
- Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interests.
- E) VAISHNAVI AGRO FARM, SHOP NO.1, PRATIBHA RESIDENCY, SASANE NAGAR, HADAPSAR, PUNE-28, the Second Party is engaged in Business, Manufacturing, Skill Development, Education and R&D Services in the fields of -Mushroom certification offering to various food industries, Hotels, caterars, Self help groups, schools, colleges and related fields
- F) VAISHNAVI AGRO FARM, SHOP NO.1, PRATIBHA RESIDENCY. SASANE NAGAR, HADAPSAR, PUNE-28 the Second Party is autonomous Company.
- G) VAISHNAVI AGRO FARM, SHOP NO.1, PRATIBHA RESIDENCY, SASANE NAGAR, HADAPSAR, PUNE-28 Is located in Hadapsar, No other branches are there.

NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERE TO AGREE AS FOLLOWS:

Criterion III 45 | Page

- 2.4 Research and Development: Both Parties have agreed to carry out the food science and nutrition, product development activities.

  2.5 Skill Development Product development activities.
- Skill Development Programs: Second Party to train the students of First Party industry ready.
- 2.6 Guest Lectures: Second Party to extend the necessary support to deliver guestlectures to the students of the First Party on the technology trends and in house requirements.
- 2.7 Faculty Development Programs: Second Party to train the Faculties of FirstParty for imparting training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.
- Placement of Trained Students: Second Party will actively engage to help the delivery of the training and placement of students of the First Party into internships/jobs; and will facilitate placements for at least 20% of the students.

  The Second Party will itself absorb at least 10 percentage of the trained students.
- 2.9 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programmes on the terms specified herein
- 2.10 There is no financial commitment on the part of the PDEA'S ANNASAHEB MAGAR MAHAVIDYALAYA HADAPSAR PUNE 41 1028, the First Party to take up any programme mentioned in the MoU. If there is any financial consideration, it will be dealt separately.

#### CLAUSE 3 INTELLECTUAL PROPERTY

Nothing contained in this MOU shall, by express grant, implication, Estoppel or otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of the other Party.

#### CLAUSE 4 VALIDITY

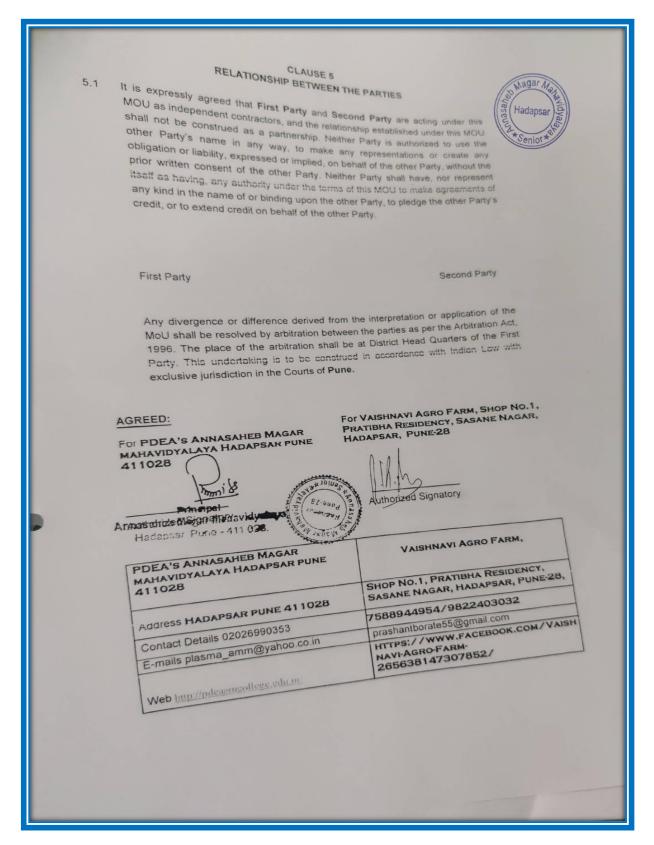
4.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during which period VAISHNAVI AGRO FARM, SHOP NO.1, PRATIBHA RESIDENCY, SASANE NAGAR, HADAPSAR, PUNE-28, the Second Party, as the case may be, will take effective steps for implementation of this MOU. Any act on the part of Training Partner or VAISHNAVI AGRO FARM, HADAPSAR, the Second Party after termination of this Partner or VAISHNAVI AGRO FARM, HADAPSAR, the Second Party after termination of this Partner or VAISHNAVI AGRO FARM, HADAPSAR, the Second Party after termination of this MOU extension of this MOU

#### CLAUSE 1 CO-OPERATION

- 1.1 Both Parties are united by common interests and objectives, and they Hadapsar establish channels of communication and co-operation that will promote and advance their respective operations within the Institution and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one
- 1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to them in developing suitable teaching / training systems, keeping in mind the needs of the industry, the Second Party.
- 1.3 The general terms of co-operation shall be governed by this MOU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

#### **CLAUSE 2** SCOPE OF THE MOU

- The budding graduates from the institutions could play a key role in technological up-gradation, innovation and competitiveness of an industry. Both parties believe 2.1 that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.
- Curriculum Design: Second Party will give valuable inputs to the First Party inteaching / training methodology and suitably customize the curriculum so that the 2.2 students fit into the industrial scenario meaningfully.
- Industrial Training & Visits: Industry and Institution interaction will give an insightin to the latest developments / requirements of the industries; the Second 2.3 Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in industrial Training Programs for the First Party. The industrial training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its Lahs



Criterion III 48 | P a g e

# Faculty Exchange Activity: Certificate Course in Mushroom Cultivation Activity: Student Notice

Date: 21.08.2020



#### P.D.E.A.s

Annasaheb Magar Mahavidyalaya, Hadapsar, Pune -411028

#### Notice

All students from S.Y.B.Sc are hereby informed that from 25.08.2020 Department of Botany organizing online "Certificate Course in Mushroom Cultivation". This course is free of cost for all students from our college.

The Certificates will be provided to the students with 100% attendance. All students have to submit the screenshots of their attendance at the end of the course.

IQAC Co-ordinator

Asst. Co-ordinator

Co-ordinator

Head

DR. Joshi R.P Co-ordinator IQAC Committee

IOAC Committee Annasaheb Magar Mahavidyalaya, Hadapsor, Pune-28. Dr. Shirurkar D.D.

Dr. Kiran Ranadive sy Department.

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### **Activity: Structure and syllabus**

#### Pune District Education Association's

#### Annasaheb Magar Mahavidyalaya

Hadapsar, Pune-411028, Maharashtra, India



"Certificate Course in Commercial Mushroom Cultivation" 2020-2021

**1.**The **Certificate Course in Commercial Mushroom Cultivation**" is focused on providing undergraduate studies which would be aimed at incorporating special occupation role along with broad based general education.

The programme is structured as follows

Sr. No.	Award	Duration
1.	Certificate Course in Commercial	25.08.2020 to
		25.11.2020
	Mushroom Cultivation	(03 Months)

#### 2. Vision-

The institute aims to be center of excellence in training, research, outreach and consultancy services in mushroom cultivation technology. The institute is situated at the border of Pune city and agricultural land. As we all know that because of the COVID -19, World is facing the problems in almost all areas. Just to boost the immunity one must keep the habit of consuming mushrooms for good immunity. Through this course we will be able to provide the students a basic as well as applied technology of mushroom cultivation which will make them stand on their own feet at the same time can develop the self-dependent individuals. The mushroom cultivation technology may provide one area which may fulfill the global needs of food.

#### 3. Mission

The Certificate course Programme in **Commercial Mushroom Cultivation** will be aimed to create and share knowledge to ensure safe, healthy and self-dependent business for the betterment of the human beings. The education and training will supports the well being and prosperity of people as well as the environment.

#### 4. Objectives-

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### **Activity: Structure and syllabus**

- To ensure students have adequate skills, make them work ready, enhance employability of students, and thus make them part of global workforce.
- To incorporate requirements of various mushroom industries into its curriculum.
- To provide adequate education, training, research and development services in the 'Mushroom industry'.
- To identify and provide the skills required by the 'Mushroom industry'.
- To create, select and apply appropriate processing technology/techniques, resources, modern processing tools to improve the quality, safety and the shelf life of mushrooms.
- To conduct and undertake investigations of problems of including design of processing technology for various type mushroom food, mushroom food quality and safety aspects and interpretation of data in order to provide valid conclusions.
- To award the Certificate Course in Commercial Mushroom Cultivation" from Savitribai Phule Pune University.

#### 5. Teaching Methods proposed

The certificate course will imply variety of Teaching aids to enhance the student 'skills:

#### 5.i.Lecture Methods

 Lectures will be there per week with a dedicated trainers and industrialists for each course.

#### 5.ii.Laboratory Work

There is practical course assigned to each month of study. Twelve lectures can be conducted per week. The practical course and project will be related to innovative methods in mushroom cultivation for better understanding of concepts.

#### 5 iii. Experiential Learning

Field trips will be arranged for the students for visual understanding of actual process in industrial food processing. Students also undergo internships in mushroom cultivation units from which they learn every details of mushroom cultivation at industrial level in mushroom technology.

#### 5. iv. Participative Learning

Participative learning methodology will be conducted for the holistic development of the students. These activity-based learning modes will involve:

Group discussion on various syllabus related topics

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### **Activity: Structure and syllabus**

- Debate on relevant topics like Mushroom and health, medicinal mushroom, mushroom in diet.
- Seminar and extempore for presentation of topics from syllabus
- · Quiz on Quality control in Mushroom technology

#### 5. v. ICT in Teaching-Learning

- LCD projector with white board and LCD TV facility will be provided for better understanding of syllabus contents.
- PowerPoint presentations will be employed for teaching purposes. Video lectures by different eminent teachers will be made available to the students during practical sessions.
- Computer interfaced experiments are planned for the faculty and students as to learn industrial applications.

#### 5.vi. Google classroom

 Google classroom facility is used by the faculty. Enrollment of students for the google classroom will be accomplished. Sharing of teaching-learning materialand PowerPoint presentations will be attained through google classroom.

#### 6.Evaluation Methods

The evaluation of progress of students is being planned by regular classroom tests, group discussions and presentations by the mentors. Assigned. In midst of COVID19 situation,

MOODLE platform is being prepared for teaching, learning and evaluation process.

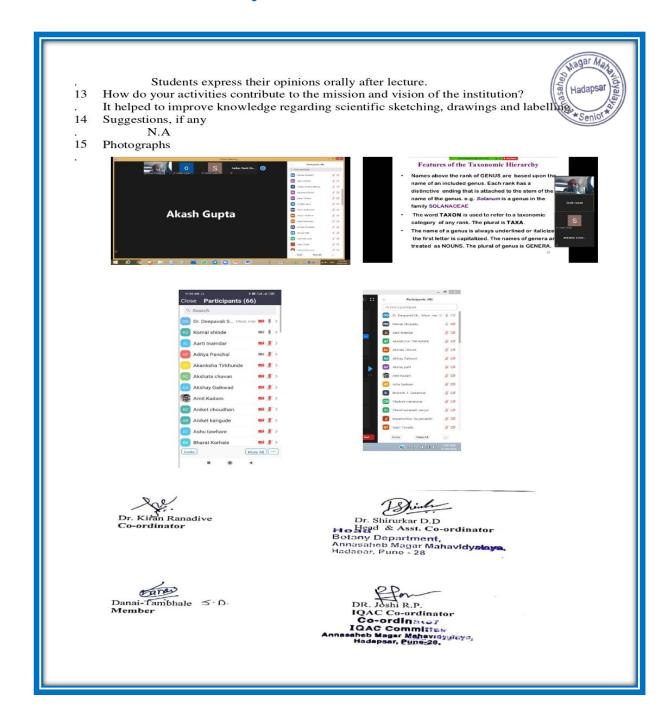
- 7. Mushroom Industries for undergoing Industrial Training:
- a. Vaishnavi Agro Farm, Hadapsar

#### 8. Intended learning outcomes of the course

The Intended Learning Outcomes(ILO's) are listed under three headings:

- i. Knowledge and Understanding
- ii. Practical Skills and
- Ii. Capability/Transferable Skills
  - ➤ i. Knowledge and Understanding of:
    - -the importance of safety regulations, cost control and labor laws
    - -the safe, healthy and appealing food supply
  - ii. Practical Skills

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Criterion III 53 | P a g e

### **Activity: Course Schedule**

## PDEA's Annasaheb Magar Mahavidyalaya Guest lecture for students / Activity Audit Report Year 2020-2021 Department of Botany

Duration: 25/08/2020 to 25/11/2020

- 1. Title of Workshop: "Certificate course in mushroom cultivation"
- 2. Occasion: Birthday celebration of Hon. Sharadchandraji Pawar.
- 3. Names of the resource person: **Dr. Shirurkar D.D, Dr. Ranadive K. R. and Dr. Danai- Tambhale S.D.**
- 4. Names of students of core committee: F.Y.B.Sc, S.Y.B.Sc & T.Y.B.Sc
- Attach list of student members of the activity group (Faculty Wise and Degree/ Junior ):
   Attendance list attached.
- 6. Aims and objectives of the Lecture:

To generate the awareness about commercial mushroom cultivation.

- 7. Was the activity calendar prepared? Yes / No: Yes
- 8. Functions / duties allotted to committee members

1.	Welcome committee:	Dr. Shirurkar D.D.
2.	Organization Committee:	Dr. Ranadive K.R &
		Dr. Danai-Tambhale S.D.
3.	Hall arrangement committee:	-

- 9. Whether other members were co-opted? Yes/No if yes, list names and duties allotted.: N.A
- 10 Participation of audience

No. of Students: 63 (**Boys** -15, **Girls** – **48**)

No. of Staff: 03

No. of Committee Members: 03

- 11 Activity report submitted to
  - a) Principal / Vice Principal / Registrar: Yes
    - b) HODS for monthly report: Yes
    - c) Magazine: Yes
    - d) IQAC: Yes
- 12 Mode of feedback from students/teacher and action taken on it to improve.

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### **Activity: Course Schedule**

- All the general theory papers shall carry 40 marks and all vocational theorypapers shall carry 50 marks.
- Evaluation of the performance of the students in theory shall be on the basis of semester examination as mentioned above.
- Question paper will be set in the view of entire syllabus preferably coveringeach unit of the syllabus.
- · Nature of question paper for Theory
  - i. There will be seven questions carrying equal marks.
  - ii. Students will have to solve any five questions.
  - Q. No. 1 : Short answer type question with internal choice (Two out of Three)
  - Q. No. 2 to Q. No. 6: Long answer type questions
  - Q. No. 7: Short Notes with internal choice (Two out of Three)
- B) **Practical**: Evaluation of the performance of the students in practical shall be on the basis of semester examination (Internal assessment at the end of Semester I and II and external examination at the end of Semester I and II as mentioned separately in each paper.

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#### P.D.E.A.s Annasaheb Magar Mahavidyalaya, Hadapsar, Pune -411028



#### Presenty records of the lectures

"Certificate Course in Commercial Mushroom Cultivation"

(2020-2021)

Sr. No.	Date and Time of the lecture	Present students	Topics taken	Zoom link with code	Name of the Faculty
			Dr. Ranadive K.R		
1.	17.09. 2020 11.00am	51	CCMC-01- Introduction to Mushrooms and technology,	Join Zoom Meeting https://us04web.zoom.us /j/79922317103?pwd=M TNpUU5qV3M3YTA3d 3VlcHFGeGlOUT09 Meeting ID: 799 2231 7103 Passcode: 1hz1R3	Dr. Ranadive K.R.
2.	19.09.2020 at 12.40	51	Mushroom science,	Join Zoom Meeting https://us04web.zoom.us /j/74583886112?pwd=Y kVseUVOQ3hvbUdW WjBVR3V5dVViQT09  Meeting ID: 745 8388 6112 Passcode: 9TvMpV	Dr. Ranadive K.R.
3.	24.9.2020 5.30pm	18	History and Present scenario,	https://us04web.zoom.us /j/78773491270?pwd=T 2lhS3FYdFdzQy9iMkN JR21TT01Edz09 Meeting ID: 787 7349 1270 Passcode: 6ux7kg	Dr. Ranadive K.R.
4.	03,09. 2020 12:00 AM	62	Preparation of Spawn	Join Zoom Meeting https://us04web.zoom.us /j/71010257916?pwd=R GcwQ3hvNE01WUFqc GQyUWFvdTE4dz09	Dr. Ranadive K.R.

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				Meeting ID: 710 1025 7916 Passcode: 7AtCDu	Hadapsar Mary Hadapsar No. 18 Senior *
5.	10.9.2020 12:00 AM	51	Preparation of Pure Culture and Spawn	https://us04web.zoom.us /j/78826197685?pwd=el REazJQRTFjSHZtdUpC VWtNYVdMUT09 Meeting ID: 788 2619 7685 Passcode: 3wcXyu	Dr. Ranadive K.R.
6.	30.09.2020 1.20 to 2.00pm	43	Basics of Mushroom Cultivation,	https://us04web.zoom.us /j/79637387126?pwd=S VZ0UnY0bnRIVmRkZ UhEc09ZTGhHUT09 Meeting ID: 796 3738 7126 Passcode: 6mZ5g1	Dr. Ranadive K.R.
7.	07.10.2020 1.15	44	CCMC-02- How to develop the infrastructure for cultivation?	https://us04web.zoom.us /j/74166889829?pwd=d DFzajMvbElvbjlqaGw0 TUo0T0VTZz09 Meeting ID: 741 6688 9829 Passcode: 72ttng	Dr. Ranadive K.R.
8.	14.10.2020 at 1.20pm	49	Low cost mushroom farm design for Indian conditions	https://us04web.zoom.us /j/75906768961?pwd=c 31PNFphTWx1cGpiSHh meUE3eEU2QT09 Meeting ID: 759 0676 8961 Passcode: 6yh6Kv	Dr. Ranadive K.R.
9.	21.10.2020 at 1.20pm	40	, , Preservation technology of mushroom, Methods of Composting, Mushroom Transportation and shelf life , Mushroom quality enrichment	https://us04web.zoom.us /j/77659305010?pwd=d G5rSFpEeXVXem9oRE 83eEowRGQvdz09 Meeting ID: 776 5930 5010 Passcode: 4Uu49L	Dr. Ranadive K.R.
10.	4.11.2020 at 1.15pm	35	CCMC-03- Medicinal mushroom	https://us04web. zoom.us/j/77611928608	Dr. Ranadive K.R.

