 <p>बहुजन हिताय बहुजन सुखाय PIDEA PUNE DISTRICT EDUCATION ASSOCIATION</p>	<p>Pune District Education Association's Anantrao Pawar College, Pirangut. Tal. - Mulshi, Dist. - Pune, Pune - 412 115.</p>		
Name of Department	Botany	Academic Year	2021-2022

Name of the Course: Add on Course on Terrarium and Terrace Gardening


Duration: 04/08/2021 to 18/08/2021

Number of Students

Enrolled: 15

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	<p>Pune District Education Association's</p> <p>Anantrao Pawar College, Pirangut.</p> <p>Tal. - Mulshi, Dist. - Pune, Pune - 412 115.</p>		
Name of Department	Botany	Academic Year	2021-2022

NOTICE

Add on Course on Terrarium & Terrace Gardening

All the students of FY/SY/TY B.A/B.Com./B.Sc. are hereby informed that, the **Add-on Course** on "Terrarium & Terrace Gardening " is being organized to enhance business skills and entrepreneurship and creative skills from **04/08/2021 to 18/08/2021,(30 Hours)** by the Department of Botany.

Students, who are interested, can register their names with Prof. A. M. Shete by Date 31st July 2021.



Co-ordinator




Principal

Anantrao Pawar College, Pirangut
Tal. Mulshi, Dist. Pune - 412115,



P.D.E.A's

Anantrao Pawar College

(Pirangut)



& Mesh Enterprises



Jointly organized Online Add on Course on

Terrarium & Terrace Gardening



These interactive sessions will be conducted by

Mrs. Aruna Herekar

Starting From 4th to 18th August 2021

Timing 3.00 PM to 5.00 PM



- Session I - Introduction, Basics of Gardening
- Session II - Plant Propagation Tech.
- Session III - Plant Nutrition
- Session IV - Common Pests / Disease
- Session V - Microgreens / Soilless Garden
- Session VI- Different Technical Gardens like Terrarium, Dish Garden
- Session VII – Bonsai : Art, Aesthetics and Styles
- Session VII _ Complimentary Fruit & Vegetable Dehydration ---

Fees: Rs 1000/- (Can be paid through registration link)

Registration contact : 8149032793

Form link: <https://forms.gle/WU9NeruiJKSf5BZZ8>

Follow this link to join the WhatsApp group:


Dr. Pravin Cholke
Vice-Principal

Dr. M. R. Avaghade
Vice-Principal

Dr. Sharmila Chaudhari
Principal

<https://chat.whatsapp.com/LIG6yguMgy77G3v2c5ugnn>.



	<p>Pune District Education Association's</p> <p>Anantrao Pawar College, Pirangut.</p> <p>Tal. - Mulshi, Dist. - Pune, Pune - 412 115.</p>		
Name of Department	Botany	Academic Year	2021-2022

List of Students enrolled for add on Course

Add on Course on Terrarium and Terrace Gardening

Sr. No.	Name of the student	Sr. No.	Name of the student
1.	Manoj Sagat	9.	Darshan Mungase
2.	Mahesh Chaudhari	10.	Pooja Nikate
3.	Yogesh Naik	11.	Pranali Ozarkar
4.	Arati Dhumal	12.	Rutuja Kandhare
5.	Nilofar Shaikh	13.	Adesh Jadhav
6.	Trupti Chavan	14.	Vaishnav Daundkar
7.	Vaishnavi Budhkar	15.	Sachin Daundkar
8.	Pooja Kadam		




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Name of Department	Botany	Academic Year	2021-2022


Add on Course on Terrarium and Terrace Gardening

Syllabus

Sr. No.	Name of the Topic	No. of Theory Lectures	Practical	Teaching hours
I	Introduction, Basics of Gardening	02	01Hour	3 Hours
II	Plant Propagation Tech.	02	2 Hours	4 Hours
III	Plant Nutrition	02	2 Hours	4 Hours
IV	Common Pests / Disease	02	2 Hours	4 Hours
V	Micro greens / Soilless Garden	02	2 Hours	4 Hours
VI	Different Technical Gardens like Terrarium, DishGarden	02	2 Hours	4 Hours
VII	Bonsai : Art, Aesthetics and Styles	02	2 Hours	4 Hours
VIII	Complimentary Fruit & Vegetable Dehydration	01	2 Hours	3 Hours
	Total	15	15	30 Hours


Co-ordinator




Dr. Chandhari S. R.
Principal
Anantrao Pawar College, Pirangut
Tal. Mulshi, Dist. Pune - 412115,

METHODS OF EVALUATION, PASSING, AND EVALUATION CRITERIA:-

The college has adopted the following methods for assessment:-

- a. Assignments
- b. Oral
- c. Written examination

STANDARD OF PASSING

A student is required to obtain minimum 40% marks in the Assessment, and Course End Examination.

