PUNE DISTRICT EDUCATION ASSOCIATON'S

ANANTRAO PAWAR COLLEGE

PIRANGUT. TAL. MULSHI. DIST. PUNE 412 115

COURSES-BROUCHURE

CERTIFICATE, ADD-ON, SHORT-TERM & DIPLOMA COURSES

2020-21

DIPLOMA AND CERTIFICATE COURSES (2020-21)

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Pune District Education Association's

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

Academic Year- 2020-21

Name of the Add-on/ Certificate/ Value added program	:	**Diploma in Organic Urban Farming**
Duration	:	One Year

INDEX

Sr.No.	Document
1	Notice / Brochure (Name of the program,)
2	List of students enrolled (with signature of students)
4	Time-Table (duration)
5	Report (Summary report)
6	Attendance sheet
7	Certificates

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

Anantrao Pawar College * Pirangut, Pune-412115 *

Anantrao Pawar College Pirangut, Pune-412115

Pune District Education Association's

Anantrao Pawar College, Pirangut

Date: 29/09/2020

Important Notice for Students

All the students enrolled for **Diploma Course: Organic Urban Farming** are hereby informed that the lectures and Practicals of this course will be start from 01/10/2020.

Attendance is compulsory for all the enrolled students.

Coordinator

Prof. A.M. Shete

Principal

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

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A Diploma in Organic Farming

CLASS: Open to all students of the college	**DURATION: 01 YEAR**
COORDINATOR: Prof Akshay Shete	**CONTACT NO:8888422298**

Objectives of the Course: To increasing the employment opportunity for rural youth at village level in organic market as organic grower, stakeholders, and entrepreneurs. To create first generation organic agriculture extension workers, field workers and organic growers at village level.

- To create work force which will help/guide/learn the techniques for doubling farmer's income at village level like reducing input cost/inputs management, multilayer cropping, crop waste management, nutrient management, water management etc.
- To impart skills at village level required for organic farming practices and related marketing economics.

Syllabus

Sr. No.	Name of the Course	Course Content(s)	Lectures (Hrs)		Intake	Course Fee (Rs.)
			T*	PP*		
1	Organic Farming	Introduction, Concept/ Philosophies, Principles and Need of organic farming.	36	15	50	3600
2		Soil health, Conversion to organic with soil health management, Crop management, Nutrient Management and Pest Management and Multilayer cropping system base farm planning.	36	15		
3		Composting and recycling of organic matter in organic Agriculture	36	15		
4		On-farm input generation and resource management.	36	15		
5		Traditional organic input preparation/formulation of Biofertilizer, biopesticides, plant health promoters.	36	15		
6		Economics of organic farming, System.	36	15		
7		Branding of rural products, FSSAI, marketing and packaging of organic produce, Current Government schemes related to organic farming.	36	15		
8		Economics of organic farming, System.	36	15		

T*- Theory P**- Practical

Learning Outcomes:

- Develop critical understanding on various aspects of agronomy.
- The nutrition and application of nutrients to plants.
- The cropping methods and crop rotation
- Realize various weed management practices.

Job Opportunities:

- Organic Agricultural or Food Scientist
- Organic Agricultural Sciences Teacher Postsecondary
- Organic Farmer or Rancher
- Organic Certifying Agent
- Organic Niche Retailer

Dr. Sharmila R. Chaudhari
Principal
Anantrao Pawar College, Pirangut

"A gap in skills and abilities reveal a golden opportunity"

SYLLABUS OF DIPLOMA IN ORGANIC URBAN FARMING

As per the guidelines of NSQF it is expected to include Skill component of the courses can vary from 60 % to 70% of the total credits, and the balanced credits shall be of general education component. In this syllabus Skill component is of 60% and General Component is of 40% i.e. respectively 18 credits and 12 Credits for Practical's and Theory.

Semester wise Papers and Workload.

Semester I				Semester II			
Papers	**Type**	**Credits**	**Hrs.**	**Papers**	**Type**	**Credits**	**Hrs**
Paper I	**Theory**	**2.4**	**36**	**Paper I**	**Theory**	**2.4**	**36**
Paper II	**Theory**	**2.4**	**36**	**Paper II**	**Theory**	**2.4**	**36**
Paper III	**Theory**	**2.4**	**36**	**Paper III**	**Theory**	**2.4**	**36**
Paper IV	**Theory**	**2.4**	**36**	**Paper IV**	**Theory**	**2.4**	**36**
Paper V	**Theory**	**2.4**	**36**	**Paper V**	**Theory**	**2.4**	**36**
Paper VI	**Practical**	**4**	**120**	**Paper VI**	**Practical**	**4**	**120**
Paper VII	**Practical**	**4**	**120**	**Paper VII**	**Practical**	**4**	**120**
Paper VIII	**Practical**	**4**	**120**	**Paper VIII**	**Practical**	**4**	**120**
Hands on Training	**Hands on Training**	**06**	**180**	**Hands on Training**	**Hands on Training**	**06**	**180**
		30	**720**			**30**	**720**
Total Credits in a year 60/ 1440 Hrs.							