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			and its nutritional values	?pwd=YlJSL01OOHhy ZEY1VUs1MUpsQmJ3 UT09 Meeting ID: 776 1192 8608 Passcode: bWXb5u	Hadapsar Assertion Asserti
11.	11.11.2020	34	Mushroom Crop Management	https://us04web.zoom.us /j/78624206891?pwd=Y UJxK21QaGV6U08yQ3 hlSk8xWFdEdz09 Meeting ID: 786 2420 6891 Passcode: N4kPW5	Dr. Ranadive K.R.
12.	23.11.2020 at 1.20	30	Cultivation Methods of Pleurotus Part 1	https://us04web.zoom.us /j/75846949023?pwd=Z 2RUZnZqUU5PaG9FSn dnRVZOTm9zdz09 Meeting ID: 758 4694 9023 Passcode: qc5MHr	Dr. Ranadive K.R.
13.	25.11.2020 at 1.20	15	Cultivation Methods of <i>Pleurotus Part 2</i> ,	https://us04web.zoom.us /j/78145569806?pwd=b 2swVHJtaXlvN0dESko 3RWxuNkdQUT09 Meeting ID: 781 4556 9806 Passcode: Mcs23P	Dr. Ranadive K.R.
			Dr. Sunita Danai-Tam	bhale	
14.	23.09.2020	59	Cultivation Methods of Pleurotus Part 3,	Zoom Meeting https://us04web.zoom.us /j/5210307982?pwd=aU xsajAyUnhmbFNlTlgyU VpPeXBuUT09 Meeting ID: 521 030 7982, Passcode: 1234	Dr. Sunita Danai- Tambhale 1
15.	25.09,2020	48	Cultivation Methods of Pleurotus Part 4	Zoom Meeting https://us04web.zoom.us /j/5210307982?pwd=aU xsajAyUnhmbFNlTlgyU VpPeXBuUT09	Dr.Sunita Danai- Tambhale 2

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					Magar Ma
				Meeting ID: 521 030 7982, Passcode: 1234	Wase (Hadapsar)
16.	01.10.2020	57	Cultivation Methods of <i>Pleurotus 5</i>	Join Zoom Meeting https://us04web.zoom.us /j/5210307982?pwd=aU xsajAyUnhmbFNITlgyU VpPeXBuUT09 Meeting ID: 521 030 7982, Passcode: 1234	Dr. Sumina Danat- Tambhale 3
17.	06.10.2020	43	Cultivation Methods of Voivariella volvacea Part 1	Zoom Meeting https://us04web.zoom.us /j/5210307982?pwd=aU xsajAyUnhmbFNITlgyU VpPeXBuUT09 Meeting ID: 521 030 7982., asscode: 1234	Dr. Sunita: Sunita Danai- Tambhale 4
18.	08.10.2020	58	Cultivation Methods of Voivariella volvacea Part 2	Zoom Meeting https://us04web.zoom.us /j/5210307982?pwd=aU xsajAyUnhmbFNlTlgyU VpPeXBuUT09 Meeting ID: 521 030 7982, Passcode: 1234	Dr. Sunita: Sunita Danai- Tambhale 5
19.	9.10. 2020	51	Cultivation Methods of Voivariella volvacea Part 3	Zoom Meeting https://us04web.zoom.us /j/5210307982?pwd=aU xsajAyUnhmbFNlTlgyU VpPeXBuUT09 Meeting ID: 521 030 7982, Passcode: 1234	Dr. Sunita Danai- Tambhale 6
20.	10. 10, 2020	53	Cultivation Methods of Voivariella volvacea Part 4	Zoom Meeting https://us04web.zoom.us /j/5210307982?pwd=aU xsajAyUnhmbFNITlgyU VpPeXBuUT09 Meeting ID: 521 030 7982, Passcode: 1234	Dr. Sunita Danai- Tambhale 7
21.	22.10. 2020	52	Cultivation Methods of Agaricus bisporus Part 1	Zoom Meeting https://us04web.zoom.us /j/5210307982?pwd=aU xsajAyUnhmbFNITlgyU VpPeXBuUT09 Meeting ID: 521 030 7982, Passcode: 1234	Dr. Sunita Danai- Tambhale
22.	25/08/2020	66	Dr. Shirurkar D. I Cultivation Methods	D. Time: Aug 25, 2020 10:50 AM	Dr. Shirurkar

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					Magar
			of Agaricus bisporus Part 2	India https://us04web.zoom.us/j/ 9488126417?pwd=R2NJNEZK eHpkNmZvS0hNQ05yUnlBQT 09 Meeting ID: 948 812 6417 Passcode: 873ErU	D. Seniot &
23.	27/08/2020	54	Cultivation Methods of Agaricus bisporus Part 1	Time: Aug 27, 2020 11:59 AM India https://us04web.zoom.us/j/ 9488126417?pwd=R2NJNEZK eHpkNmZvS0hNQ05yUnlBQT 09 Meeting ID: 948 812 6417 Passcode: 873ErU	Dr. Shirurkar D. D.
24.	31/08/2020	49	Cultivation Methods of Agaricus bisporus Part 2	Topic: Dr. Deepavali Shirurkar's Zoom Meeting Time: Aug 31, 2020 10:50 AM India Join Zoom Meeting https://us04web.zoom.us/j/ 9488126417?pwd=R2NJNEZK eHpkNmZvS0hNQ05yUnlBQT 09 Meeting ID: 948 812 6417 Passcode: 873ErU	Dr. Shirurkar D. D.
25.	01/09/2020 & 07/09/2020	49	Cultivation Methods of Agaricus bisporus Part 3 & Part 4	Time: Sep 1, 2020 10:50 AM India https://us04web.zoom.us/j/9488126417?pwd=R2NJNEZK eHpkNmZvS0hNQ05yUnlBQT 09 Meeting ID: 948 812 6417 Passcode: 873ErU, Time: Sep 7, 2020 10:50 AM India https://us04web.zoom. us/j/9488126417?pwd=RXFRSjJzOEtMMWNra3c reDRScVNpZz09 Meeting ID: 948 812 6417 Passcode: 1234	Dr. Shirurkar D. D.
26.	08/09/2020	52	Cultivation Methods of Auricularia Part 1,	Time: Sep 8, 2020 10:50 PM India https://us04web.zoom. us/j/9488126417?pwd= RXFRSjJzOEtMMWNra3c	Dr. Shirurkar D. D.

Criterion III 60 | P a g e

					Magar Ma
				reDRScVNpZz09 Meeting ID: 948 812 6417 Passcode: 1234	Hadapsar Widy
27.	14/09/2020 & 15/09/2020	53	Cultivation Methods of Auricularia Part 2 and Part 3	Time: Sep 14, 2020 10:50 AM India Join Zoom Meeting https://us04web.zoom. us/j/9488126417?pwd= RXFRSjJzOEtMMWNra3c reDRScVNpZz09 Meeting ID: 948 812 6417 Passcode: 1234, Time: Sep 15, 2020 10:50 AM India Join Zoom Meeting https://us04web.zoom. us/j/9488126417?pwd= RXFRSjJzOEtMMWNra3c reDRScVNpZz09 Meeting ID: 948 812 6417 Passcode: 1234	Dr. Shirurkar D. D.
28.	Practical's based on Pleurotus  10:50 AM India Join Zoom Meet https://us04web us/j/948812641' RXFRSjJzOEtMM reDRScVNpZz09 Meeting ID: 948 6417		Time: Sep 21, 2020 10:50 AM India Join Zoom Meeting https://us04web.zoom. us/j/9488126417?pwd= RXFRSjJzOEtMMWNra3c reDRScVNpZz09 Meeting ID: 948 812	Dr. Shirurkar D. D.	
29.	22/9/2020	60	CCMC-05- Industrial Visit and its focus and Drying skills in mushroom technology	Time: Sep 22, 2020 10:50 PM India  Join Zoom Meeting https://us04web.zoom. us/j/9488126417?pwd= RXFRSjJzOEtMMWNra3c reDRScVNpZz09  Meeting ID: 948 812	Dr. Shirurkar D. D.

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				6417 Passcode: 1234	Magar
30.	12/10/2020	48	CCMC-06- Mushroom survey of the sellers, Agaricus bisporus, Auricularia, Voivariella volvacea Mushroom recepies Mushroom products Marketing skills in mushroom cultivation, Harvesting skills in mushrooms,	Time: Oct 12, 2020 01:20 PM Mumbai, Kolkata, New Delhi  Join Zoom Meeting https://us04web.zoom. us/j/9488126417?pwd= RXFRSjJzOEtMMWNra3c reDRScVNpZz09  Meeting ID: 948 812 6417 Passcode: 1234	Dr. Shirurkar D. D.

Co-ordinator IOAC Committee
Annasaheo Wagar Mahavidyalaya,
Hadapser, Pune-28.

Dr. Danai-Tambhale SD.

Dr. Rinadive K.R. Dr. Shirurkar D.D.

Co-ordinal Botony Department,

Annasaleb Magar Mahavidyalara

Hadapar, Pune - 28

**Criterion III** 62 | P a g e

### **Activity: Course Credit Distribution**

### Certificate Course in Commercial mushroom Cultivation Proposed Course Structure (2020-2021)

# Magar Magar

#### **Credit Distributions**

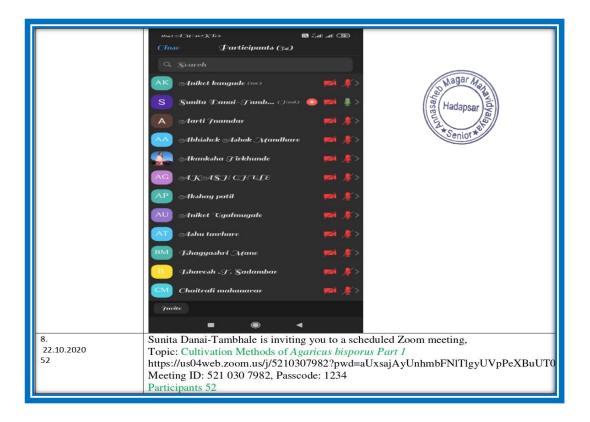
Sr. No.	Name of the course	Credit s	Contact sessions- Theory	Contact sessions- Practical	Total Credits
1	CCMC-01- Introduction to Mushrooms and technology, Mushroom science, History and Present scenario, Basics of Mushroom Cultivation, Preparation of Pure Culture and Spawn		05	-	
2	CCMC-02- How to develop the infrastructure for cultivation?, Low cost mushroom farm design for Indian conditions, Preservation technology of mushroom, Methods of Composting, Mushroom Transportation and shelf life, Mushroom quality enrichment	01	05	-	01
3	CCMC-03- Medicinal mushroom and its nutritional values, Mushroom Crop Management, Cultivation Methods of <i>Pleurotus</i> , Cultivation Methods of <i>Agaricus bisporus</i> , Cultivation Methods of <i>Auricularia</i> , Cultivation Methods of <i>Voivariella volvacea</i>		05	-	
4	CCMC-04- Practical's based on <i>Pleurotus</i> , <i>Agaricus</i> bisporus, <i>Auricularia</i> , <i>Voivariella volvacea</i> , Mushroom recepies, Mushroom products		-	05	8
5	CCMC-05- Industrial Visit1 and 2	1	-	05	8
6	CCMC-06- Mushroom survey of the sellers, Marketing skills in mushroom cultivation, Harvesting skills in mushrooms, Drying skills in mushroom technology	01	-	05	01
	Total	02	15	15	02

Dr. Kiran Ranadive Co-ordinator

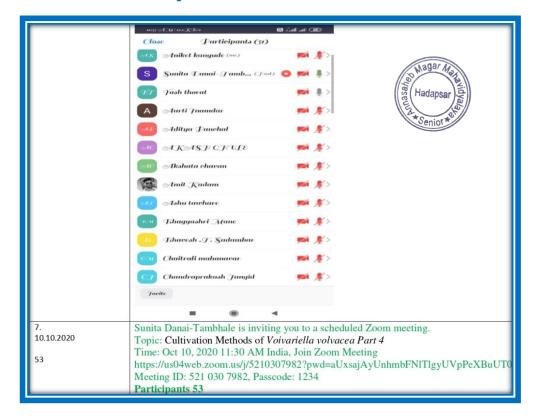
Dr. Shirurkar D.D
Head & Asst. Co-ordinator
Bolony Department,
Annasaheb Magar Mahavidyataya,
Hadapar, Pune - 28

Danai-Tambhale 5.D. Member

DR. Joshi R.P.
IQAC Co-ordinator
Co-ordinator
IQAC Committee
Annasaheb Magar Mahavidyaten

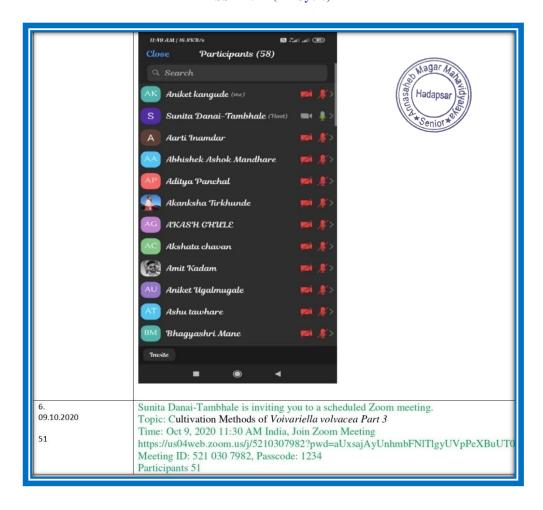


Criterion III 64 | P a g e

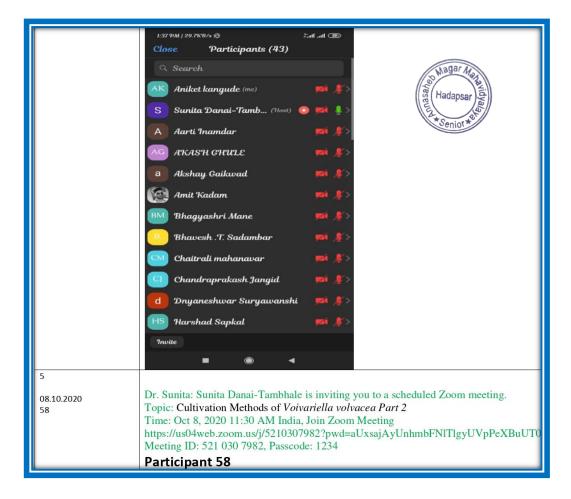


Criterion III 65 | P a g e

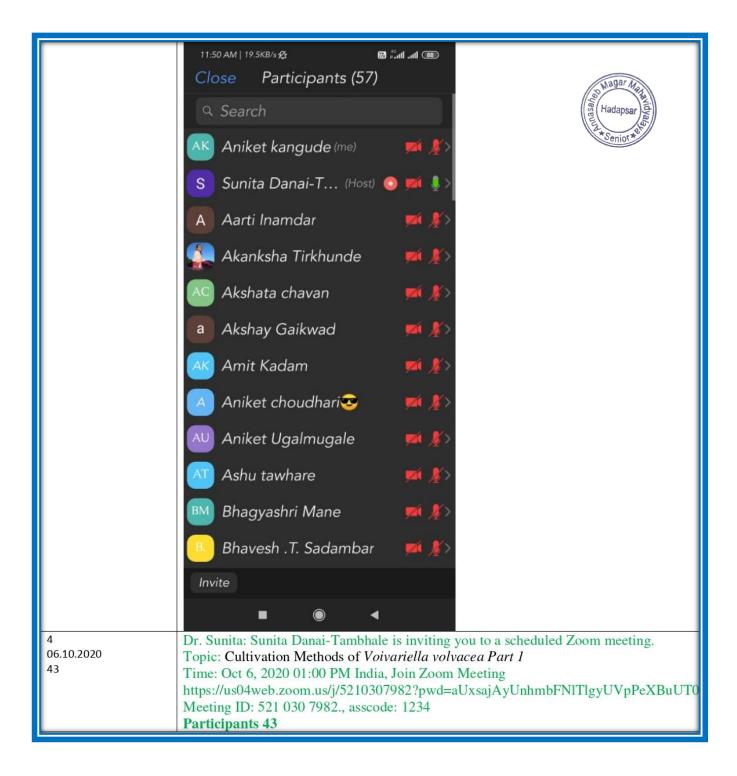
#### PDEA's Annasaheb Magar Mahavidyalaya, Hadapsar, Pune-28 SSR 2024 (4<sup>th</sup> Cycle)



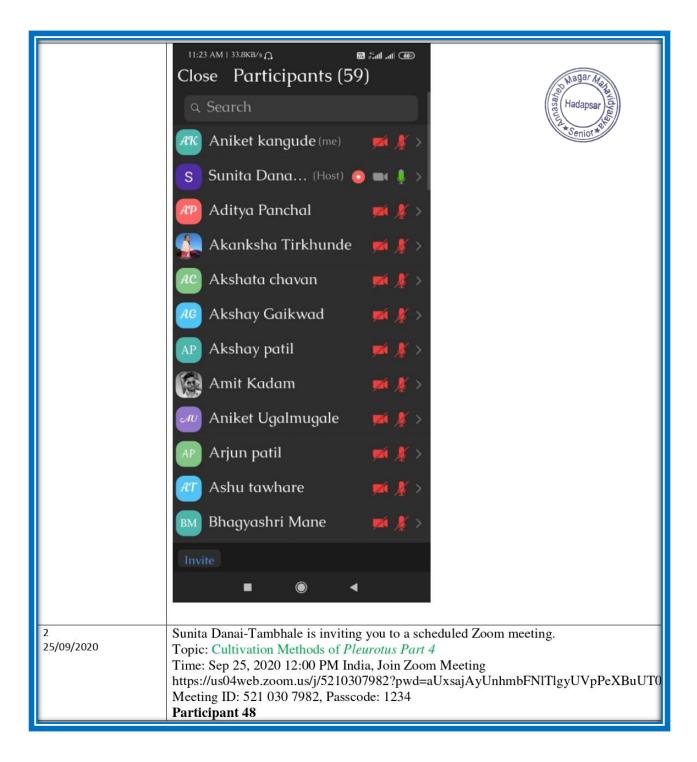
Criterion III 66 | P a g e



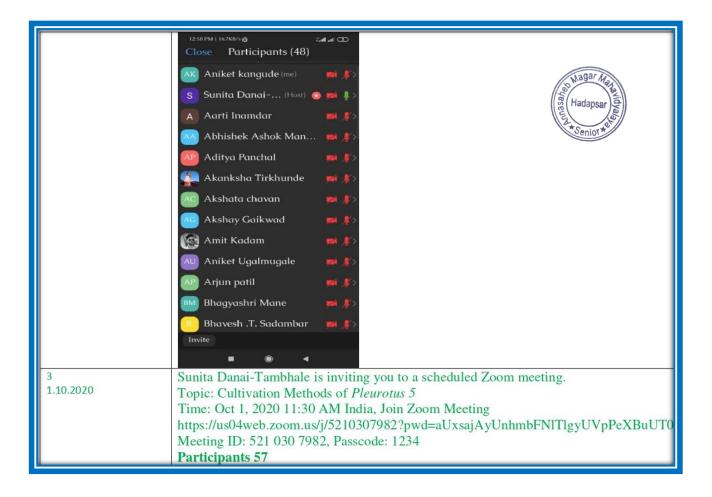
Criterion III 67 | P a g e



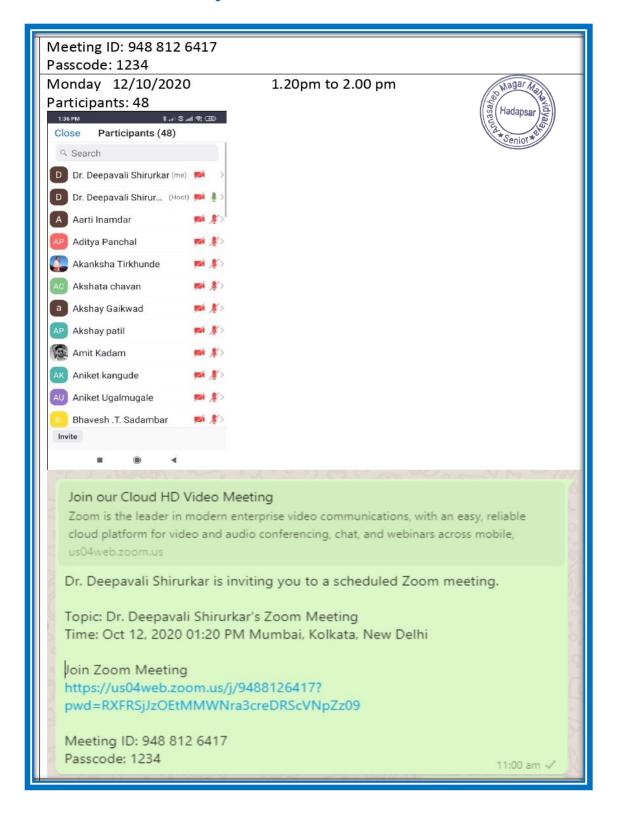
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Criterion III 69 | P a g e