It means that passing separately at internal assessment, and course end examination is compulsory.

EVALUATION CRITERIA

- a. Assignments - 20 Marks
- b Oral examination - 10 Marks.
- c. Written examination - 20 Marks

50 Marks




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Dr. Chandhari S. R.
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Name of Department	Botany	Academic Year	2021-2022

TIME -TABLE

Add on Course on Terrarium & Terrace Gardening

Duration: 04/08/2021 to 18/08/2021

Sr. No.	Date	Time	Theory/ Practical
1	04/08/2021	Time: 3.00 P.M. To 5.00 P.M.	Theory: Introduction, Basics of Gardening
2	05/08/2021	Time: 3.00 P.M. To 5.00 P.M.	Theory: Plant Propagation Tech.
3	06/08/2021	Time: 4.30 P.M. To 6.30 P.M.	Practical: Introduction, Basics of Gardening
4	07/08/2021	Time: 3.30 P.M. To 5.30 P.M.	Practical: Plant Propagation Tech.
5	08/08/2021	Time: 3.30 P.M. To 5.30 P.M.	Theory: Plant Nutrition
6	09/08/2021	Time: 4.00 P.M. To 6.00 P.M.	Practical: Plant Nutrition
7	10/08/2021	Time: 4.00 P.M. To 6.00 P.M.	Theory: Common Pests / Disease
8	11/08/2021	Time: 3.30 P.M. To 5.30 P.M.	Practical: Different Technical Gardens like Terrarium,
9	12/08/2021	Time: 4.00 P.M. To 6.00 P.M.	Theory: Bonsai : Art, Aesthetics and Styles
10	13/08/2021	Time: 4.30 P.M. To 6.30 P.M.	Practical: Complimentary

			Fruit & Vegetable Dehydration
11	14/08/2021	Time: 4.30 P.M. To 6.30 P.M.	Theory: Complimentary Fruit & Vegetable Dehydration
12	15/08/2021	Time: 4.00 P.M. To 6.00 P.M.	Practical: Bonsai : Art, Aesthetics and Styles
13	16/08/2021	Time: 4.00 P.M. To 6.00 P.M.	Theory: Complimentary Fruit & Vegetable Dehydration
14	17/08/2021	Time: 4.30 P.M. To 6.30 P.M.	Practical: Common Pests / Disease
15	18/08/2021	Time: 4.30 P.M. To 6.30 P.M.	Theory & Practical: Dish Garden

Arang


Co-ordinator



Dr. Chandhari S. R.

Principal

**Anantrao Pawar College, Pirangut
Tal. Mulshi, Dist. Pune - 412115,**

	Pune District Education Association's Anantrao Pawar College, Pirangut. Tal. - Mulshi, Dist. - Pune, Pune - 412 115.		
Name of Department	Botany	Academic Year	2021-2022

REPORT
Add on Course
Terrarium and Terrace Gardening Report

The terrace garden is an urban attribute and nowadays reality. In modern times, homes with compounds, lawns, and yards are extinguishing with flats gaining popularity. In cities and towns, skyscrapers are substituting such homes. As an effect, the private home gardens are vanishing, and the only places left for gardening are roofs, terraces, and balconies.

The course was designed with an objective **of enhancing the business and entrepreneurship skills. It would be an option of self-employment for the students with creative skills.**


The Add-on Course was open for all the students of FY/SY/TY B.A/B.Com./B.Sc. It was held between **04/08/2021 to 18/08/2021**. **15** students enrolled for the course and attended 30 hours of lectures and practical training during 04/08/2021 to 18/08/2021. **Mrs. Aruna Herekar**, from MESH, subject and field expert, has taken online lectures and practicals as per given time table and syllabus. Exams were held after completion of the designed syllabus. Evaluation was done based on written exam, oral and assignments (submission of photographs). Certificates were issued to all the students who actively participated and completed the course successfully.