प्राचार्य
अनंतराव पवार महाविद्यालय, पिरंगुट
ता. मुळशी, जि.पुणे-४१२११५.

Diploma in Fruits and Vegetables Drying/ Dehydration Technician:- Outline of the Syllabus			
Semester I		Semester II	
DOT 111: Theory Paper I	Core Subject: Introduction to organic Urban Farming (36 Lectures)	DOT 211: Theory Paper I	Diseases and Pests of vegetable and Fruits (36 Lectures)
DOT112: Theory Paper II	Vegetable Cultivation Part-I (36 Lectures)	DOT 212: Theory Paper II	Bio fertilizers and Bio pesticides(36 Lectures)
DOT 113: Theory Paper III	Vegetable Cultivation Part-II (36 Lectures)	DOT 213: Theory Paper III	Packing, Grading, Direct Marketing and organic Certification (36 Lectures)
DOT 114: Theory Paper IV	Vegetable & Fruits PlantssCultivation Part-III (36 Lectures)	DOT 214: Theory Paper IV	Organic Farming Management(36 Lectures)
DOT 115: Theory Paper V	General and Environment Education (36 Lectures)	DOT 215: Theory Paper V	General Education (36 Lectures)
DOP 116 : Practical Paper I	- Practical Based on Paper I and II (30 P)	DOP 216: Practical Paper I	Practical Based on Paper II (30P)
DOP 117: Practical Paper II	Practical Based on Paper III (30 P)	DOP 217: Practical Paper II	Practical Based on Paper I (30 P)
DOP 118: Practical Paper III	Practical Based on Paper IV and V (30 P)	DOP 218: Practical Paper III	Practical Based on Paper III, IV and V (30 P)

Semester: - First (30 Credits)

DOT 111: Paper: - I: - Core Subject: - Introduction to organic Urban Farming (36 L)

Course Outcome: -

- To introduce the student for organic farming.
- To provide the actual practical knowledge of Organic farming.
- To provide knowledge of ancient as well as modern technologies.
- To develop agriculture skill in student.
- To develop self-employability in student.

1.	**Concept and Definition of organic Urban farming**	**06**
	Concept, Definition, Present status at industrial level in India and Maharashtra.	
2	**Need and advantages of organic farming**	**06**
	Need of organic farming, Advantages of organic farming, Role of Desi cow in organic farming and Cow dung and urine based products.	
3	Importance of Crop rotation	03
	Crop Rotation method, Crop Plant use in Crop rotation	
3	**Equipment's of organic urban farming**	**04**
	Pots, Racks, Sprayer, Garden tools, Power trailer, Seed Processor, Harvesting Equipment	
4	**Selection of Site**	**03**
	Components of site selection- soil quality, sunlight, water availability	
5	**Biology of the plant**	**04**
	Morphology and anatomy of plant parts with function, Type of Tissue, Xylem, Phloem, Stomata.	

6	**Physiology of Plants:-**	**06**
	Photosynthesis, Dormancy, Transpiration, Ascent of sap, Plant Growth regulators, Physiology of Flowering, Stress physiology	
7	**Role of Abiotic Factors in plant life**	**04**
	Water, Soil, Humidity, Rainfall and Wind	

Refreneces:-

Plant propogation, Hatman and Koster. Principle and practices

Plant physiology, S.N. Pandey and B.K. Sinha (2014), Vikas Publishing House Pvt. Ltd. India

A.T.B of Plant Physiology, Verma S.K. and Verma Mohit (2007) S. Chand Publications.

Indian Agriculture Book,Dr. Anirudh Kumar, Indian books periodicals Publications.

Organic Farming, Suresh N. Deshnukh, Agrobios Publications.

DOT 112: Paper II: - Core Subject: - Vegetable Cultivation Part-I (36 Lectures)

Course Outcome: -

- To providing the basic knowledge of vegetable.
- To develop skill of cultivation technique of Organic vegetable.
- To understand actual irrigation method.
- To cultivate vegetable in pots.
- To manipulate the production of vegetables.
- This method useful for small area farming or terrace farming.