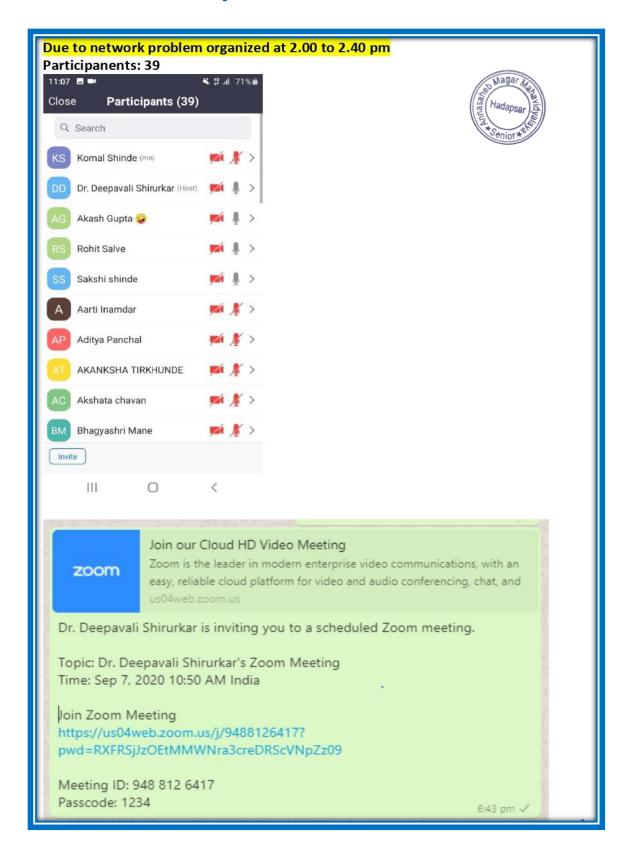
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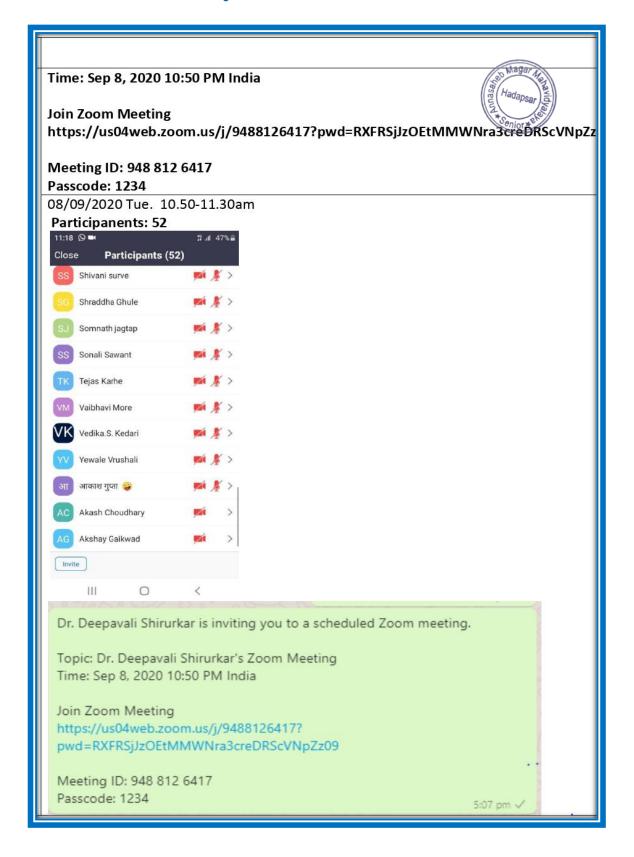
Criterion III 71 | P a g e

02/11	2000	2/11/2020 Monday : rticipants: 28	1.20pm to 2.00pm	Hadapsar Hadapsar
Dr. Danai-Tambhale S. D.				Senior*
1.	Top Tin http Me	pic: Cultivation Methods of <i>Pla</i> ne: Sep 23, 2020 11:00 AM Inc	dia, Join Zoom Meeting 07982?pwd=aUxsajAyUnhmbFNlTlgy	yUVpPeXBuUT0

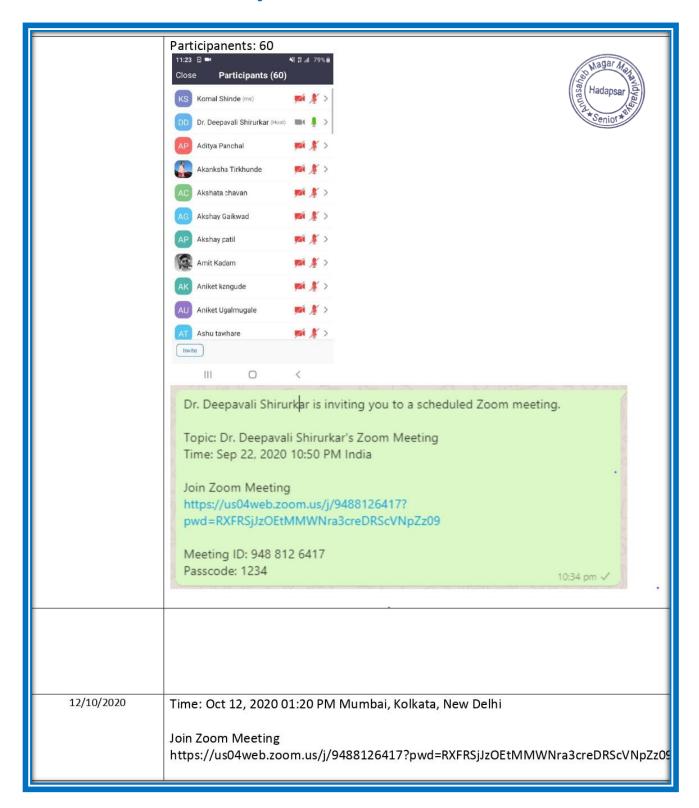
Criterion III 72 | P a g e



Criterion III 73 | P a g e



Criterion III 74 | P a g e

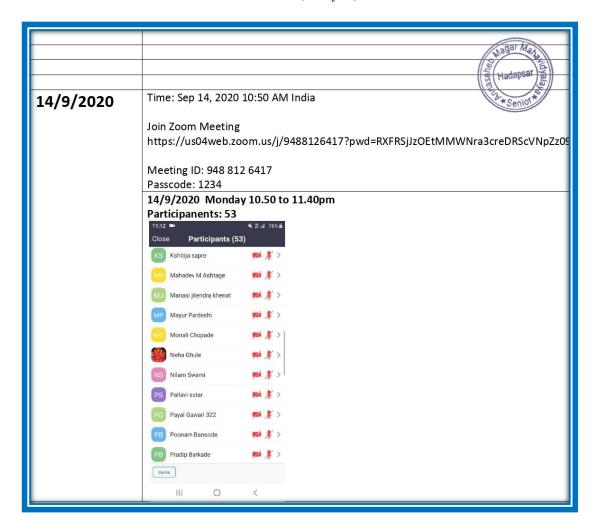


Criterion III 75 | P a g e

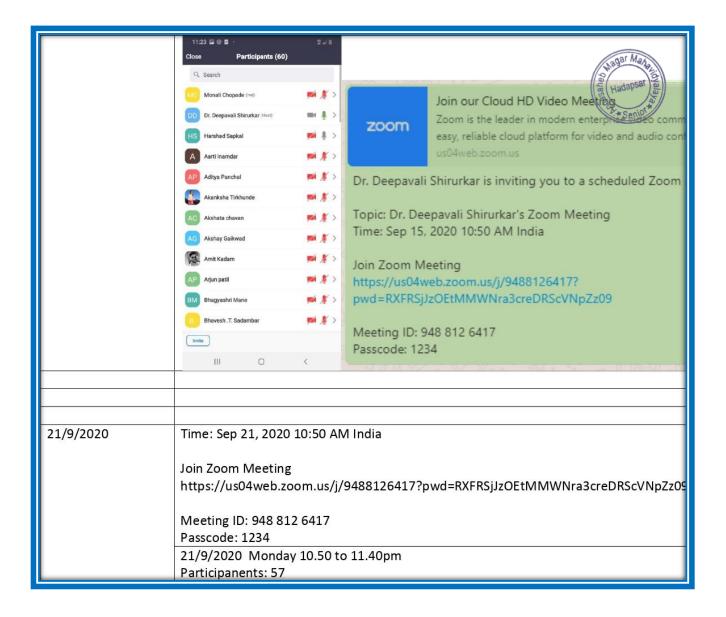
	Dr. Deepavali Shirurkar is inviting you to a scheduled Zoom meeting.  Topic: Dr. Deepavali Shirurkar's Zoom Meeting Time: Sep 14, 2020 10:50 AM India  Join Zoom Meeting https://us04web.zoom.us/j/9488126417? pwd=RXFRSjJzOEtMMWNra3creDRScVNpZz09  Meeting ID: 948 812 6417 Passcode: 1234
15/09/2020	Topic: Dr. Deepavali Shirurkar's Zoom Meeting Time: Sep 15, 2020 10:50 AM India  Join Zoom Meeting https://us04web.zoom.us/j/9488126417?pwd=RXFRSjJzOEtMMWNra3creDRScVNpZz0S  Meeting ID: 948 812 6417 Passcode: 1234  15/9/2020 Tuesday 10.50 to 11.40pm Participanents: 60

Criterion III 76 | P a g e

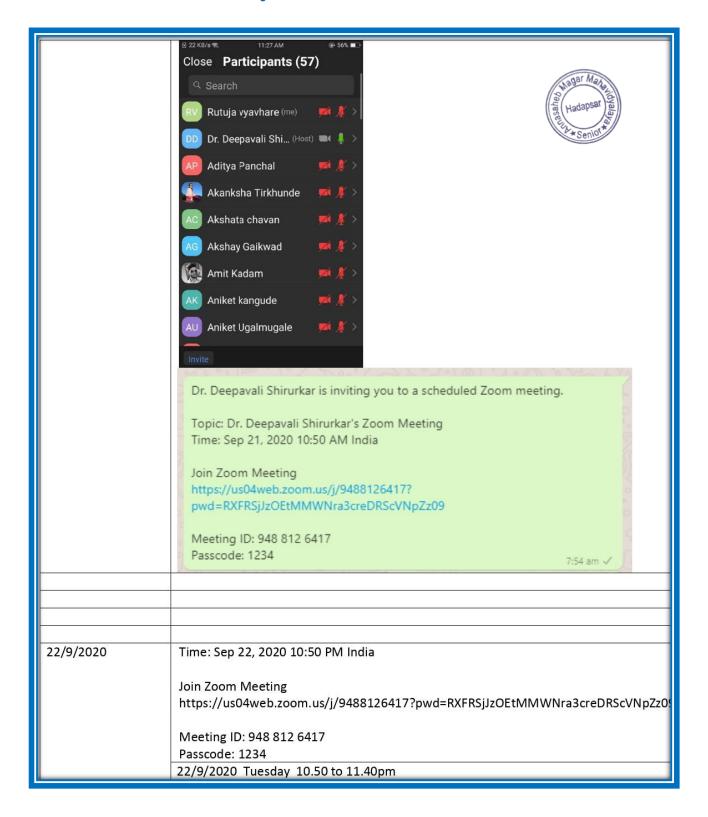
#### PDEA's Annasaheb Magar Mahavidyalaya, Hadapsar, Pune-28 SSR 2024 (4<sup>th</sup> Cycle)



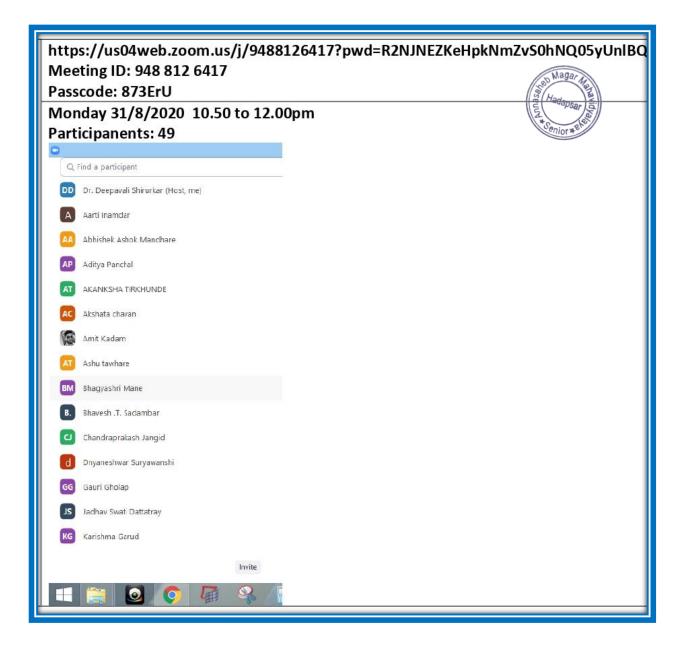
Criterion III 77 | P a g e



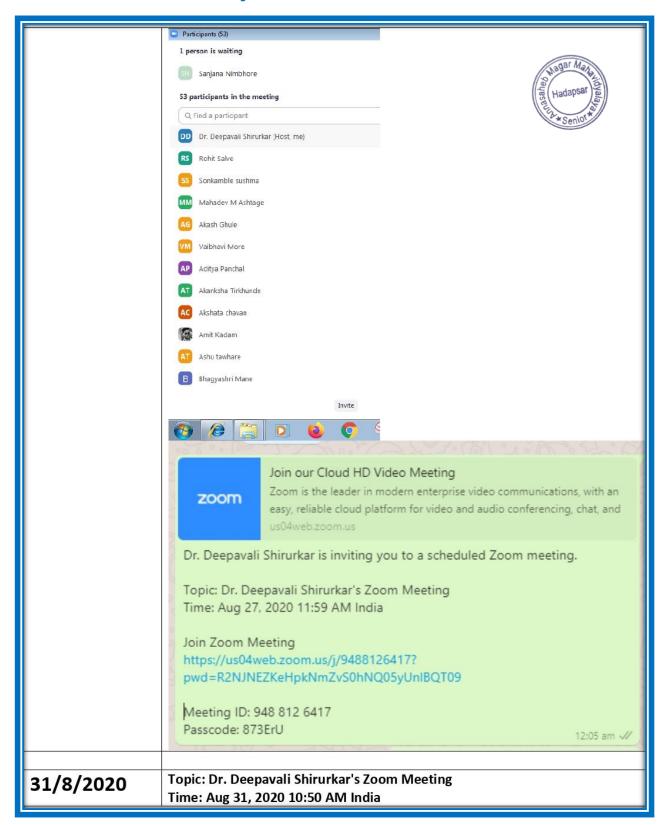
Criterion III 78 | P a g e



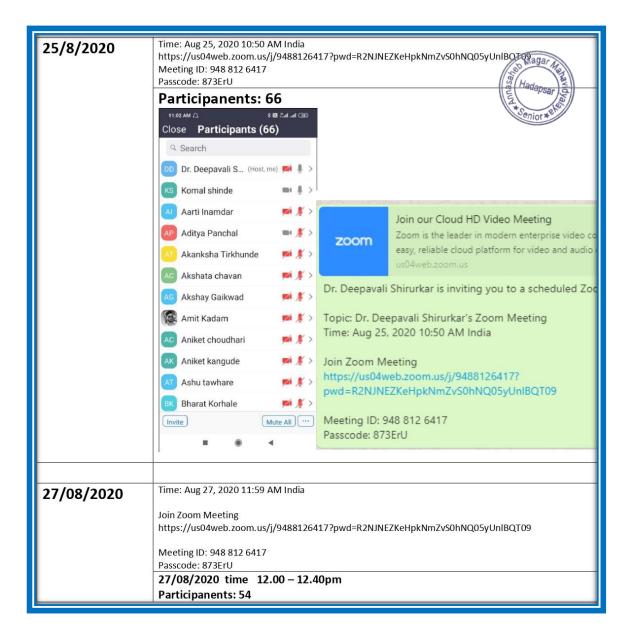
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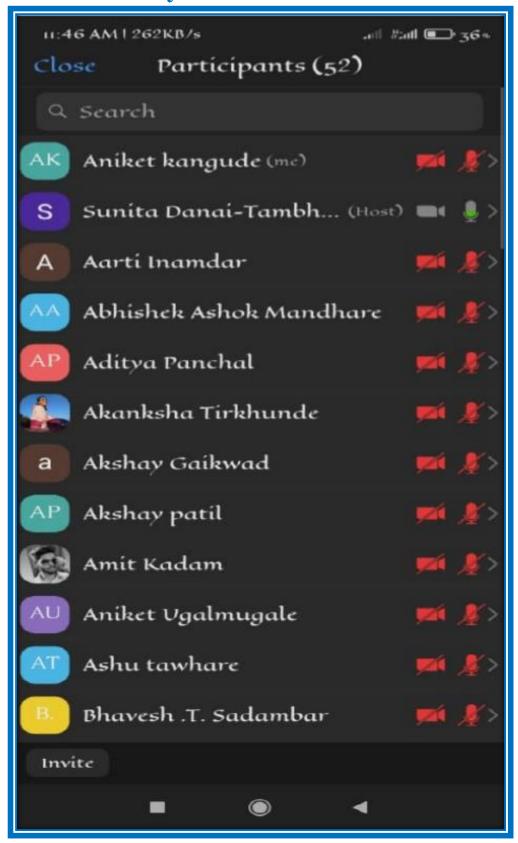
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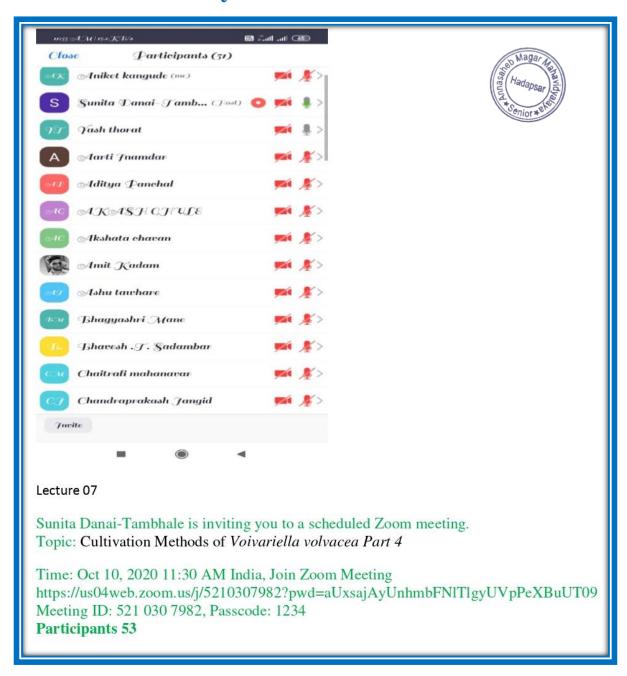
Criterion III 81 | P a g e