04 Students have started working as freelance consultants in the suburbs of Pune and Pimpri Chinchwad.



Co-ordinator




Dr. Chandhari S. R.
Principal
Anantrao Pawar College, Pirangut
Tal. Mulshi, Dist. Pune - 412115,

Attendance: Screenshots of the lecture (online mode)

WhatsApp Meet - fzc-itzv-uyi

meet.google.com/fzc-itzv-uyi

Aruna Herekar is presenting

Plant nutrients

- Basic elements -17
- Non essential
- Essential
- Primary major and secondary major
- Vegetative
- Flowering
- Beneficial elements

4:36 PM | fzc-itzv-uyi

Participants: Aruna Herekar, Rekha Joshi, Pranali Ozarkar, Arati Dhupal, pratiksha bhale..., Ashok Sasane, anand mahajan, 6 others, You.

WhatsApp Meet - fzc-itzv-uyi

meet.google.com/fzc-itzv-uyi

Aruna Herekar is presenting

Manure

- Manures are plant and animal wastes that are used as sources of plant nutrients.
- They release nutrients after their decomposition.
- Major source-Cattle shed wastes-dung, urine and slurry from biogas plants
- Human habitation wastes-night soil, human urine, town refuse, sewage and sludge.

4:45 PM | fzc-itzv-uyi

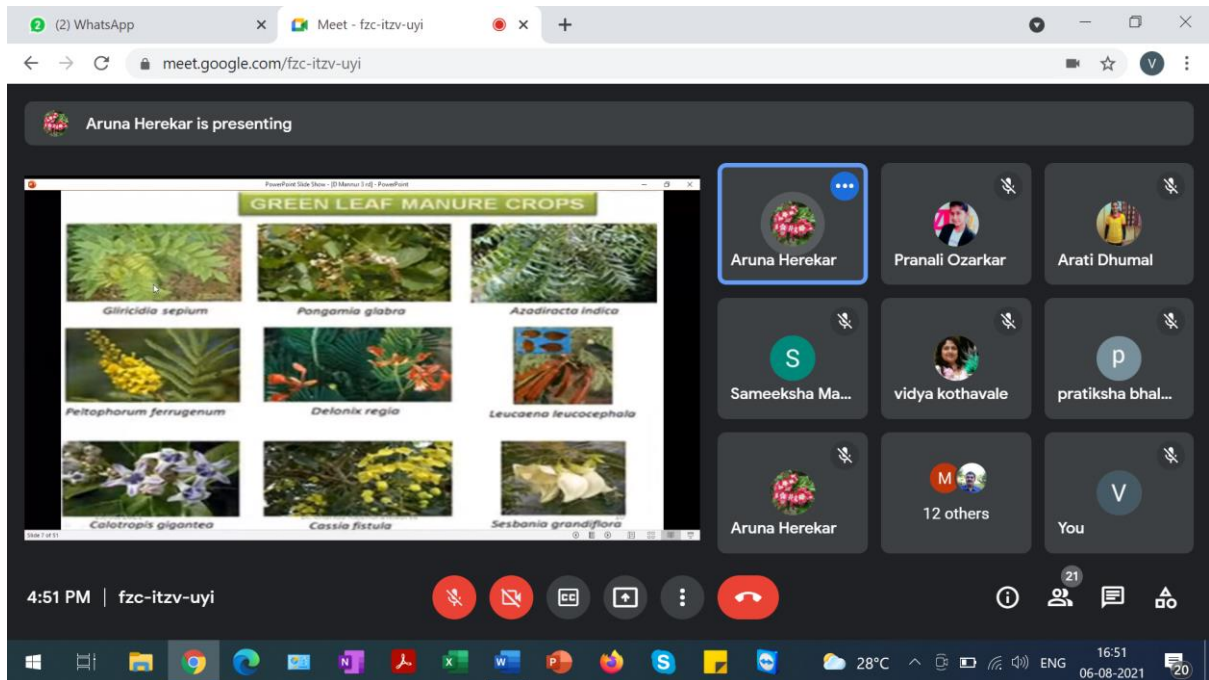
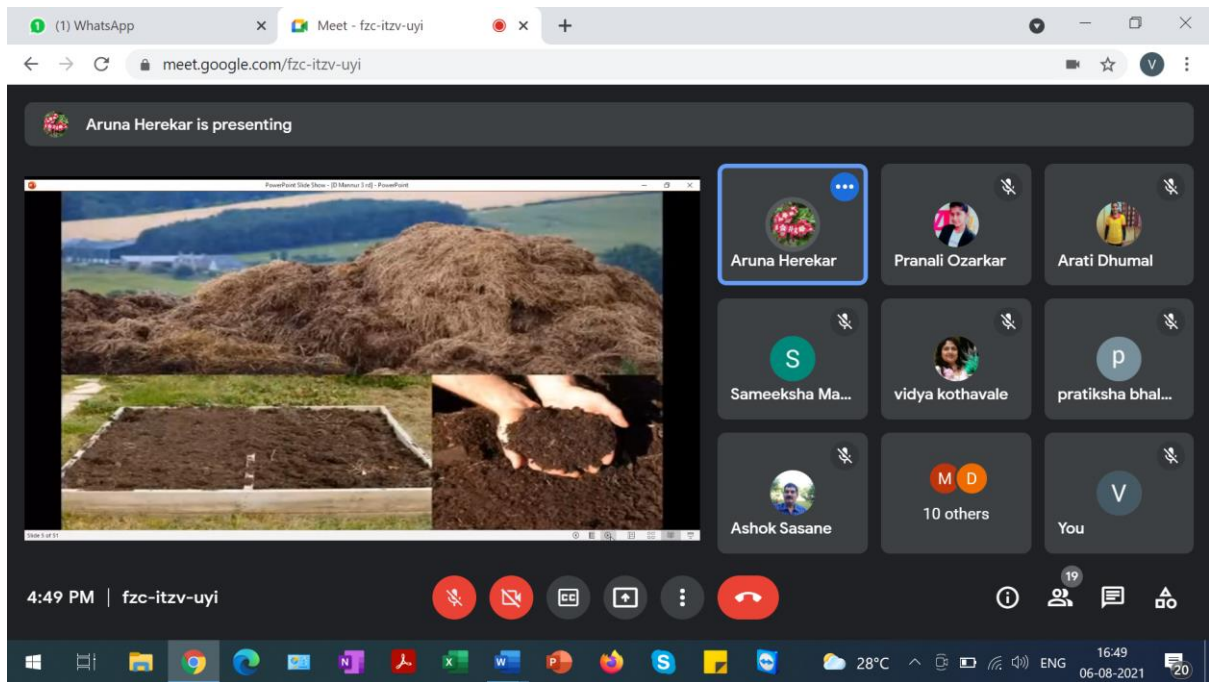
Participants: Aruna Herekar, Ashok Sasane, Pranali Ozarkar, Arati Dhupal, Sachin Boyware, vidya kothavale, pratiksha bhale..., 10 others, You.

Aruna

Co-ordinator



Dr. Chandhari S. R.
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Tal. Mulshi, Dist. Pune - 412115,



Aruna

Co-ordinator




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Tal. Mulshi, Dist. Pune - 412115,

WhatsApp x Meet - fzc-itzv-uyi

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Aruna Herekar is presenting



CLUSTER BEAN
SESBANIA ACULEATA
COW PEA
CROTALARIA JUNCSEA
SESBANIA ROSTRATA

5:03 PM | fzc-itzv-uyi

28°C 17:03 06-08-2021

(1) WhatsApp x Meet - fzc-itzv-uyi

meet.google.com/fzc-itzv-uyi

Aruna Herekar is presenting



Mulching

- Mulching is an essential component of the garden that is often overlooked.
- It save time in the long run by reducing time spent weeding, watering, fertilizing, and controlling pests.
- Mulch is a biodegradable layer of organic material added to the top of soil in a garden.
- Retains moisture
- Prevents erosion
- Creates humus
- Fertilizes
- Suppresses weeds
- Makes an attractive top dressing