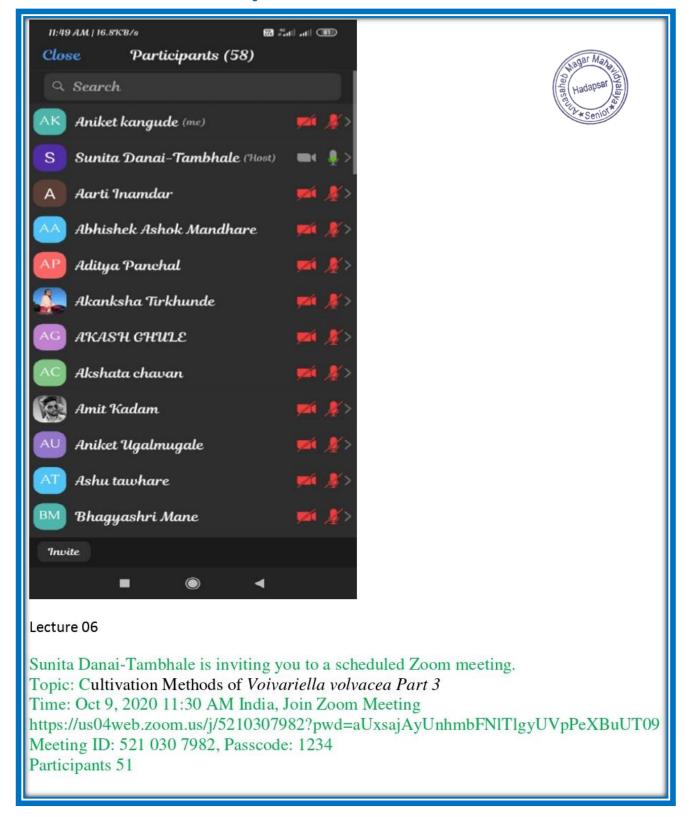
Criterion III 82 | P a g e



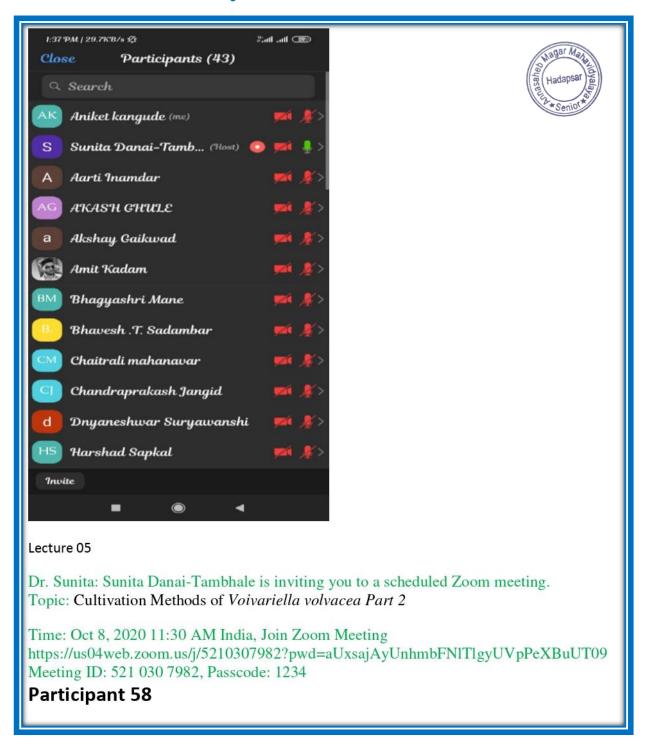
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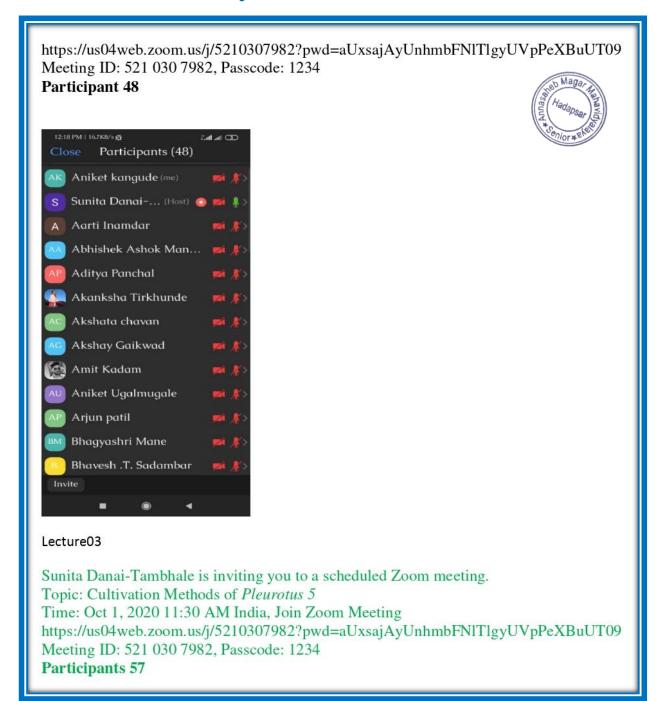
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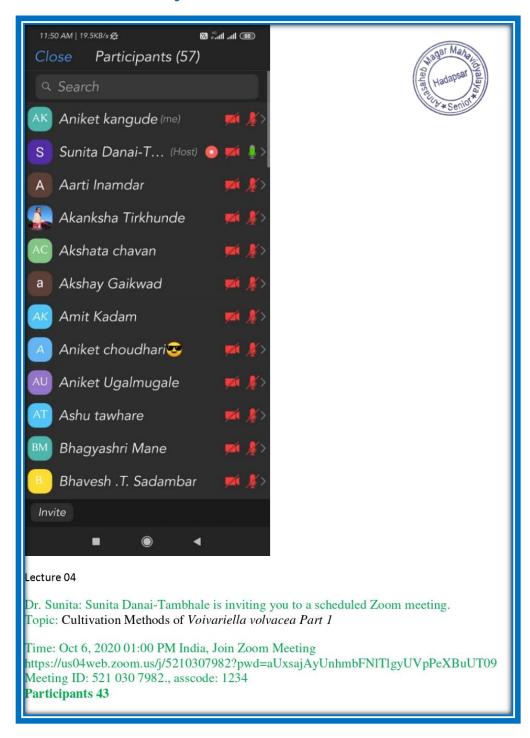
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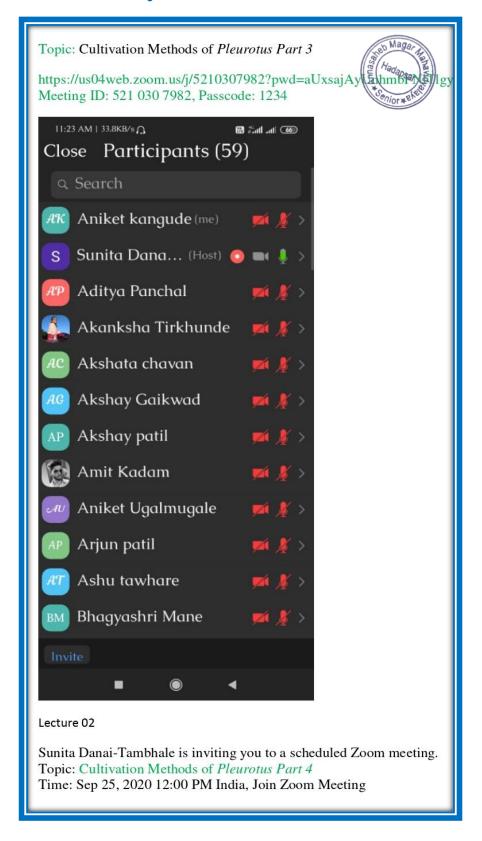
Criterion III 86 | P a g e



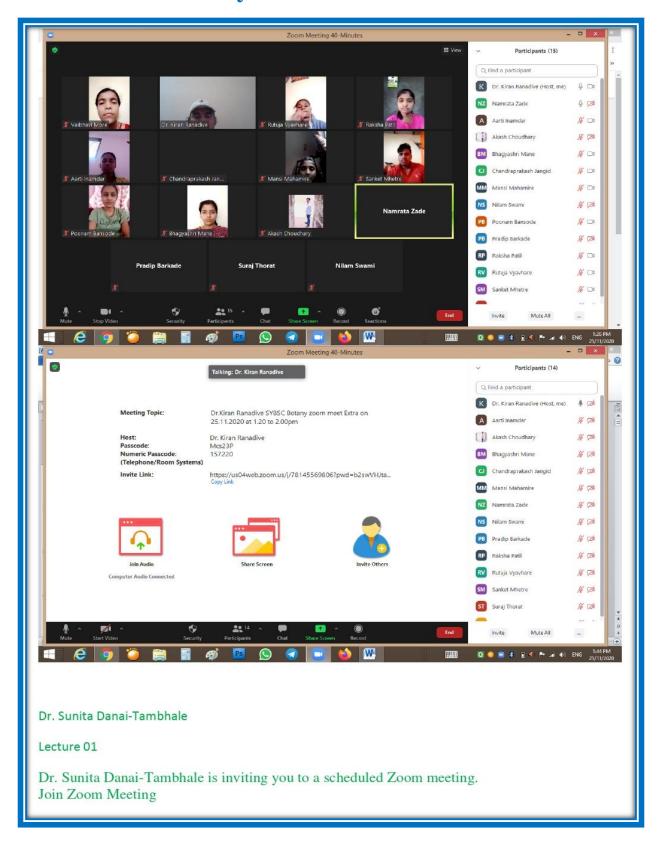
Criterion III 87 | P a g e



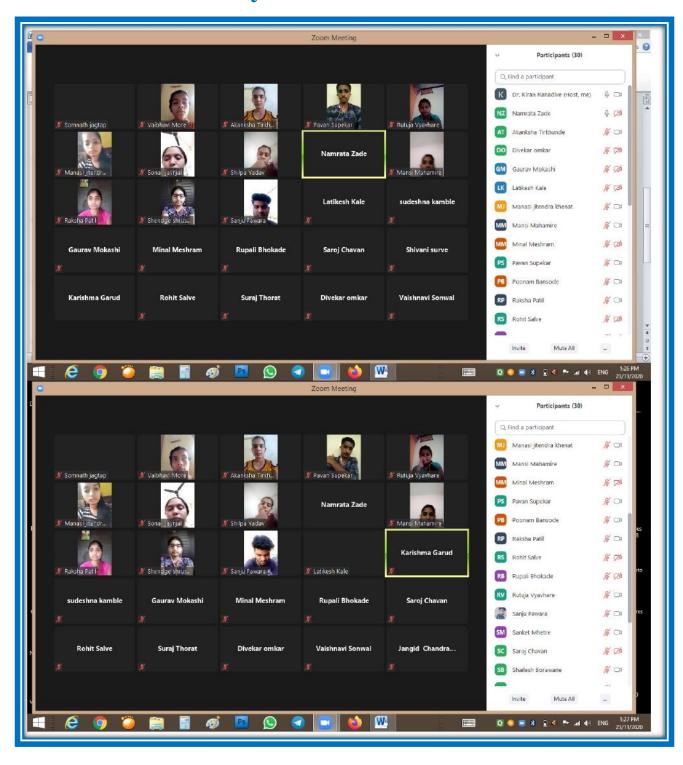
Criterion III 88 | P a g e



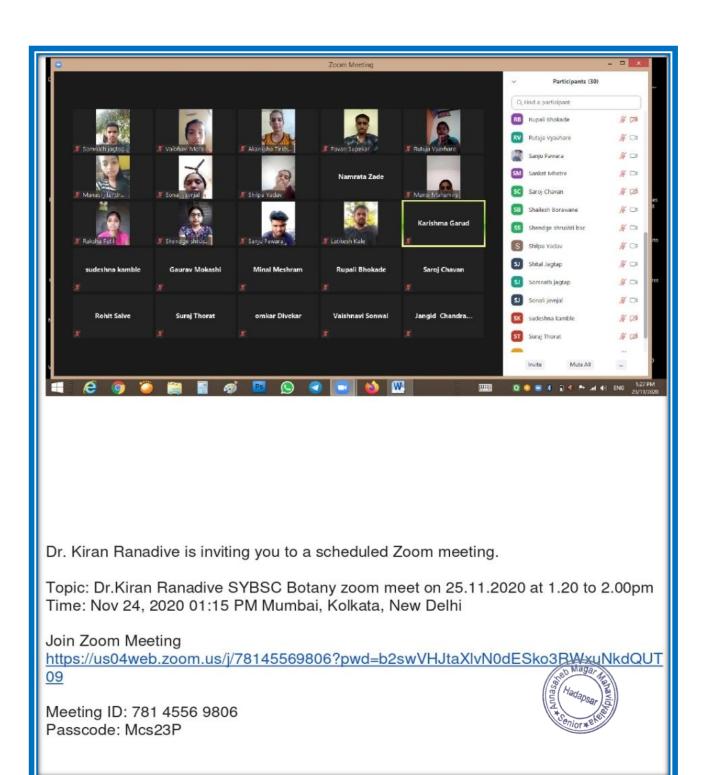
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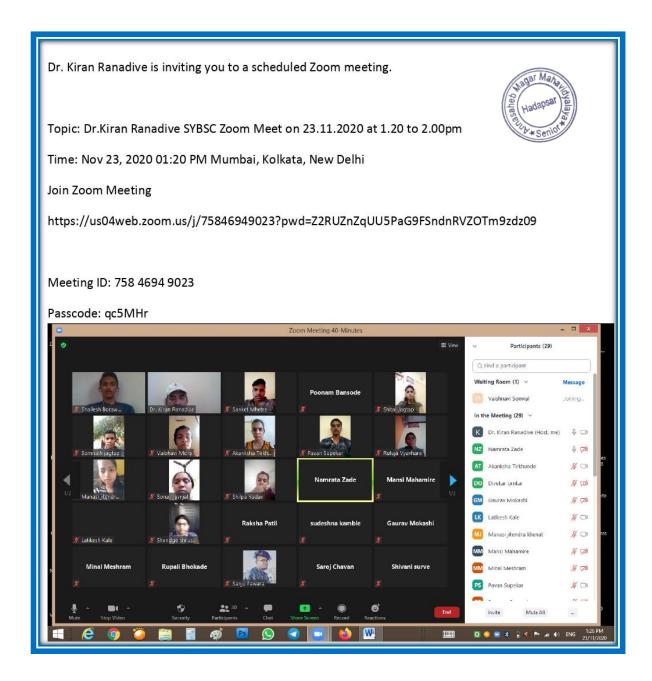
Criterion III 90 | P a g e



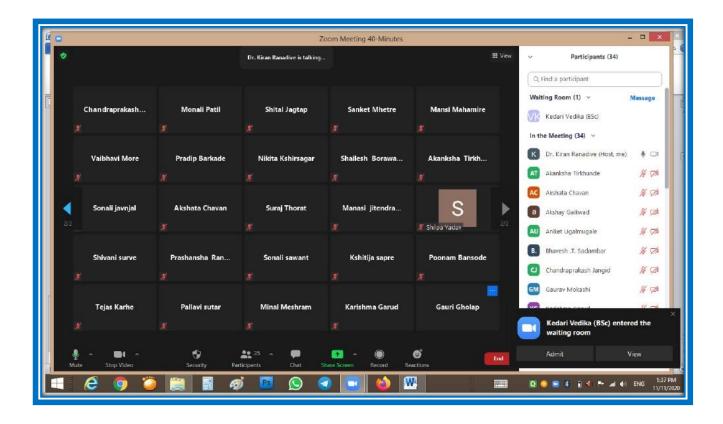
Criterion III 91 | P a g e



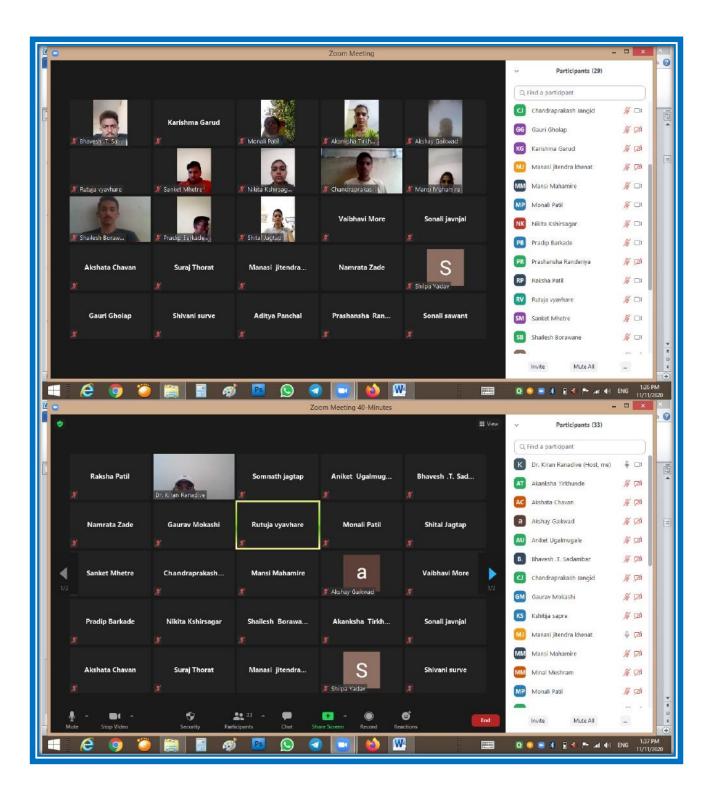
Criterion III 92 | P a g e



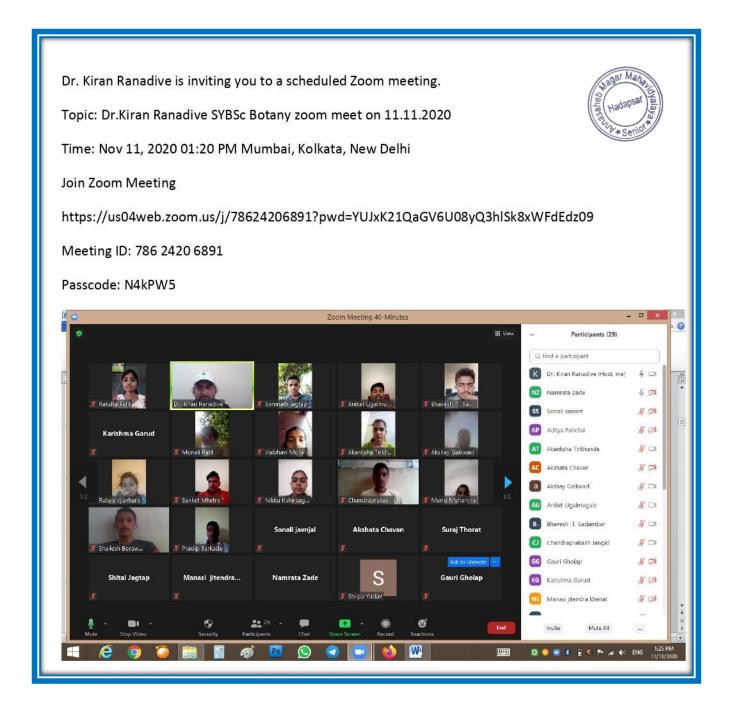
Criterion III 93 | P a g e



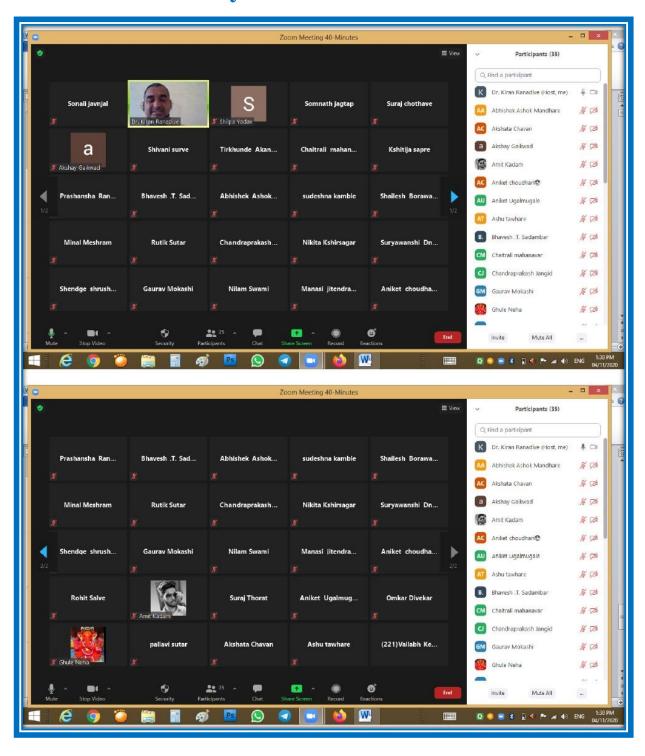
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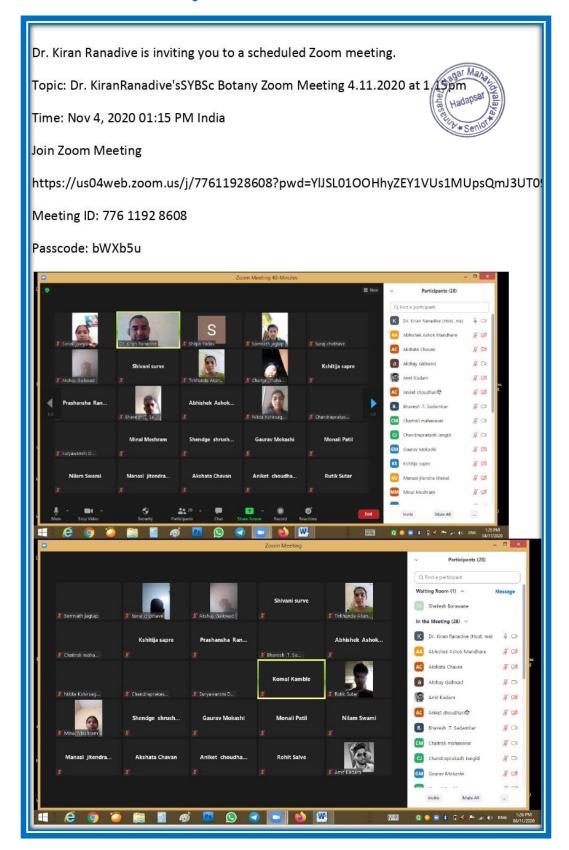
Criterion III 95 | P a g e