5:05 PM | fzc-itzv-uyi

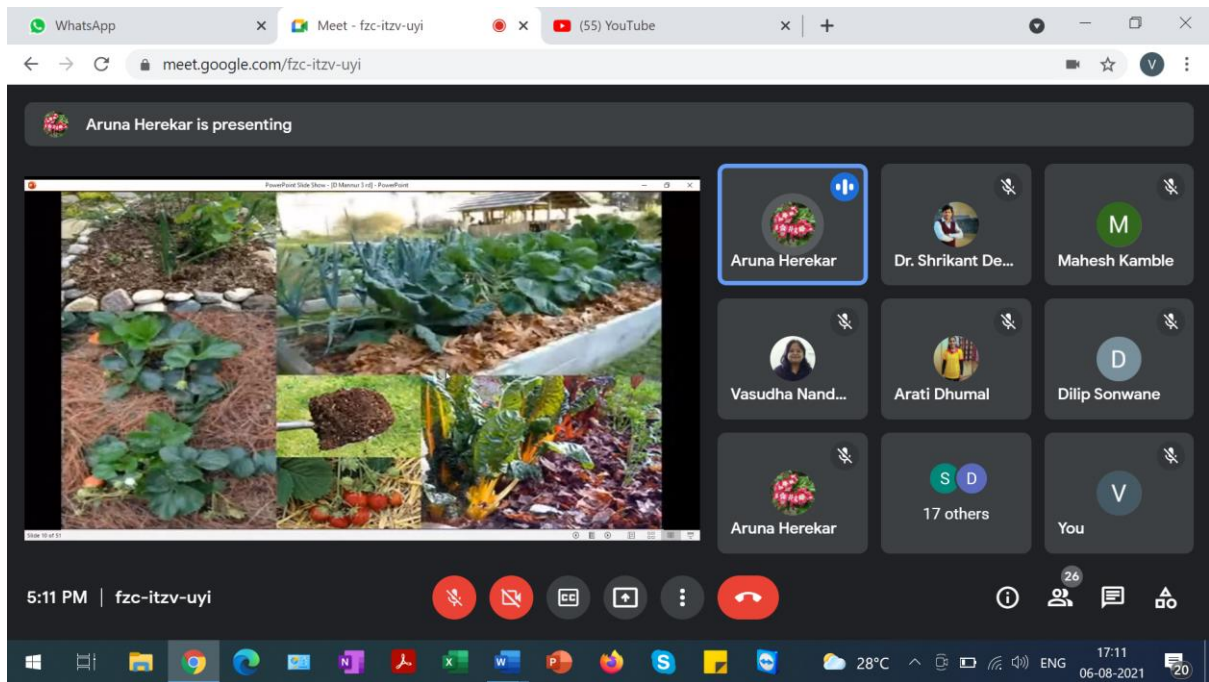
28°C 17:06 06-08-2021

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Co-ordinator



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Tal. Mulshi, Dist. Pune - 412115,

WhatsApp x Meet - fzc-itzv-uyi (55) YouTube x +

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Aruna Herekar is presenting

Aruna Herekar

Dr. Shrikant De...

Maresh Kamble

Vasudha Nand...

Arati Dhumal

Dilip Sonwane

Aruna Herekar

17 others

You

5:13 PM | fzc-itzv-uyi

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Aruna Herekar is presenting

Aruna Herekar

Dr. Shrikant De...

Maresh Kamble

Vasudha Nand...

Arati Dhumal

Dilip Sonwane

Aruna Herekar

17 others

You

5:16 PM | fzc-itzv-uyi

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Aruna Herekar is presenting

5:19 PM | fzc-itzv-uyi

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Aruna Herekar is presenting

Bone meal

- Bone meal is a fine powder made from animal bones that have been boiled or steamed, then pulverized.
- The resulting powder is rich in nutrients, which makes it an excellent garden fertilizer.
- Great Source of Phosphorus, calcium and nitrogen.
- Good food for flowering and fruiting plants

5:22 PM | fzc-itzv-uyi

Windows taskbar: File Explorer, Chrome, Edge, Outlook, Word, PowerPoint, Firefox, Teams, OneDrive, Weather (27°C), Date (06-08-2021), Time (17:22).

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Principal
Anantrao Pawar College, Pirangut
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Aruna Herekar is presenting



Vermicompost

Vermicompost is nothing but the excreta of earthworms, which is rich in humus and nutrients.

We can rear earthworms artificially in a brick tank or near the stem / trunk of trees (specially horticultural trees).

- By feeding these earthworms with biomass and watching properly the food (bio-mass) of earthworms, we can produce the required quantities of vermicompost.
- Source of all nutrients

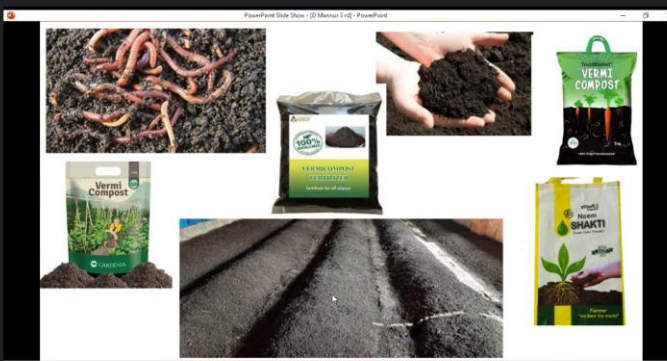
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Aruna Herekar is presenting



5:25 PM | fzc-itzv-uyi

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Aruna Herekar is presenting

Basics

- All composting requires three basic ingredients:
- Browns** - This includes materials such as dead leaves, branches, and twigs.
- Greens** - This includes materials such as grass clippings, vegetable waste, fruit scraps, and coffee grounds.
- Water** - Having the right amount of water, greens and browns is important for compost development.

5:30 PM | fzc-itzv-uyi

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Aruna Herekar is presenting

A COMPOST RECIPE TO FEED YOUR SOIL.

Top Layer (GREEN)

Second Layer (BROWN)

Third Layer (GREEN)

Fourth Layer (BROWN)

KEEP MOIST: As wet as a wrung out sponge.

AERATE: Air helps to speed up decomposition. Aeration should be done throughout the entire composting process.

KEEP COVERED: Use a compost lid, cardboard or canvas cover top of your pile.

5:31 PM | fzc-itzv-uyi

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5:32 PM | fzc-itzv-uyi

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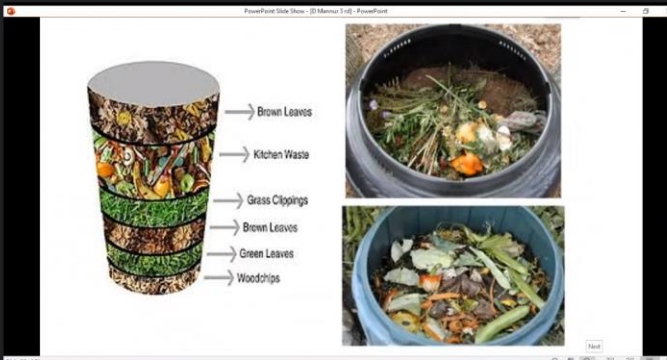


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Aruna Herekar is presenting



5:33 PM | fzc-itzv-uyi

Participants: Aruna Herekar, Rekha Joshi, Sameeksha Ma..., Vasudha Nand..., pratiksha bhale..., Dilip Sonwane, 10 others, You.

System tray: 27°C, 17:33, 06-08-2021

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Aruna Herekar is presenting



5:34 PM | fzc-itzv-uyi

Participants: Aruna Herekar, Rekha Joshi, Sameeksha Ma..., Vasudha Nand..., pratiksha bhale..., Dilip Sonwane, 10 others, You.

System tray: 27°C, 17:34, 06-08-2021

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Co-ordinator



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Aruna Herekar is presenting

Not to Compost

- **Diseased or insect-ridden plants**
- Diseases or insects might survive and be transferred back to other plants
- **Fats, grease, lard, or oils***
- Create odor problems and attract pests such as rodents and flies
- **Meat or fish bones and scraps***
- Create odor problems and attract pests such as rodents and flies

5:35 PM | fzc-itzv-uyi

27°C 17:35 06-08-2021

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Aruna Herekar is presenting

Other sources of nutrients

- **Banana peel-dry-potassium and phosphorus**
- **Eggshell, bone meal-calcium**
- **Cooking water—Multinutrients**
- **Aquarium water—rich source of N**
- **Wood ash—Ca, K, P and others**