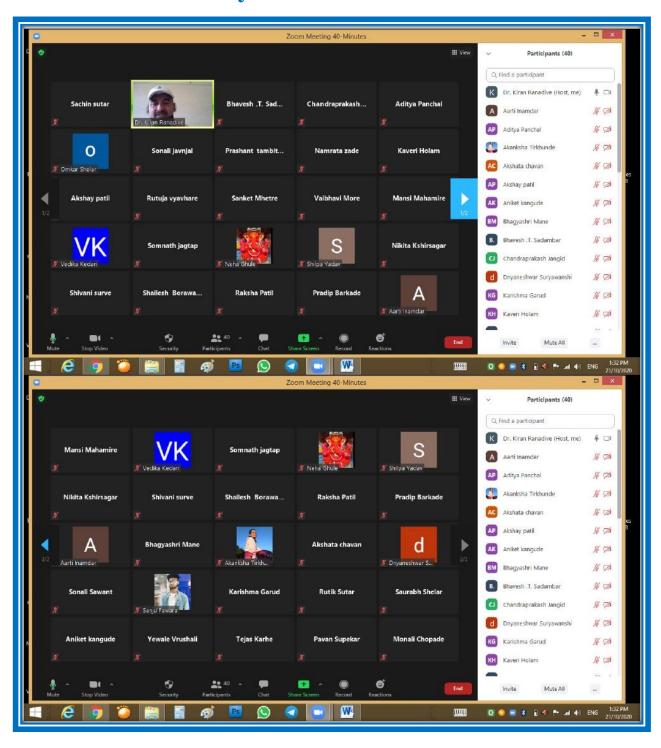
Criterion III 96 | P a g e



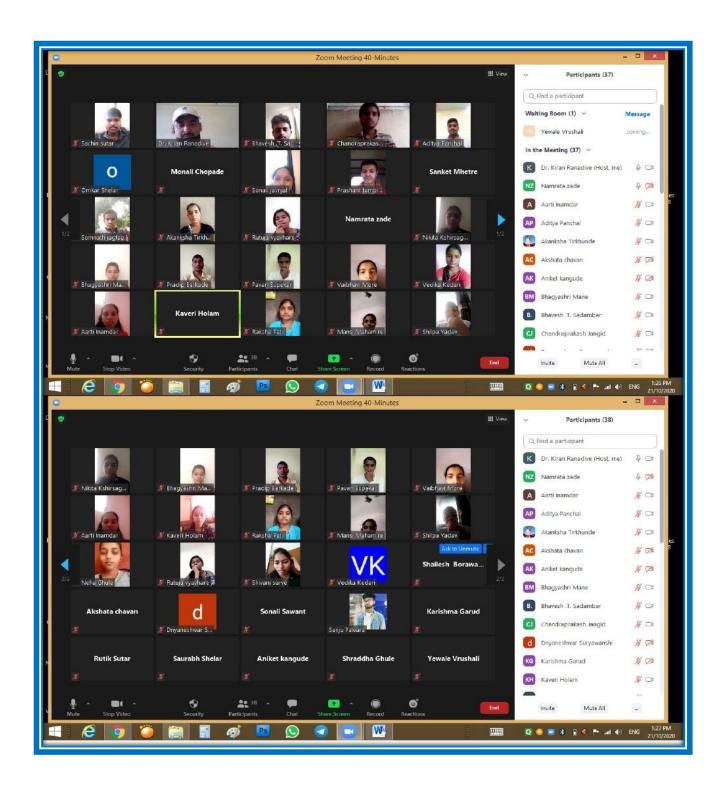
Criterion III 97 | P a g e



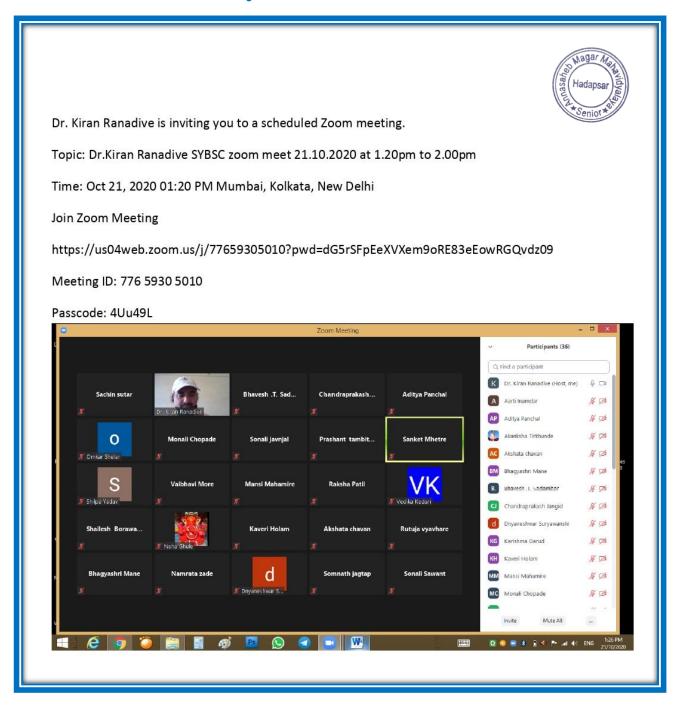
Criterion III 98 | P a g e



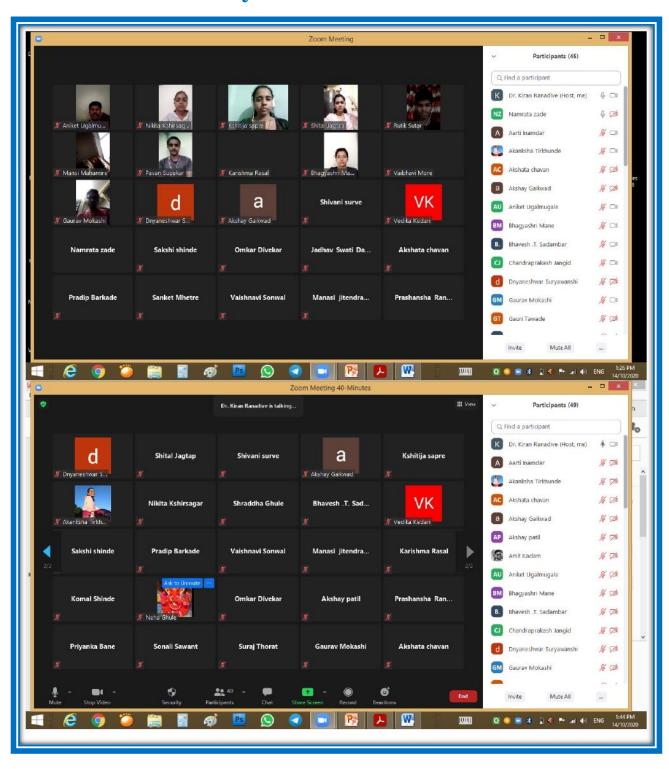
Criterion III 99 | P a g e



Criterion III 100 | P a g e



Criterion III 101 | P a g e

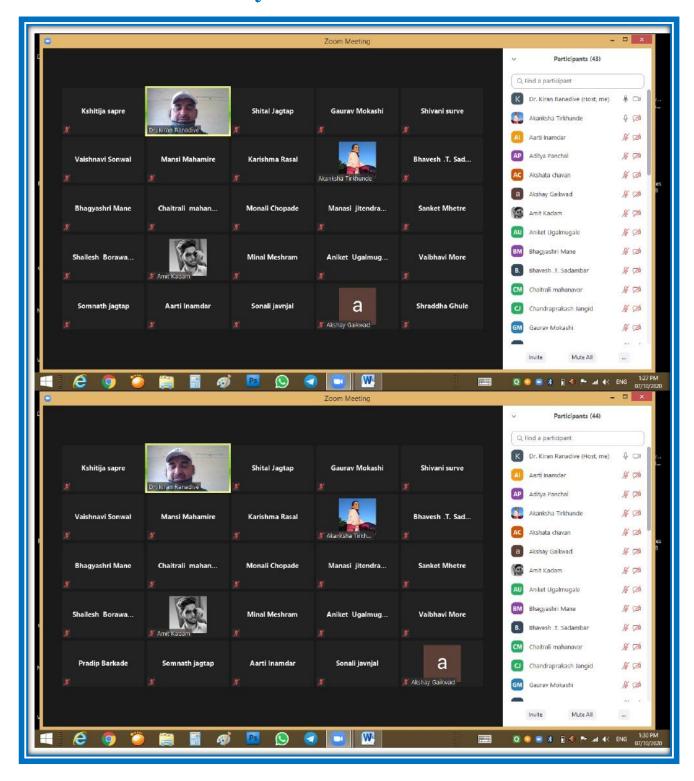


Criterion III 102 | P a g e

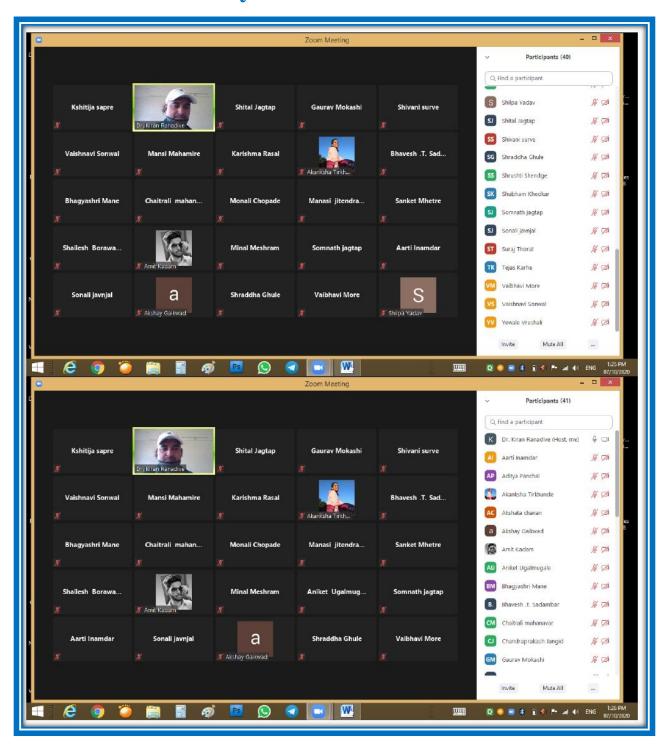
Dr. Kiran Ranadive is inviting you to a scheduled Zoom meeting. Topic: Dr.Kiran Ranadive SYBSc Botany zoom meet 14.10.2020 at 1.20pm Time: Oct 14, 2020 01:20 PM Mumbai, Kolkata, New Delhi Join Zoom Meeting https://us04web.zoom.us/j/75906768961?pwd=c3lPNFphTWx1cGpiSHhmeUE3eEU2QT09 Meeting ID: 759 0676 8961 Passcode: 6yh6Kv Participants (43) Q Find a participant Waiting Room (1) v Prashansha Randeriya In the Meeting (43) ~ K Dr. Kiran Ranadive (Host, me) NZ Namrata zade \$ 70 A Aarti Inamdar % D1 Akanksha Tirkhunde & D1 AC Akshata chavan % CA a Akshay Gaikwad % DI Au Aniket Ugalmugale N 01 BM Bhagyashri Mane B. Bhavesh .T. Sadambar

Criterion III 103 | P a g e

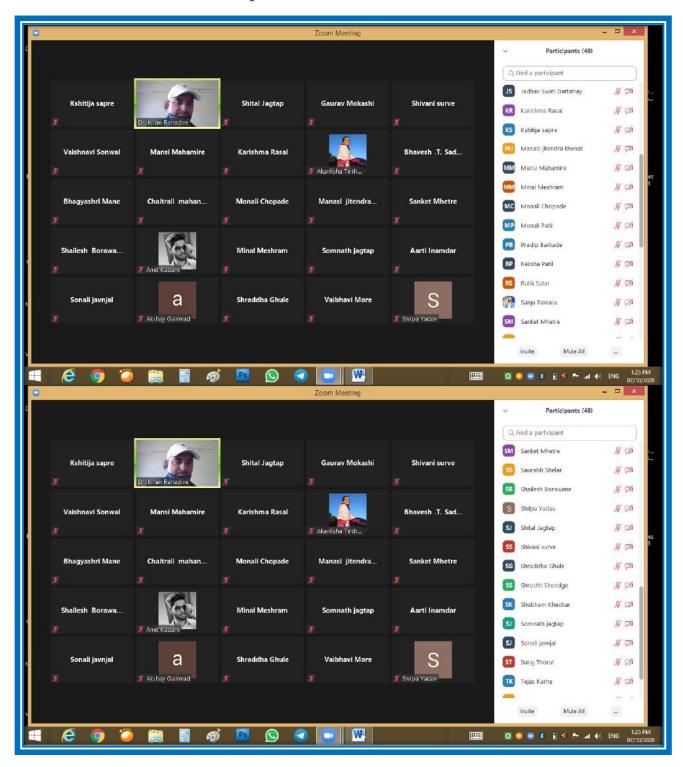
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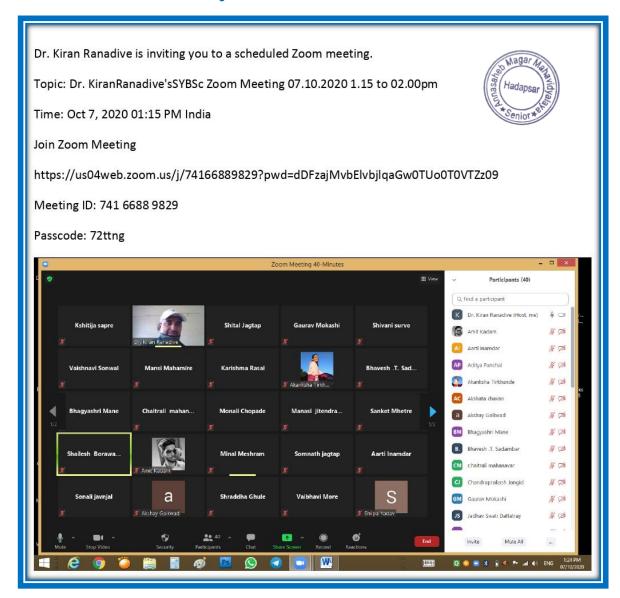
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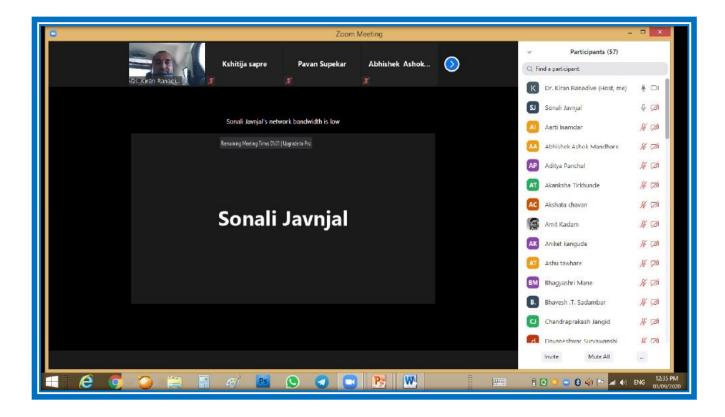
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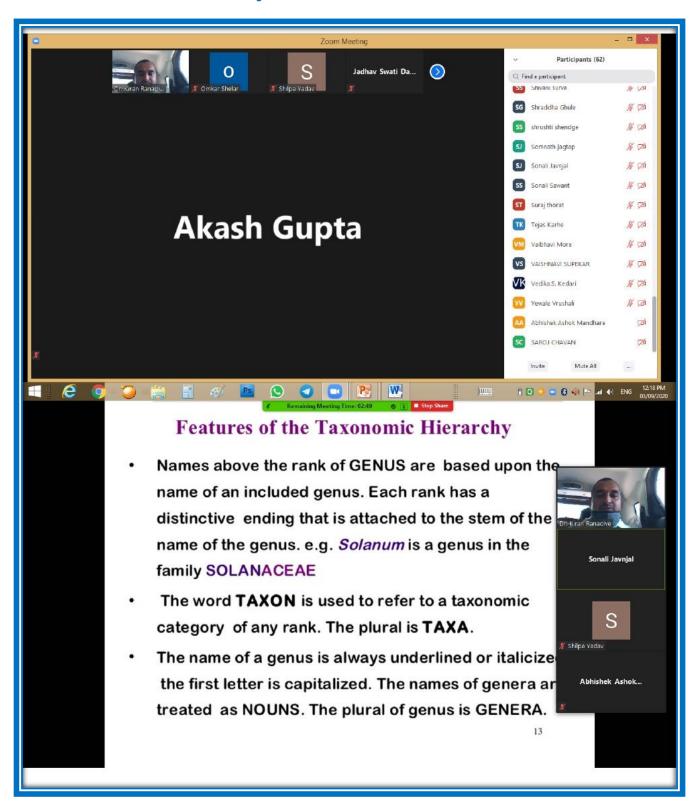
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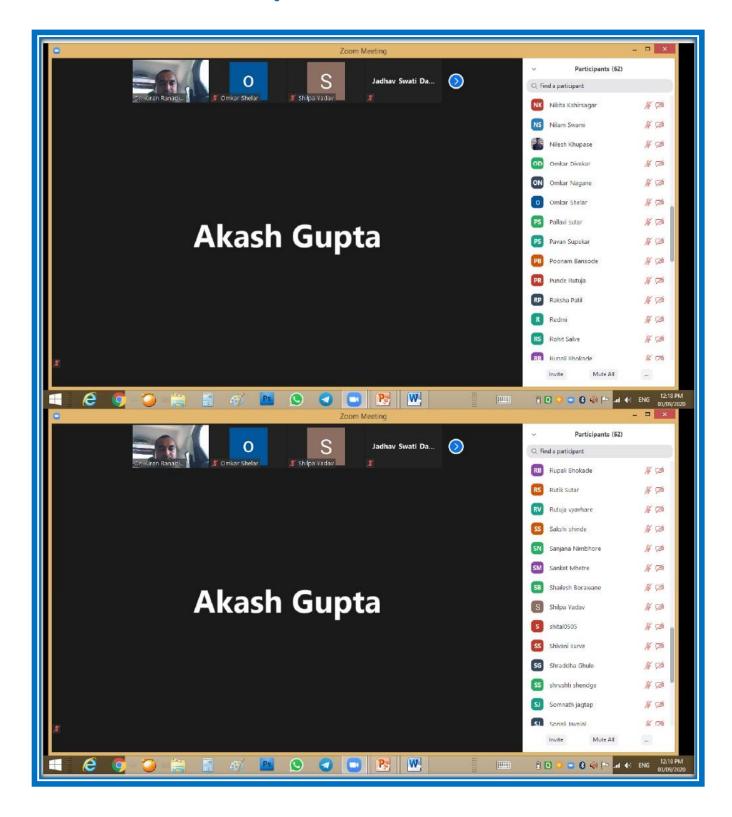
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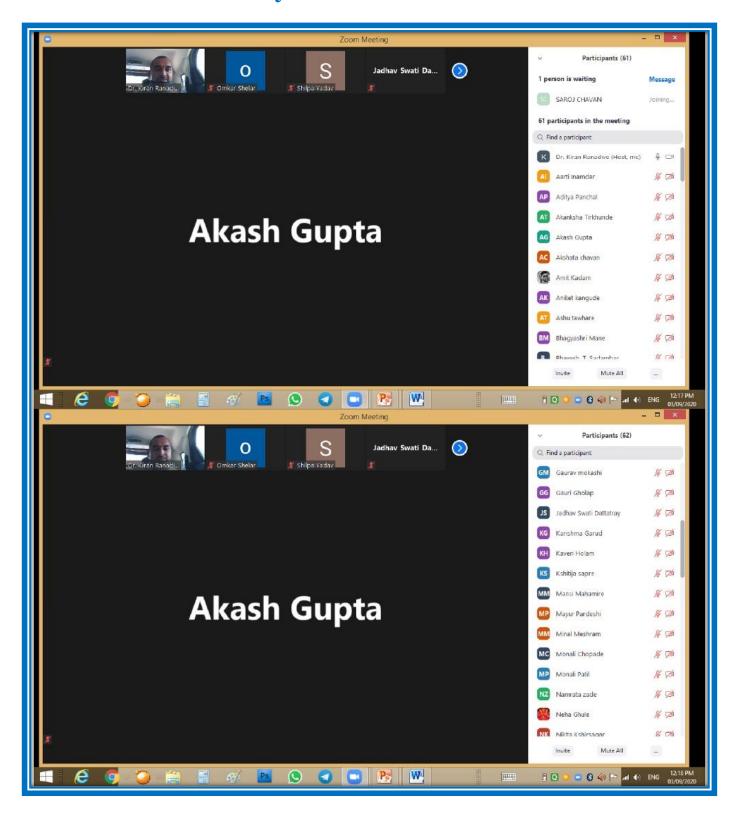
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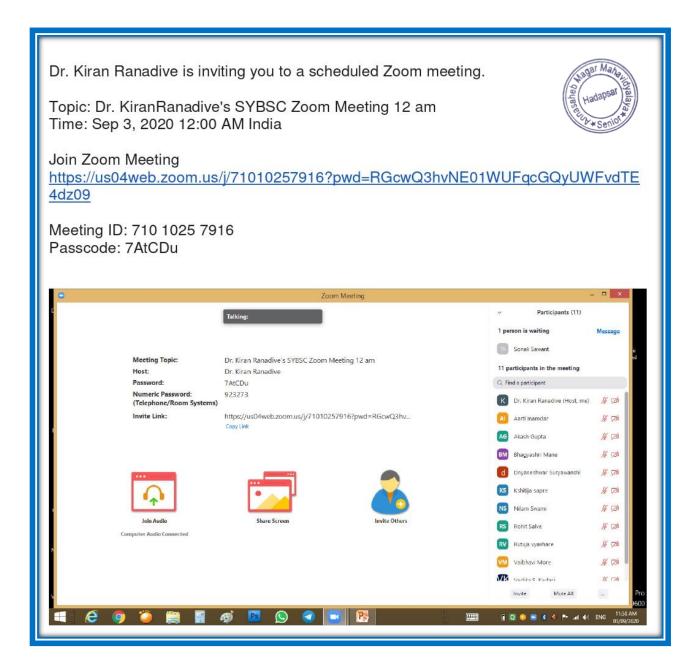
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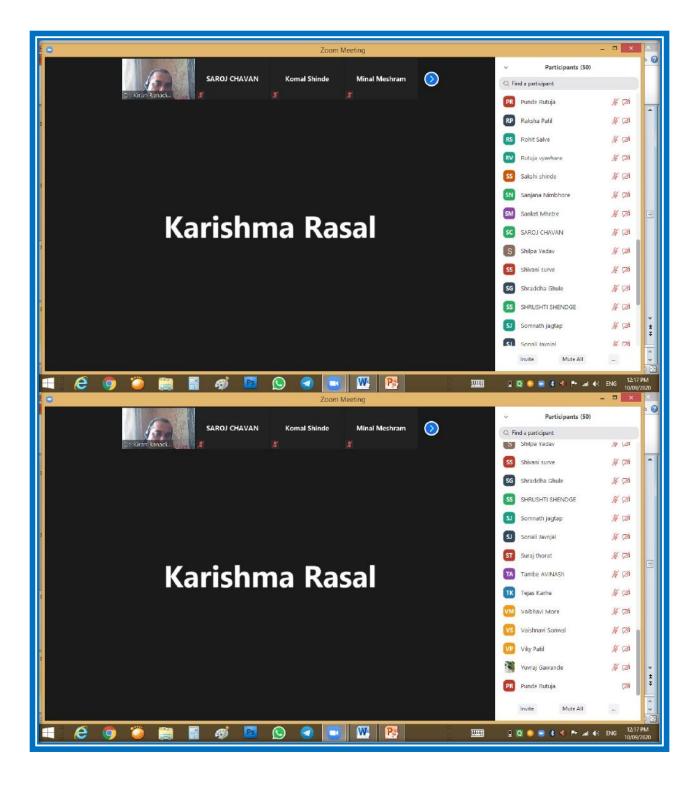
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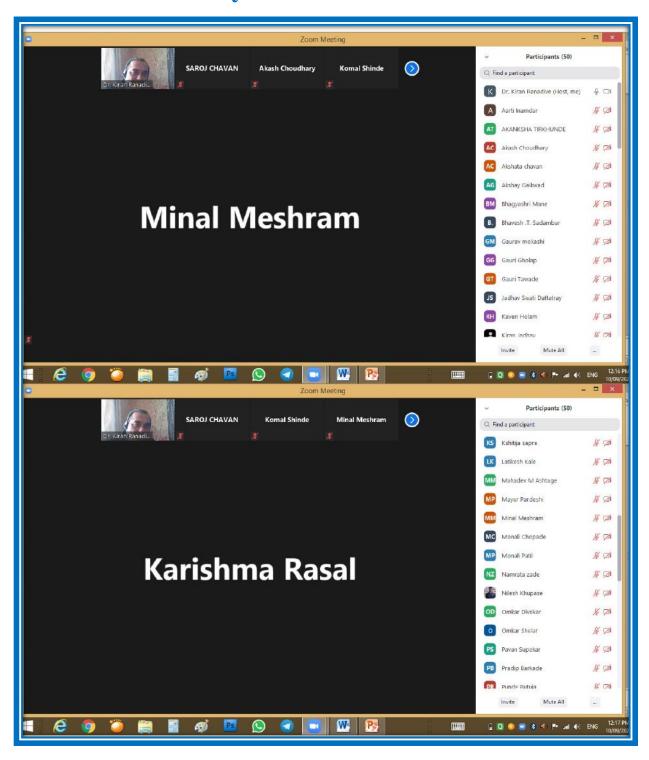
Criterion III Page