5:40 PM | fzc-itzv-uyi

27°C 17:40 06-08-2021

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Aruna Herekar is presenting

Biofertilizers

- Biofertilizer is a ready-to-use live formulation of such beneficial microorganisms which on application to seed, root or soil, mobilize the availability of nutrients by their biological activity.
- They help build up the soil micro-flora and there by the soil health.
- Organic farming excludes the use of any chemical.
- Use of bio-fertilizer is recommended for improving the soil fertility in organic farming

5:40 PM | fzc-itzv-uyi

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Aruna Herekar is presenting

Classification

- 1) For Nitrogen fixation
 - Rhizobium for legume crops.
 - Azotobacter / Azospirillum for non legume crops.
 - Acetobacter for sugarcane only.
 - Blue -Green Algae (BGA) and Azolla for low land paddy.
- 2) For Phosphorus
 - Phosphatika for all crops to be applied with Rhizobium, Azotobacter,
 - VAM (Vesicular-arbuscular mycorrhiza)
- 3) For Enriched Compost
 - Cellulolytic fungal culture.
 - Phosphotika and Azotobacter culture

5:41 PM | fzc-itzv-uyi

Windows taskbar: 27°C, 17:41, 06-08-2021

Arang

Co-ordinator




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Principal
Anantrao Pawar College, Pirangut
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Aruna Herekar is presenting



Rhizobium
Rhizobium lives in the root hairs of the legumes by forming nodules

MBF RHIZOBIUM NITROGEN FIXING BACTERIA

JU RHIZOMAX PULSES BIO FERTILIZER

5:42 PM | fzc-itzv-uyi


Aruna Herekar, Ramkrishna Dh..., Sameeksha Ma..., Vasudha Nand..., vaishnav daun..., Dilip Sonwane, 11 others, You

27°C 17:42 06-08-2021

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Aruna Herekar is presenting



Aviral Azospirillum Culture
सभी फसलों के लिए
Aviral Bio-Tech & Fertilisers Pvt. Ltd.
B-10, Phase II, Sector 10, Gurgaon, Haryana 122001
Contact No: 98100 12345
Email: aviral@aviralbio.com
AN ISO 9001:2008 CERTIFIED COMPANY

abtec

5:42 PM | fzc-itzv-uyi

Aruna Herekar, Ramkrishna Dh..., Sameeksha Ma..., Vasudha Nand..., vaishnav daun..., Dilip Sonwane, 11 others, You

27°C 17:42 06-08-2021

Arung

Co-ordinator



Dr. Chandhari S. R.
Principal
Anantrao Pawar College, Pirangut
Tal. Mulshi, Dist. Pune - 412115,

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Aruna Herekar is presenting

5:43 PM | fzc-itzv-uyi

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Co-ordinator



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Aruna Herekar is presenting

5:44 PM | fzc-itzv-uyi

27°C 17:44 06-08-2021

Arung

Co-ordinator



Dr. Chandhari S. R.
Principal
Anantrao Pawar College, Pirangut
Tal. Mulshi, Dist. Pune - 412115,



Pune District Education Association's
ANANTRAO PAWAR COLLEGE, PIRANGUT
(Affiliated to Savitribai Phule Pune University)

Terrarium & Terrace Gardening *CERTIFICATE*

This is to certify that Mr. Manoj Sagat has successfully completed 15 days online Add on course on "Terrarium & Terrace Gardening" held from 04 August 2021 to 18 August 2021 at PDEA's Anantrao Pawar College, Pirangut.

MRS. A.S.HEREKAR
Co-Ordinator

DR. P. B. CHOLKE
Vice - Principal

DR. M. R. AVAGHADE
Vice - Principal

DR.S.R.CHAUDHARI
Principal



Pune District Education Association's
ANANTRAO PAWAR COLLEGE, PIRANGUT
(Affiliated to Savitribai Phule Pune University)

Terrarium & Terrace Gardening *CERTIFICATE*

This is to certify that Mr. Mahesh Chaudhari has successfully completed 15 days online Add on course on "Terrarium & Terrace Gardening" held from 04 August 2021 to 18 August 2021 at PDEA's Anantrao Pawar College, Pirangut.

MRS. A.S.HEREKAR
Co-Ordinator

DR. P. B. CHOLKE
Vice - Principal

DR. M. R. AVAGHADE
Vice - Principal

DR.S.R.CHAUDHARI
Principal



Pune District Education Association's
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Terrarium & Terrace Gardening *CERTIFICATE*

This is to certify that Mr. Yogesh Naik has successfully completed 15 days online Add on course on "Terrarium & Terrace Gardening" held from 04 August 2021 to 18 August 2021 at PDEA's Anantrao Pawar College, Pirangut.

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Vice - Principal

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Principal



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Terrarium & Terrace Gardening *CERTIFICATE*

This is to certify that Ms. Pranali Ozarkar has successfully completed 15 days online Add on course on "Terrarium & Terrace Gardening" held from 04 August 2021 to 18 August 2021 at PDEA's Anantrao Pawar College, Pirangut.

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Terrarium & Terrace Gardening *CERTIFICATE*

This is to certify that Ms. Arati Dhumal has successfully completed 15 days online Add on course on "Terrarium & Terrace Gardening" held from 04 August 2021 to 18 August 2021 at PDEA's Anantrao Pawar College, Pirangut.

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Principal



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Terrarium & Terrace Gardening *CERTIFICATE*

This is to certify that Ms. Nilofar Shaikh has successfully completed 15 days online Add on course on "Terrarium & Terrace Gardening" held from 04 August 2021 to 18 August 2021 at PDEA's Anantrao Pawar College, Pirangut.

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Terrarium & Terrace Gardening *CERTIFICATE*

This is to certify that Ms. Trupti Chavan has successfully completed 15 days online Add on course on "Terrarium & Terrace Gardening" held from 04 August 2021 to 18 August 2021 at PDEA's Anantrao Pawar College, Pirangut.

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Vice - Principal

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Principal



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Terrarium & Terrace Gardening *CERTIFICATE*

This is to certify that Ms. Vaishnavi Budhkar has successfully completed 15 days online Add on course on "Terrarium & Terrace Gardening" held from 04 August 2021 to 18 August 2021 at PDEA's Anantrao Pawar College, Pirangut.

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Vice - Principal

DR.S.R.CHAUDHARI
Principal



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Terrarium & Terrace Gardening *CERTIFICATE*

This is to certify that Ms. Pooja Kadam has successfully completed 15 days online Add on course on "Terrarium & Terrace Gardening" held from 04 August 2021 to 18 August 2021 at PDEA's Anantrao Pawar College, Pirangut.

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This is to certify that Ms. Pooja Nikate has successfully completed 15 days online Add on course on "Terrarium & Terrace Gardening" held from 04 August 2021 to 18 August 2021 at PDEA's Anantrao Pawar College, Pirangut.

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Vice - Principal

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Principal



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Terrarium & Terrace Gardening *CERTIFICATE*

**This is to certify that Ms. Rutuja Kandhare has successfully completed 15 days
online Add on course on "Terrarium & Terrace Gardening" held from 04 August
2021 to 18 August 2021 at PDEA's Anantrao Pawar College, Pirangut.**

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Vice - Principal

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Principal



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Terrarium & Terrace Gardening *CERTIFICATE*

This is to certify that Mr. Darshan Mungase has successfully completed 15 days online Add on course on "Terrarium & Terrace Gardening" held from 04 August 2021 to 18 August 2021 at PDEA's Anantrao Pawar College, Pirangut.

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Principal



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Terrarium & Terrace Gardening *CERTIFICATE*

This is to certify that Ms. Adesh Jadhav has successfully completed 15 days online Add on course on "Terrarium & Terrace Gardening" held from 04 August 2021 to 18 August 2021 at PDEA's Anantrao Pawar College, Pirangut.

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Terrarium & Terrace Gardening *CERTIFICATE*

This is to certify that Mr. Vaishnav Daundkar has successfully completed 15 days online Add on course on "Terrarium & Terrace Gardening" held from 04 August 2021 to 18 August 2021 at PDEA's Anantrao Pawar College, Pirangut.

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DR. M. R. AVAGHADE
Vice - Principal

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Principal



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Terrarium & Terrace Gardening *CERTIFICATE*

**This is to certify that Mr. Sachin Daundkar has successfully completed 15 days
online Add on course on "Terrarium & Terrace Gardening" held from 04 August
2021 to 18 August 2021 at PDEA's Anantrao Pawar College, Pirangut.**

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Vice - Principal

DR.S.R.CHAUDHARI
Principal