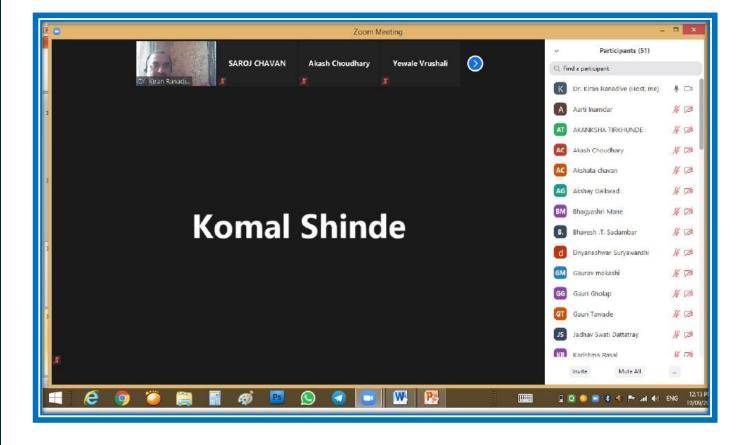
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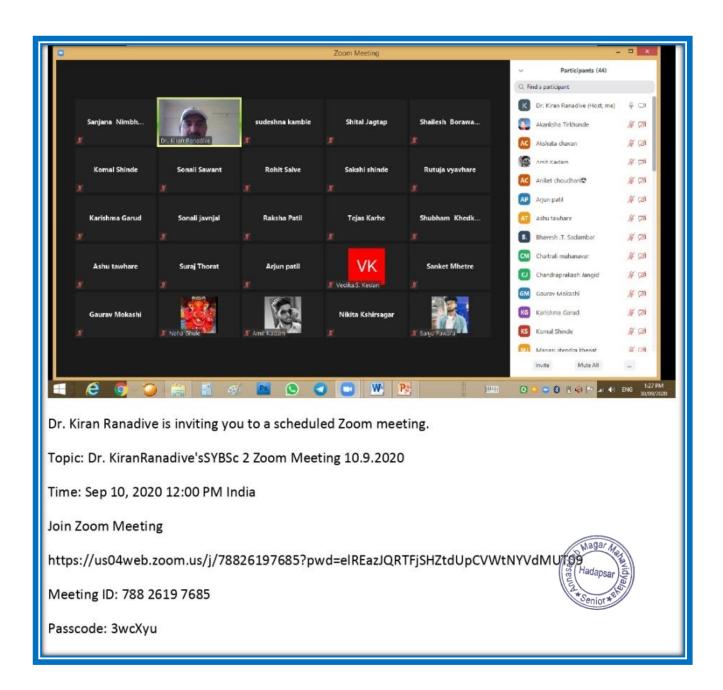
Criterion III 113 | P a g e



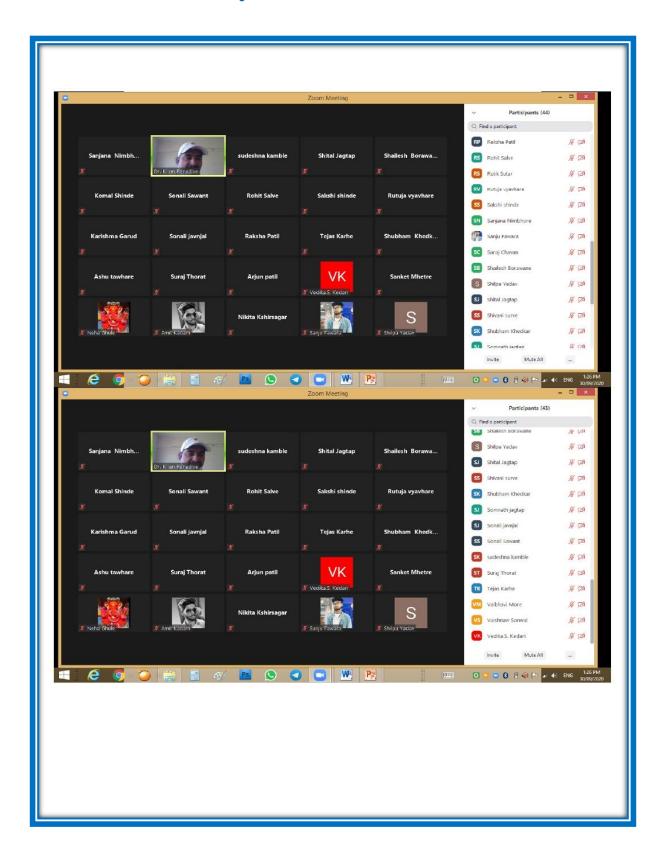
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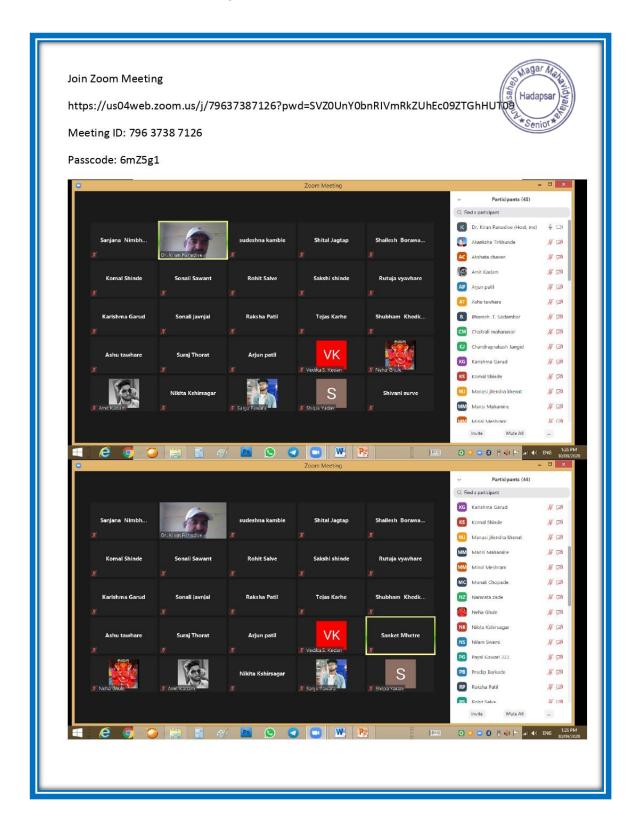
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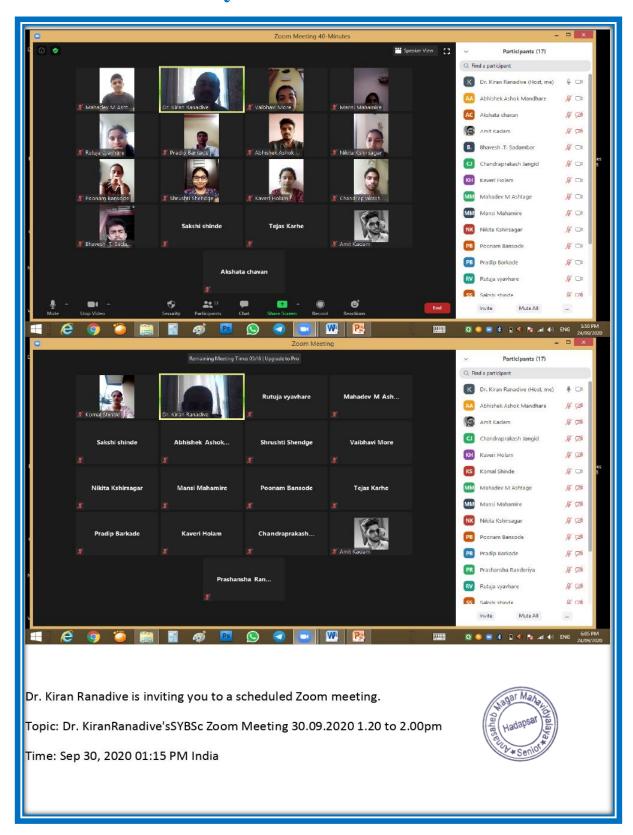
Criterion III 116 | P a g e



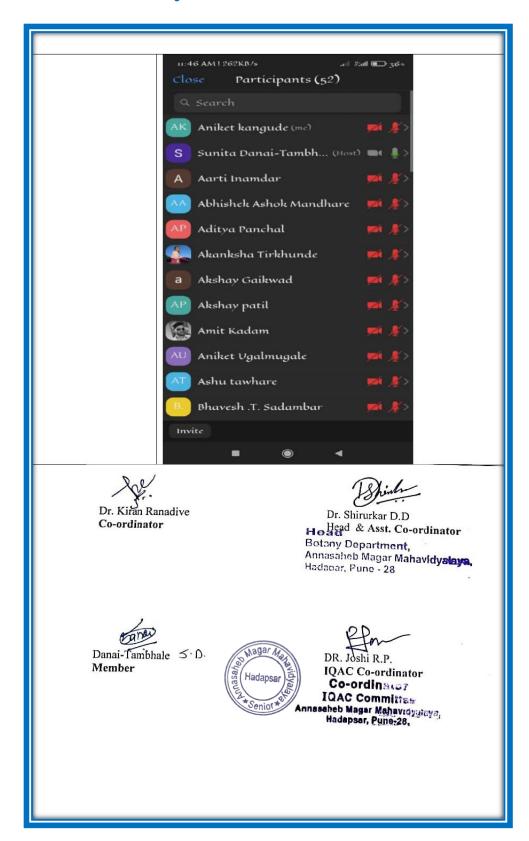
Criterion III 117 | P a g e



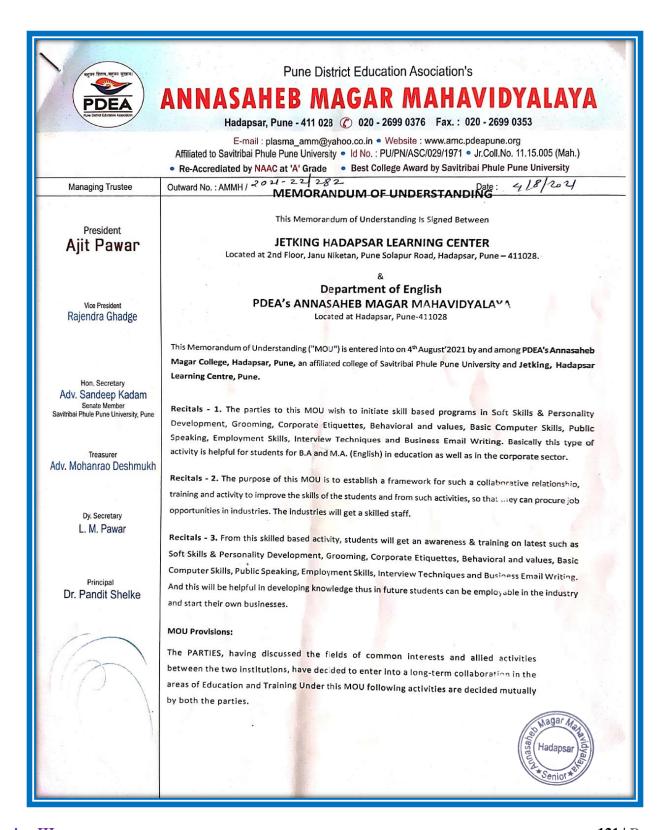
Criterion III 118 | P a g e



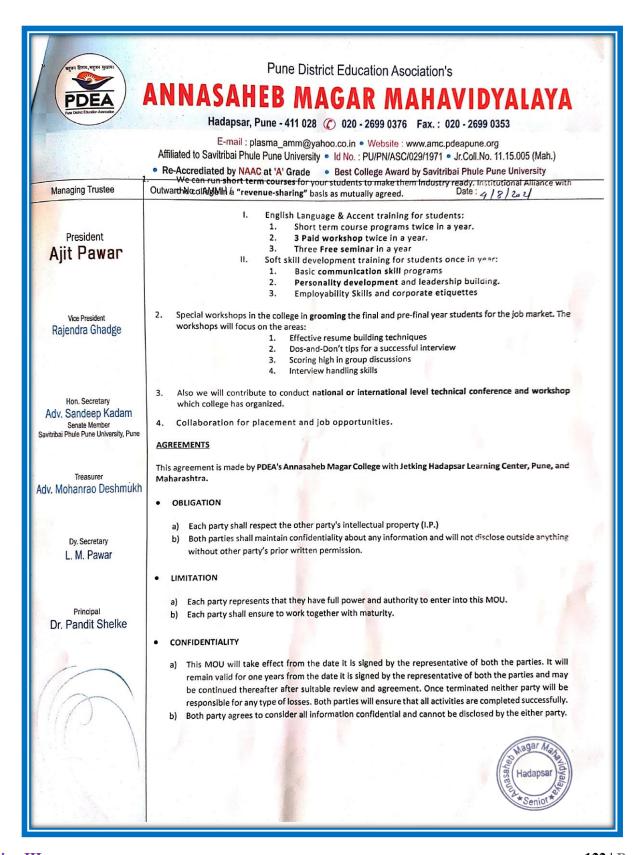
Criterion III 119 | P a g e



Criterion III 120 | P a g e



Criterion III 121 | P a g e



Criterion III 122 | P a g e

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PDEA on their Banks Absorber	ANNASAHEB M	ISTRICT Education Association's
	E-mail : plasma_amm@ Affiliated to Savitribai Phule Pune University	20 (20 - 2699 0376 Fax.: 020 - 2699 0353
Managing Trustee	Outward No. : AMMH/	Best College Award by Savitribal Phule Pune University  Date: 4/8/2024
President Ajit Pawar  Vice President Rajendra Ghadge	<ul> <li>TERMS AND TERMINATION         This MOU, unless extended by mutual effective date specified in the openimutual written agreement of the particle.         CONDITION         </li> <li>a. Both parties will designate a repub. Unless and until the parties agree form of written approval.</li> </ul>	this MOU shall be exclusive and both parties, including their affiliates, or pursue other agreements or collaborations of any kind.  all written agreement of the parties, shall expire in two years after the line paragraph. This MOU may be amended or terminated earlier by
Hon. Secretary Adv. Sandeep Kadam Senate Member Savitribai Phule Pune University, Pune	legal validity.	ach copy being an official version of the Agreement and having equal rized officers to be executed effective as on the day mentioned in the
Treasurer Adv. Mohanrao Deshmukh	On behalf of  Jetking – Hadapsar Learning Center, Pune, Maharashtra	On behalf of  PDEA's Annasaheb Magar College, Hadapsar Pune, Maharashtra.
Dy. Secretary L. M. Pawar	Name : Mr. Suresh Patel  Title : Center Director  Date : 8/4/2021	Name: Dr. Khandewale W. S.  Title: HOD & Professor  Date: 8/4/2021  Sign & Seal Head, Welland W. S. Landewall
Principal Dr. Pandit Shelke	Sign & Seal	Sign & Seal  Pepartment of English, Annasaheb Magar Mahavidyalaya, Hadapsar, Pune - 411 028.  Name: Dr. Pandit N. Shelke
		Date: 8/4/2021 Sign & Seal PRINCIPA Annasaheb Magar Mahavidyalaya Hadapsar, Pune-411028.

Criterion III 123 | P a g e

Activity: Employability Skill Activity: Student Notice



Criterion III 124 | P a g e

Pune District Education Association's

# Annasaheb Magar Mahavidyalaya, Hadapsar, Pune, Maharashtra – 411028,

#### Webinar Participant Sheet

(2021 - 2022)

One Day State Level Webinar on "Employability Skills" 24th, August 262

S.N.	Name	
1	Dr. Warsha Khandewale	
2	Prof. Shashi Walmiki	
3	Prof. Dheeraj Deshmukh	
4	Prof. Shivraj Tengse	
5	Jetking Hadapsar Learning Centre	
6	Siddhesh Jadhav	
7	Vaibhav Desai	
8	Satyabhama	
9	Shruti Balaji	
10	Shinde Sonali	
11	Pujari Shweta	
12	Vivek Raut	
13	Govind Chitodiya	
14	Amar Doiphode	
15	Domale	
16	Shinde Adesh	
17	Shruti Salvi	
18	Sneha Bhosale	
19	Snehal Gaikwad	
20	Sonali Shinde	
21	Surekha Thombare	
22	Tanuja Awate	
23	Trupti Pawar	
24	Jyotsna Sathe	
25	Kamble Ankita	
26	Khandagale Kiran	
27	Kunal Choudhari	
28	Lonkar Sakshi	
29	Mangesh Deshpande	
30	Manisha Mourya	
31	Marale Shraddha	
32	Nikita Gaikwad	
33	Nilawari Gajre	
34	Padma Pujari	
35	Pawar Swapnali	
36	Davne Nikita	
37	Deepali Ghure	
38	Deepti Wadkar	
39	Divya Chavan	

Criterion III 125 | P a g e

40	Countri Wallan	
40	Gayatri Yadav	(8)
41	Ganesh Gandhile	asah
42	Ghule Gayatri	1/2
43	Umashree Mhetre	
44	Yogita Choudhari	
45	Yuvraj Bhosale	
46	Shewale Vaishnavi	
47	Payal Gaikwad	
48	Poonam Donhe	
49	Prajakta Thorat	
50	Prakash Godage	
51	Pranjal More	
52	Prateek Nikshe	
53	Prateeksha Phand	
54	Preeti Mhetre	
55	Reshma Mandhare	
56	Riya Choudhari	
57	Sahil Div C	
58	Sejal Sonawane	
59	Jadhav rutuja	
60	Jay Dongare	
61	Jyotsna Sathe	
62	Kadambari Zende	
63	Deepti Manoj	
64	Pranav Choudhari	
65	Durga Chourasia	
66	Adekar Sayali	
67	Akanksha Hinge	
68	Rutuja Anantwar	
69	Anchal Kalbhor	
70	Sandhya Antu	
71	Anushree Bhosale	
72	Amrut Bilagi	
73	Kshitija Choudhari	
74	Domale Prateeksha	
75	Aditya Rajendra	
76	Sneha Jagtap	
77	Kalantre	
78	Kudale Akash	
79	Samruddhi Malode	
80	Shivani Avhale	
81	Kshitija Mane	

Criterion III 126 | P a g e

### **Activity: Banner**



### **Activity: Report**

#### One Day Webinar on

#### "EMPLOYABILITY SKILLS"

24th, August 2021

Organized by

**English Department** 

Pune District Education Association's

Annasaheb Magar Mahavidyalaya, Hadapsar, Pune,

Maharashtra – 411028, India

#### Webinar Report

Department of English, Annasaheb Magar College has signed an MOU with Jetking, Hadapsar Learning Center. A webinar was organized regarding the Employability Skills for the students on 24<sup>th</sup> August, 2021. 81 students benefited from this webinar. Dr. W. S. Khandewale, Head, Department of English compered and organized the program. Mr. Suresh Patel made a PowerPoint presentation on various fields for EMPLOYABILITY and elaborated on the skills that are required for post pandemic employment opportunities.







Criterion III 128 | P a g e



### MOU 9: KUMAROW BOTANICAL INSTITUTE, RUSSIA

Федеральное агентство научных организаций Федеральное государственное бюджетное учреждение науки



197376, г. Санкт-Петербург, ул. Профессора Попова, д. 2, Тел./факс: +7 (812) 372-54-43, binadmin@binran.ru ИНН 7813045480, КПП 781301001, ОГРН 1037828001199

to The Principal,



Pune District Education Associations Annasaheb Magar College Mahadevnagar, Hadapsar Department of Botany

Pune-411028, Maharashtra, India

In this letter, with the warm respects, I confirm a long-term collaboration of mycologist of the Komarov Botanical Institute Dr. Ivan V. Zmitrovich and Assistant Professor of Botany Dr. Kiran Ranadive from Department of Botany of Annasaheb Magar College, Mahadevnagar, Hadapsar. For our institute, the further cooperation of the mentioned persons in direction of collaborative study of tropical mycobiota seems to be promising issue.

22/10/2019

Dmitry V. Geltman PhD, Dr. Sci.

Director of Komarov Botanical Institute of the Russian Academy of Sciences

Criterion III 129 | P a g e

### MOU 9: KUMAROW BOTANICAL INSTITUTE, RUSSIA

Activity: Published Research Paper Investigating the Effects Of Inonotus Rickii Extracts On The Muscle Contraction Intensity Activity: Research Paper

#### БИОЛОГИЧЕСКИЕ НАУКИ

УДК: 582.284: 616.006

# Оценка влияния экстрактов *Inonotus rickii* на интенсивность мышечного сокращения

©2021. К.Р. Ранадив<sup>17</sup>, Н.В. Джагтап<sup>2</sup>, П.Н. Джагтап<sup>3</sup>, И.В. Змитрович<sup>4</sup>, В.В. Перелыгин<sup>5</sup>

 $^1$  Колледж Аннасахеб Магар Махавидьялая, Хадапсар, Индия  $^2$  Колледж Уэгхира, Сасвад, Индия

<sup>3</sup> Фармацевтический колледж SGRS P.D.E.A., Сасвад, Индия

<sup>4</sup> Ботанический институт им. В.Л. Комарова, Санкт-Петербург, Россия

<sup>5</sup> Санкт-Петербургский государственный химико-фармацевтический университет Министерства здравоохранения Российской Федерации, Санкт-Петербург, Россия

> \* e-mail: ranadive.kiran@gmail.com Поступила в редакцию 05.03.2021 г. После доработки 12.03.2021 г. Принята к публикации 24.03.2021 г.

Целью настоящего исследования является тестирование воздействия водного, эфирного и спиртового экстрактов плодовых тел дереворазрушающего гриба Innonotus rickii на двигательную активность животных, являющуюся результатом сокращения как поперечноисчерченной, так и гладкой мускулатуры. Фармако-логическая активность сырья I. rickii была определена in vitro с использованием метода кривой «доза-ответ» (гладкая мускулатура), так и в экспериментах с пероральным приемом экстрактов (эффекты на поперечноисчерченную мускулатуру, опосредованные ЦНС). Водный экстракт грибного материала показал увеличение двигательной активности гладкой мускулатуры по сравнению со стандартным кофеином, что говорит о способности грибного экстракта оказывать стимулирующее действие на синапсы. Было выяснено, что экстракты I. rickii оказывают влияние на сокращение гладкой мускулатуры наподобие нейромедиатора ацетилхолина. При этом было показано, что наибольшую стимулирующую активность проявляет водный экстракт, что может быть связано с тормозным действием диэтилового эфира и этанола на холинэргические рецепторы. Описанные эффекты ставят на повестку дня как фракционирование активных экстрактов, так и дальнейшие эксперименты по терапевтическим приложениям описанных эффектов. Область возможного приложения такого рода веществ — кардиоваскулярное ремоделирование, поддержание тонуса гладкой мускулатуры при ряде оперативных вмешательств, а также паллиативная терапия злокачественных новобразований.

**КЛЮЧЕВЫЕ СЛОВА:** ацетилхолин; агонисты рецепторов; диазепам; кофеин; лекарственные грибы; стимуляция двигательной активности; ЦНС; *Inonotus* 

DOI: 10.17816/phf63224/2713-153X-2021-1-3-92-96

#### сокращения:

ЦНС – центральная нервная система; КОН – гидроксид калия.

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Criterion III 130 | P a g e

#### PDEA's Annasaheb Magar Mahavidyalaya, Hadapsar, Pune-28 SSR 2024 (4<sup>th</sup> Cycle)

#### **Activity: Research Paper**

ФОРМУЛЫ ФАРМАЦИ

PHARMACY FORMULAS



#### **ВВЕДЕНИЕ**

Inonotus rickii (Pat.) D.A. Reid (Basidiomycota, Agaricomycetes, Hymenochaetales) — патогенный дереворазрушающий гриб. В этом роде известно несколько патогенов хозяйственно начимых древесных пород. Ряд видов, как, например, I. obliquus, хорошо изучены в фармакологическом отношении [1, 2].

Основными действующими веществами у этих видов являются бета-глюканы, тритерпеноиды и малые гормоноподобные молекулы, имеющие фрагменты, способные активировать или дезактивировать рецепторы многих типов клеток, как иммунных, так и эпителиальных, эндотелиальных, нервных и мышечных. Многие эффекты этих грибов мало изучены. При этом начаты исследования воздействия грибных экстрактов на мозговые ритмы и мышечную активность [3].

Целью настоящего исследования является проверка воздействия водных, эфирных и спиртовых экстрактов воздействия водных, эфирных и спиртовых экстрактов речноисчерченной, так и гладкой мускулатуры. При этом исследовали как ЦНС-опосредованную двигательную активность при пероральном приеме, так и в экспериментах по изучению сократительной активности подвздошной кишки в in vitro эксперименте.

#### МАТЕРИАЛЫ И МЕТОДЫ

#### Сбор грибного сырья

Образец I. rickii на хламидоспоровой стадии был собран на живом дереве Delonix regia, растущем в кампусе Ботанического сада в г. Пуна (штат Махараштра, Индия). Высушенный в сушильном шкафу материал диагностировали по микроморфологическим признакам с помощью микроскопа Маgnus С-40. Препаратыготовили в 5% КОН, реактиве Мельцера и Cotton-Blue по стандартным методикам [4].

#### Изучение ЦНС-опосредованной спонтанной двигательной активности

Опосредованная ЦНС двигательная активность изучалась на подопытных животных (мыши) с использованием перорального приема водного, эфирного и спиртового экстрактов І. rickii. Животных помечали и взвешивали. Двигательную активность (количество движений) фиксировали фотометрически в индивидуальных боксах в течение десяти минут. Контрольный, стандартный и тестируемый экстракты вводили за 30 мин. до начала эксперимента. Через 30 мин. после эксперимента каждому животному проводили повторный тест на оценку активности в течение десяти минут. Отмечалась разница в активности до и после введения контрольного, стандартного и тестируемого экстрактов. Экспериментальные исследования были одобрены Институциональным комитетом по этике животных (SGRS/IAEC/о5-2017-2018) (табл. 1).

#### Изучение сократительной активности гладкой мускулатуры

Куриную подвздошную кишку помещали в стеклянную буксу для сохранения тканей и органов. При изучении ответов кишечной мышечной ткани был соблюден пятиминутный временной интервал, т.е. 30 секунд записи базовой линии, 90 сек времени контакта (реакция на препарат) и последующие три промывания с интервалом в минуту каждый. Биологический анализ был выполнен стандартными методами с использованием экстрактов Inonotus для получения единообразных записей [5] (табл. 2).

#### РЕЗУЛЬТАТЫ И ОБСУЖДЕНИЕ

#### Описание грибного сырья

Плодовые тела – однолетние, сидячие, от плоских до копытообразных, одиночные до черепитчатых, до десяти сантиметров толичной. Вначале мягкие и мясистые, затем твердеющие и, наконец, по мере развития хламидоспор, хрупкие и рассыпающиеся в порошок.

Верхняя поверхность вначале войлочная, золотисто-коричневая, затем грубощетинистая. Поверхность пор бледно-коричневая, поры угловатые, 2-3 на миллиметр.

Ткань темно-ржаво-коричневая, концентрически-зональная, твердая и, под конец, порошащая, до шести сантиметров толщиной.

Гифальная система мономитическая, с щетинковидными гифами, гифы с простыми септами, 3,5–5 мкм в диаметре. Щетинковидные гифы, заметные в траме трубочек, проходят параллельно их продольной осии, иногда, расходятся в трубочки, голстостенные, с узким извилистым просветом, доходящим почти до кончика, без перегородок, суживающиеся к концу.

Гимениальные щетинки частые, шиловидные толстостенные, темно-коричневые в КОН, редко раздвоенные на конце, 15–20 на 4–6 мкм, прямые. Хламидоспоры – в изобилии в тканях, толстостенные, темно-красновато-коричневые в КОН, Мельцер-негативные, неправильной формы, гладкие, шаровидные до эллипсовидных или часто с удлиненными цилиндрическими отростками, 9–25 мкм в наибольшем измерении, стенка – до трех мкм толщиной.

Гриб растет налиственных породах теплого пояса северного полушария (в Индии на Delonix regia, Pongamia glabra, Tamarindus indica, Sapthodia campanulata) [6].

#### Результаты изучения сократительной активности глад-

Основные результаты изучения диапазона сокращения мускулатуры куриной подвздошной кишки (мм) под действием как природного нейромедиатора (ацетилхолин), так и эфирного, этанольного и водного экстрактов I. rickii показаны в табл. 2 и на рис. 1.

Дозы (мл) препаратов для изучения стимулирующего воздействия на ЦНС экстрактов Inonotus rickii

Табл. 1. Table 1.

 $\textbf{Doses (ml) of preparations for studying the stimulating effect on the central nervous system of {\it Inonotus rickii} extracts$ 

Кофеин	Диазепам	Диэтиловый эфир (экстракт)	Этанол (экстракт)	Вода (экстракт)
167	88	134	135	179
160	78	140	138	175
155	75	139	130	182
170	90	142	126	172
171	85	136	134	178
155	85	137	122	180

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#### БИОЛОГИЧЕСКИЕ НАУКИ





Рис. 1. Протокол изучения диапазона сокращения мускулатуры куриной подвздошной кишки (мм) под действием природного нейромедиатора (ацетилхолин) и экстрактов Inonotus rickii

Fig. 1. Protocol for studying the range of contraction of the muscles of the chicken ileum (mm) under the action of a natural neurotransmitter (acetylcholine) and extracts of Inonotus rickii

Дозы (мл) препаратов для изучения стимулирующего воздействия на ЦНС экстрактов Inonotus rickii

Табл. 2. Table 2.

Doses (ml) of preparations for studying the stimulating effect on the central nervous system of Inonotus rickii extracts

Доза (мл)	Ацетилхолин	Диэтиловый эфир (экстракт)	Этанол (экстракт)	Вода (экстракт)
0.1	24	20	18	25
0.2	28	19	21	29
0.4	29	19	20	30
0.8	25	20	24	31
1.6	26	19	21	29

этаты изучения ЦНС-опосредованной спонтанной двигат активности под воздействием экстрактов Inonotus rickii

Results of studying the CNS-mediated spontaneous locomotor activity under the influence of Inonotus rickii extracts

Препарат	Усиление двигательной активности (%)
Кофеин	23
Диазепам	12
Эфирный экстракт	20
Этанольный экстракт	19
Водный экстракт	26

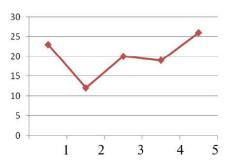


Рис. 2. Результаты изучения ЦНС-опосредованной спонтанной двигательной активности под воздействием экстрактов Inonotus rickii: 1 – кофеин, 2 – диазепам, 3 – эфирный экстракт, 4 – этано экстракт, 5 – водный экстракт

Fig. 2. Results of studying the CNS-mediated spontaneous locomotor activity under the influence of Inonotus rickii extracts: 1 - caffeine, 2 diazepam, 3 - ether extract, 4 - ethanol extract, 5 - aqueous extract

Как видим, все экстракты I. rickii показывают заметный эффект – усиление сокращения гладких мышц, как это имеет место и в природе, посредством ацетилхолина, Дозировка в 0,1 мл эфирного, этанольного и водного экстрактов дает приращение сократительной активности на 20, 18 и 25% соответственно (природный ацетилхолин дает приращение в 24%). Ступенчатое увеличение дозировки (0,2, 0,4, 0,8 и 1,6 мл) мало сказывается на действии эфирного и этанольного экстрактов I. rickii, которые вызывают увеличение сократительной активности в пределах 19-24%, но довольно отчетливо – на действии водного экстракта. Это действие эффективнее на 1% при дозировках в 0,1, 0,2 и 0,4 мл, на 6% при дозировке в 0,8 мл и 3% при дозировке в 1,6 мл. Эффективность водного экстракта гриба связана со снятием тормозящего действия диэтилового эфира и этанола на холинэргические рецепторы.

#### Результаты изучения ЦНС-опосредованной спонтанной двигательной активности

Основные результаты изучения опосредованной ЦНС-спонтанной двигательной активности подопытных животных под воздействием экстрактов I. rickii сведены в табл. 3 и визуализированы на рис. 2.

Как видно из этих материалов, водный экстракт I. rickii показал увеличение двигательной активности по сравнению со стандартным кофеином на 3%, т.е. проявляет стимулирующую ЦНС активность. Водный экстракт I. rickii показывает сокращение гладкой мускулатуры подобно стандартному ацетилхолину. Диазепам, а также эфирный и спиртовой экстракты I, rickii вызывали незначительное усиление спонтанной двигательной активности (12, 20 и 19% соответственно).

Обобщая полученные нами данные, можно заключить, что сырье I. rickii проявляет фармакологическую активность в отношении мышечных сокращений. Следовательно, оно содержит вещества, являющиеся агонистами холинэргических рецепторов. Часть наблюдавшихся эффектов опосредованы ЦНС по линии висцеральной регуляции функций.

Большую активность водных экстрактов в сравнении с эфирным и спиртовым мы связываем с тормозным

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влиянием этанола и диэтилового эфира на рецепторы ЦНС и синапсы.

На повестку дня встает фракционирование экстрактов l. rickii с целью очистки действующего на рецепторы биоакruвного вещества. Хламидоспоровая стадия гриба представлена большей частью споровой массой; как известно, споры гриба более богаты экстрагируемыми органическими веществами, нежели мицелий, содержащий большее количество воды.

Область возможного приложения такого рода веществ - кардиоваскулярное ремоделирование, поддержание тонуса гладкой мускулатуры при ряде оперативных вмешательств, а также паллиативная терапия злокачественных новообразований.

#### выводы

- Inonotus rickii принадлежит к роду деревообитающих грибов, ряд изученных представителей которого (прежде всего, I. obliquus), хорошо изучены в фармакологическом отношении.
- Хламидоспоровая стадия I. rickii, представленная богатыми содержанием экстрагируемых органических веществ спорами, представляет интерес как сырье для приготовления экстрактов и тестирования их биологической активности.

- Изучено воздействие водного, эфирного и спиртового экстрактов плодовых тел дереворазрушающего гриба I. rickii на двигательную активность, являющуюся результатом сокращения как поперечноисчерченной, так и гладкой мускулатуры.
- 4. Основные результаты изучения диапазона сокращения мускулатуры куриной подвадошной кишии под действием как природного нейромедиатора (ацетилхолин), так и эфирного, этанольного и водного экстрактов І. rickli показали, что все экстракты І. rickli показывают заметный эффект: усиление сокращения гладких мышц, как это имеет место и в природе, посредством ацетилхолина.
- Изучение опосредованной ЦНС-спонтанной двигательной активности подопытных животных под воздействием экстрактов І. rickii показали, что водный экстракт проявляет сокращение гладкой мускулатуры подобно стандартному ацетилхолину.
- 6. На повестку дня встает фракционирование экстрактов I. rickii с целью очистки действующего на рецепторы биоактивного вещества.
- Область возможного приложения такого рода веществ кардиоваскулярное ремоделирование, поддержание тонуса гладкой мускулатуры при ряде оперативных вмешательств, а также паллиативная терапия злокачественных новообразований.

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#### СПИСОК ЛИТЕРАТУРЫ

- 1. Змитрович, И.В. Чага и ее биоактивные комплексы: история и перспективы / И.В. Змитрович, Н.П. Денисова, М.Э. Баландайкин [и др.] // Формулы Фармации. 2020. Т. 2. № 2. С. 84–93. DOI: 10.17816/phf34803/2713-153X-2020-2-2-84-93.
- 2. Змитрович, И.В. Профилактика и лечение рака с использованием сырья «лекарственных грибовь» критика, факты, перспективные проблемы / И.В. Змитрович, В.В. Перелыгин, В.А. Власенко [и др.] // Формулы Фармации. 2020. Т. 2. № 4. С. 18–26. DOI: 10.17816/phf55224.
- 3. Макромицеты: лекарственные свойства и биологические особенности / под редакцией С.П. Вас-

- сера. Киев: Институт ботаники им Н.Г. Холодного, 2012. – 285 с.
- 4. Змитрович, И.В. Типы гиф полипороидных и плевротоидных грибов: терминологическая ревизия / И.В. Змитрович, В.Ф. Малышева, Е.Ф. Малышева // Украинский ботанический журнал. 2009. Т. 66. № 1. С. 71–87.
- 5. Kulkarni SK. Handbook of Experimental Pharmacology. Delhi: Vallabh Prakashan; 2012.
- 6. Pegler DN. A survey of the genus *Inonotus* (*Polyporaceae*). Transactions of the British Mycological Society. 1964; 47 (2): 175–95.

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#### **Activity: Research Paper**

#### БИОЛОГИЧЕСКИЕ НАУКИ



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Авторы заявляют, что у них нет конфликта интересов.

# Investigating the effects of *Inonotus rickii* extracts on the muscle contraction intensity

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The aim of this study is to test the effect of aqueous, ethereal and alcoholic extracts of the fruit bodies of the wood-destroying fungus Inonotus rickii on locomotor activity resulting from contraction of both cross-striated and smooth muscles. The pharmacological activity of I. rickii raw materials was determined in vitro using the dose-response curve method (smooth muscles) and in experiments with oral intake of extracts (CNS-mediated effects on cross-lacing muscles). The aqueous extract of fungal material showed an increase in the motor activity of smooth muscles compared to standard caffeine, which indicates the ability of fungal extract to have a stimulating effect on the synapses. It was found that I. rickii extracts have an effect on smooth muscle contraction similar to the acetylcholine. It was shown that the greatest stimulating activity demonstrates an aqueous extract that may be a result of inhibitory effect of diethyl ether and ethanol on synapses. The described effects put on the agenda both the fractionation of active extracts and further experiments on the therapeutic applications of their described properties. As a field of possible application of this kind of substances can be considered the cardiovascular remodeling, the maintenance of smooth muscle tone during a number of surgical interventions, and the palliative cure of disseminated cancers.

**KEYWORDS:** acetylcholine; central nervous system; diazepam; caffeine; medicinal mushrooms; receptor agonists; stimulation of motor activity; Inonotus

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Criterion III 134 | P a g e

### MOU 10: SHREENATH MASKOBA SAHAKARI KARKHANA LTD.



#### MEMORANDUM OF UNDERSTANDING

For

#### ACADEMIC EXCHANGE

And

#### **CO-OPERATION**

Between

#### PDEA'S ANNASAHEB MAGAR MAHAVIDYALAYA, HADAPSAR, PUNE

(NAAC Re-Accredited "B" Grade and Best College Award by SPPU)

And

#### SHREENATH MASKOBA SAKHARI KHARKHANA LTD.



This Memorandum of Understanding (MOU) is entered into on 22 /06 /2020 by and among P.D.E.A.'s Annasaheb Magar Mahavidyalaya, Hadapsar, Pune-28, an affiliated College of Savitribai Phule Pune University, Pune and SHREENATH MASKOBA SAKHAR KHARKHANA LTD. Shreenath Nagar, Patedhan, Tal-Daund, Dist.-Pune.

The purpose of this MOU is to establish a framework for collaborative relationship to improve the skills of the students in the field of Life Sciences.

#### Scope:

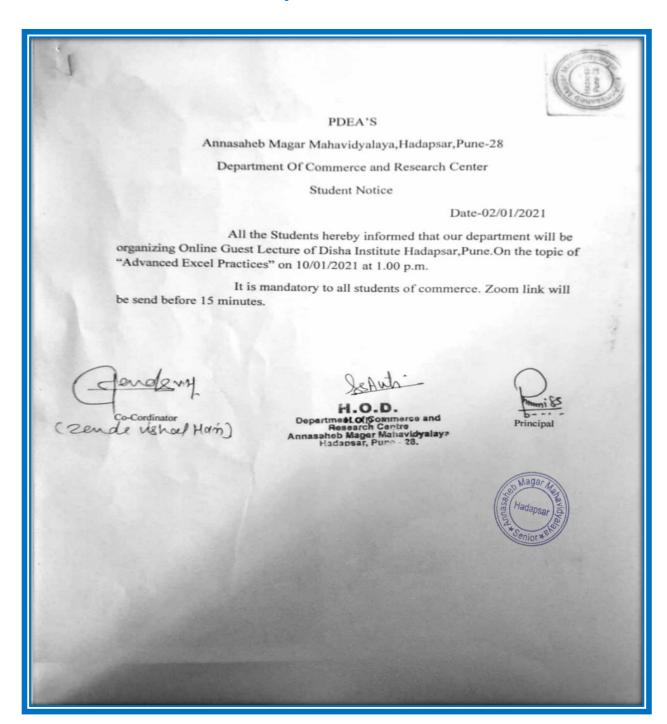
With due respect of each other independence and mutual benefits, both the institutes will conduct the following activities:

- \* Development of curriculum of skill oriented courses in Life Sciences.
- \* Faculty sharing.
- \* Infrastructure sharing.
- \* Imparting career oriented education and skills to students.

Criterion III 135 | P a g e

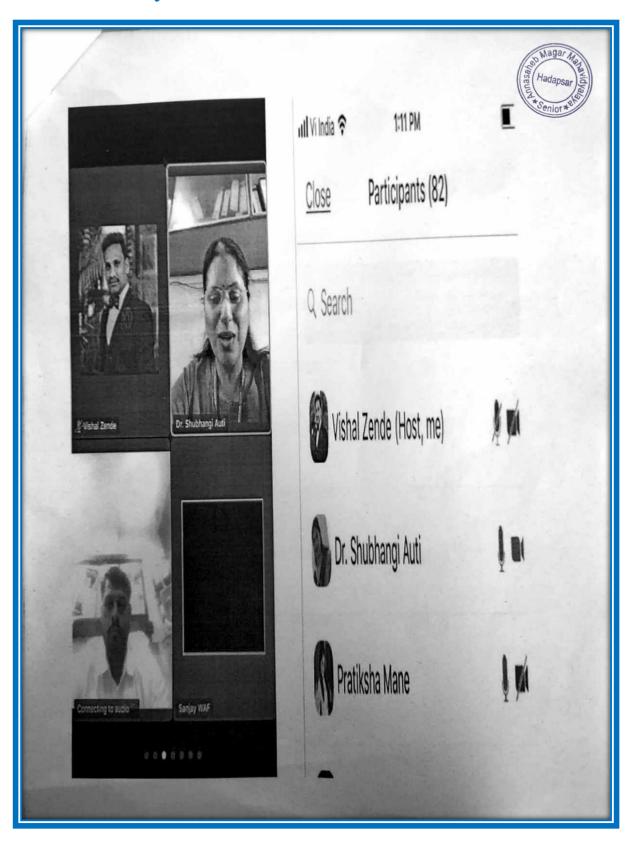
### MOU 10: SHREENATH MASKOBA SAHAKARI KARKHANA LTD.

**Guest Lecture Activity: Advanced Excel Practices Activity: Student Notice** 



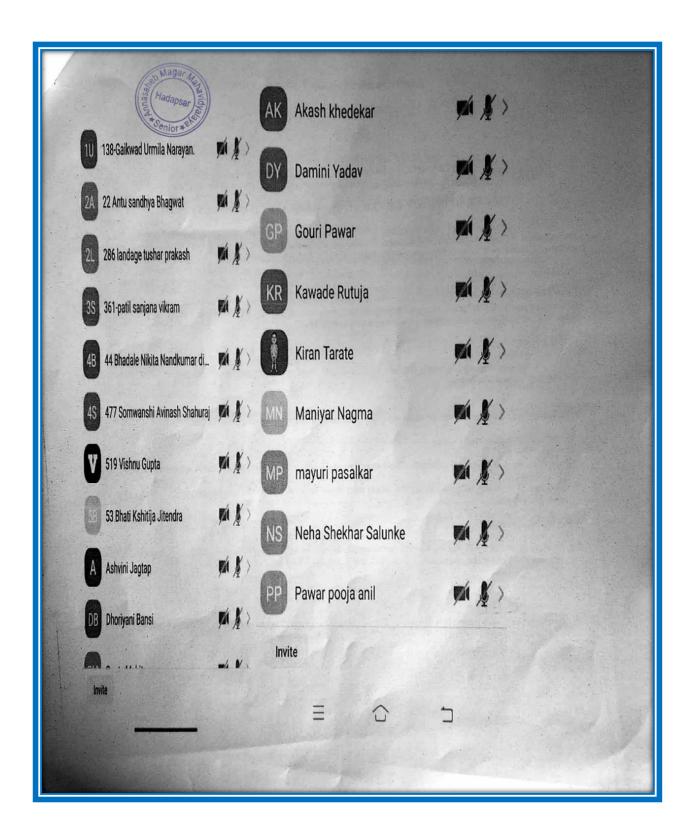
Criterion III 136 | P a g e

# **Activity: Teacher Attendance and Photo's**



Criterion III 137 | P a g e

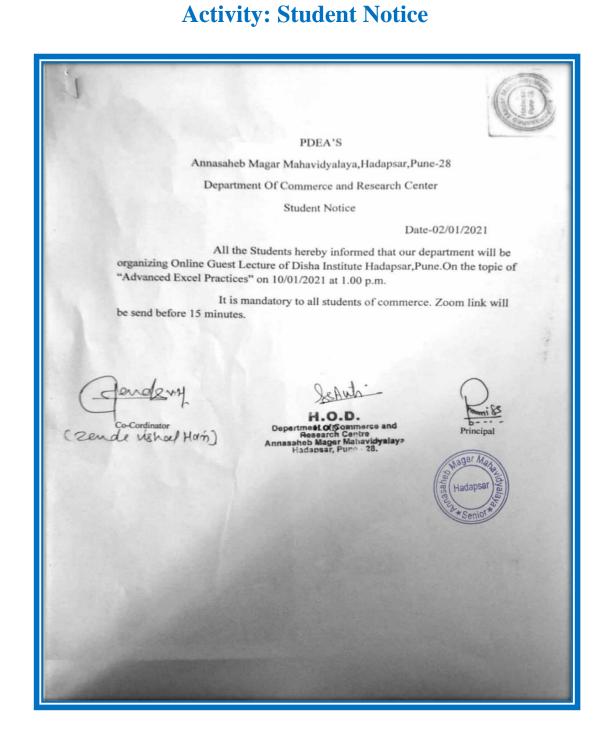
### **Activity: Student Attendance and Photo's**



Criterion III 138 | P a g e

# MOU 10: SHREENATH MASKOBA SAHAKARI KARKHANA LTD.

Guest Lecture Activity: Taxation System and Process Costing in Sugar Industry



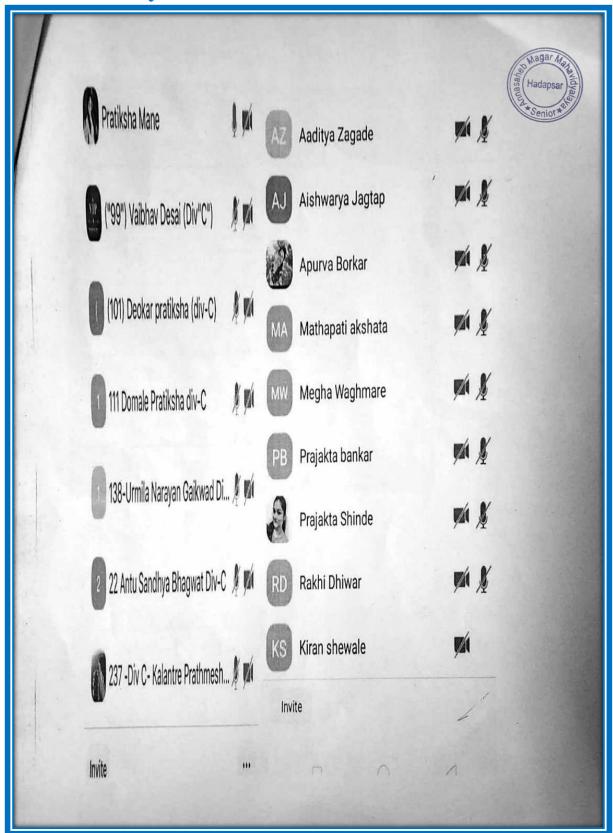
Criterion III 139 | P a g e

## **Activity: Teachers Attendance and Photo's**



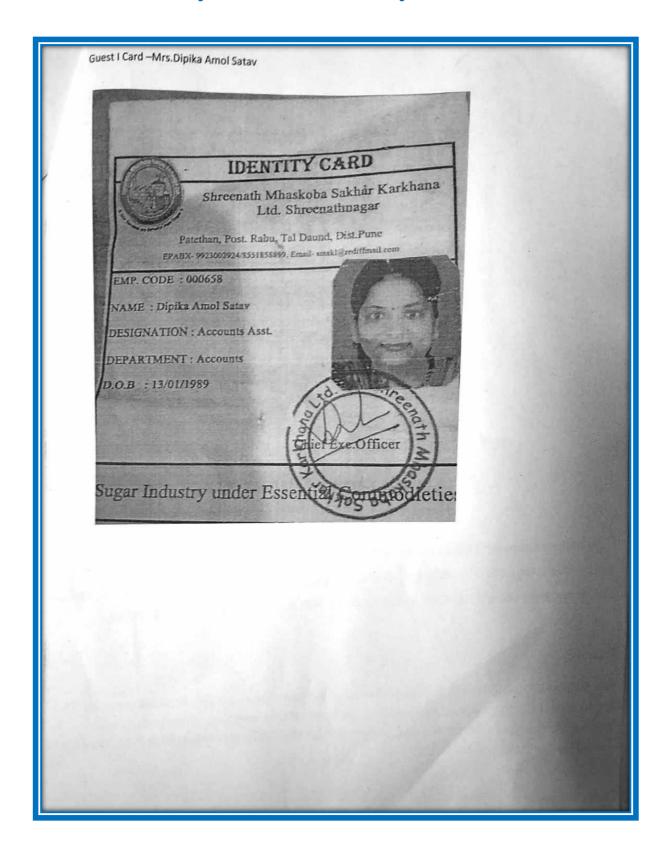
Criterion III 140 | P a g e

### **Activity: Student Attendance and Photo's**



Criterion III 141 | P a g e

### **Activity: Student Identity Card Photo**



Criterion III 142 | P a g e

#### MOU 11: MAHARASHATRA SAHITYA PARISHAD



# सामंजस्य करार



शैक्षणिक गुणवत्ता



सहकार्य

यासाठी

पुणे जिल्हा शिक्षण मंडळाचे, अण्णासाहेब मगर महाविद्यालय, हडपसर, पुणे मराठी विभाग

आणि

महाराष्ट्र साहित्य परिषद हडपसर शाखा, हडपसर, पुणे

दिनांक डिसेंबर २०१५ रोजी हा सामंजस्य करार (MOU) पुणे जिल्हा शिक्षण मंडळाचे, अण्णासाहेब मगर महाविद्यालय, हडपसर, पुणे, मराठी विभाग आणि महाराष्ट्र साहित्य परिषद, हडपसर शाखा, पुणे यांच्यात होत आहे.

उद्देश:

हा करार दोन्ही संस्थाच्या संयुक्त विद्यमाने विविध साहित्यिक उपक्रमांचे आयोजन करून महाविद्यालयातील, विद्यार्थ्यांमध्ये साहित्यिक व कलाभिरुची विकसित करणे, साहित्याची जाण वाढवणे, वाचन-लेखन कौशल्ये विकसित करणे यासाठी अधिक उपयुक्त ठरेल.

#### **MOU 11: MAHARASHATRA SAHITYA PARISHAD**

सामंजस्य करारातील तरत्दी:

आदरयुक्त मैत्रीपूर्ण, सामंजस्यपूर्ण संबंधाने स्वतंत्र आणि समांतर लाभ समोर ठेवून दोन्ही संस्थांकडून पढील उपक्रम राबविण्यात यावेत.

- १) वाचन-लेखन कौशल्ये विकसित करण्यासाठी उपक्रमांचे आयोजन करणे.
- २) विषय तज्ज्ञ आदान-प्रदान
- 3) आवश्यक मुलभूत स्विधांचे आदान-प्रदान
- ४) साहित्य क्षेत्रातील रोजगाराच्या संधी संदर्भात कौशल्ये विकास कार्यशाळांचे आयोजन करणे.
- भाहित्यिक व्याख्याने, संमेलन, ग्रंथ प्रदर्शन इत्यादींचे आयोजन करणे.

हा सामंजस्य करार दोन्ही संस्थांनी स्वाक्षरी केल्यानंतर पुढील पाच वर्षाच्या कालावधीसाठी मर्यादित असेल. करार कालावधी संपल्यानंतर पुन्हा दोन्ही संस्थां करार करून न्तनीकरण करू शकतील.

ग. डी. एस. कदम

उप-प्राचार्य.

अण्णासाहेब मगर महाविद्यालय,

महाविद्यालय,

हडपसर, प्णे -२८

डॉ. बी. एस. बेंद्रे

प्राचार्य.

अण्णासाहेब मगर महाविदयालय,

हडपसर, पृपो-२८

अंड. संदीप कदम

मानद सचिव.

डॉ. शोभा पाटील

हा भीका। पार

मराठी विभाग प्रमुख,

अण्णासाहेब मगर हडपसर, पुणे -२८

5.6-113

पा. नितीन लगड

कार्यवाह

महाराष्ट्र साहित्य परिषद,

19 cse

हडपसर शाखा,पुणे

प्रा. जे. पी. देसाई

पुणे जिल्हा शिक्षण मंडळ, पुणे महाराष्ट्र साहित्य परिषद, हडपसर शाखा, पुणे



#### **MOU 11: MAHARASHATRA SAHITYA PARISHAD**

Guest Lecture Activity: Marathi Language Skill Development Program

**Activity: Notice** 

पुणे जिल्हा शिक्षण मंडळाचे अण्णासाहेब मगर महाविद्यालय, हडपसर, पुणे – २८ मराठी विभाग

# सूचना

दि. १३/०१/२०२१

महाविद्यालयातील सर्व शिक्षकेतर कर्मचारी यांना कळविण्यात येते की, शुक्रवार दि. १५ जाने २०२१ रोजी सकाळी ११. ०० वाजता मराठी भाषा पंधरवडा दिनानिमित मराठी विभाग व महाराष्ट्र साहित्य परिषद, शाखा हडपसर यांच्या संयुक्त विद्यमाने 'कार्यालयीन मराठी – भाषिक कौशल्यविकास' या विषयावरील एक दिवसीय कार्यशाळेचे आयोजन केले आहे. तरी आपण सर्वांनी या कार्यशाळेचा लाभ घ्यावा. कळावे.



मराठी विभागप्रमुख अण्णासाहेव मगर महाथिद्यालय हडपसर, पुणे-४११ ०२८.

	Annasaheb Magar Mahavidyalaya, Hada Department of Marathi Academic Year 2020-21 Attendance Record	*Senior*
Subject	- ब्रायमियीन मरिहा: भाषिक की	Date: 15/01/202/
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#### **Activity: Report**

पुणे जिल्हा शिक्षण मंडळाचे अण्णासाहेब मगर महाविद्यालय, हडपसर, पुणे – २८ मराठी विभाग एकदिवसीय कार्यशाळा अहवाल 'कार्यालयीन मराठी : भाषिक कौशल्ये विकास'



दि.१५ जानेवारी २०२१ रोजी मराठी विभाग व महारष्ट्र साहित्य परिषद, हडपसर शाखा यांच्या संयुक्त विद्यमाने शिक्षकेतर कर्मचारी यांच्यासाठी 'कार्यालयीन मराठी : भाषिक कौशल्ये विकास' या विषयावरील एकदिवसीय कार्यशाळेचे आयोजन करण्यात आले होते. कार्यालयात सुलभपणे मराठी भाषिक कौशल्याचा वापर कसा करावा, मराठीतून अर्जलेखन, टिप्पणी लेखन, प्रशासकीय पत्रलेखन याविषयी डॉ. शोभा पाटील यांनी मार्गदर्शन केले. कार्यालयात विविध स्वरूपाचे अर्ज, पत्र येत असतात. त्यावेळी त्यांना त्याचे थोडक्यात उत्तरे द्यावी लागतात. त्यासाठीची भाषा ही सरळ,साधी व सोपी वापरावी. छोटी व सुटसुटीत वाक्ये असावीत. प्रशासकीय अर्ज, टिप्पणी व पत्रलेखनाची भाषा ही प्रमाण भाषा असावी. त्यासाठी चे शुद्धलेखनाचे नियम डॉ. शोभा पाटील यांनी अत्यंत सोप्या भाषेत शिक्षकेतर कर्मचाऱ्यांना समजावून सांगितले.

यावेळी महाविद्यालयाचे प्राचार्य डॉ. पंडित शेळके, मराठी विभागप्रमुख डॉ. प्रवीण ससाणे, डॉ. शोभा तितर, प्रा. अनिता गाडेकर, प्रा. निवृत्ती टार्फे, प्रा. सागर कांबळे उपस्थित होते. या एकदिवसीय कार्यशाळेचे आयोजन मराठी विभागाने प्राचार्यांच्या मार्गदर्शनाखाली केले. सूत्रसंचालन प्रा. वंदना सोनवले यांनी केले तर आभार डॉ. शोभा तितर यांनी मानले.

मराठी विभाग प्रमुख अण्णासाहेब ममर महाविद्यालय हउपसर, पुणे-४११ ०२८.