1	**Basic Practices for Preparation of Plantlet Nursery**	**08**
	Bed Preparation, Control conditions, Nursery, Coco peat, Tray for Seed Germination	
2	**With reference to Climate and soil, Water, humidity and varieties, Land**	**09**

	preparation and Planting, Crop understanding, Irrigation, Pest, Disease and Harvesting of leafy vegetables Part:- I	
	Fenugreek, Coriander, Spinach, amaranths, Dill,	
3	**With reference to Climate and soil, Water, humidity and varieties, Land preparation and Planting, Crop understanding, Irrigation, Pest, Disease and Harvesting of leafy vegetables Part:- II**	**09**
	Green onion, Cabbage, Lemon Grass	
4	**With reference to Climate and soil, Water, humidity and varieties, Land preparation and Planting, Crop understanding, Irrigation, Pest, Disease and Harvesting of Fruit vegetables**	**10**
	Brinjal, Tomato, Cucumber, Pumpkin, Okra, Chilly	

Refreneces:-

Organic farming ,Daniel Howard,(2008), Published by Dominant Publisher, New Delhi.

Traditional Organic Farming Practices, E. Somasudaram, D.Ubhaya Nandini (2018), New India Publishing Agency.

Organic farming Component and Management, Dushant Gehlot, , Agrobios Publications Pvt. Ltd.

Organic Urban Farming, Prabal Mallik, The Indian Way, L.L. Somani, Agrotech Publisher Pvt. Ltd.

DOT 113: Paper III: - Vegetable Cultivation Part-II (36 Lectures)

Course Outcome: -

- To providing the basic knowledge of vegetable.

- To develop skill of cultivation technique of Organic vegetable.
- To understand actual irrigation method.
- To understand the method of vegetable cultivation in pots
- To manipulate the production of vegetables
- This method useful for small area farming or terrace farming

1	**Land Preparation for Cultivation**	**05**
	Soil type, Soil Nutrients management, Soil Bed Preparation.	
2	**Irrigation system installment and water management**	**05**
	Basin Irrigation, Sprinkler, Drip Irrigation, Nutrition through Irrigation System.	
3	**With reference to Climate and soil, Water, humidity and varieties, Land preparation and Planting, Crop understanding, Irrigation, Pest, Disease and Harvesting of underground vegetables:- Part:- I**	**05**
	Turnip, Potato, Sweet potato, Ginger, Turmeric	
4	**With reference to Climate and soil, Water, humidity and varieties, Land preparation and Planting, Crop understanding, Irrigation, Pest, Disease and Harvesting of underground vegetables:- Part:- II**	**05**
	Onion, Garlic, Carrot, Radish, Beet Root	
5	**With reference to Climate and soil, Water, humidity and varieties, Land preparation and Planting, Crop understanding, Irrigation, Pest, Disease and Harvesting of vegetables with Pods:-:- Part:- I**	**09**
	Cultivation of French Beans, Peas, Drum Stick,	
6	**With reference to Climate and soil, Water, humidity and varieties, Land preparation and Planting, Crop understanding, Irrigation, Pest, Disease and Harvesting of vegetables with Pods:-:- Part:- II**	**07**
	Snow Peas, Kokan Wal-White n Black, Cluster bean/Guvar Beans	

Refreneces:-

Principles of Organic Farming, P.L. Moliwal, Scientific Publishers Pvt. Ltd.

Organic Farming in Rainfed Agriculture, B.Venkateswartu, , Central Research Institute for Dryland.

Organic farming Component and Management Dushant Gehlot, , Agrobios Publications Pvt. Ltd

Organic Crop Production, Ted Goldammer, , Apex Publishers.

Organic Crop Production, S.S. Walia, Scientific Publishers.

DOT 114: Paper IV: - Vegetable and Fruits Cultivation Part-III (36 Lectures)

Course Outcome: -

- To develop the self-employability
- To complete the daily requirement of vegetable requirement by using small spaces of building
- To provide the actual practical knowledge of vegetable cultivation
- Also develop the supporting product related to organic farming
- To provide training of apiculture
- To developed new parameter of agriculture employability through Spirulina Culturing, mushroom Cultivation.

1	**With reference to Climate and soil, Water, humidity and varieties, Land preparation and Planting, Crop understanding, Irrigation, Pest, Disease and Harvesting of Climbing vegetables:-:- Part:- I**	**08**
	Bitter Gourd, Ridge Gourd, Snake Gourd, Cucumber. Hadga	
2	**With reference to Climate and soil, Water, humidity and varieties, Land preparation and Planting, Crop understanding, Irrigation, Pest, Disease and Harvesting of Exotic vegetables:- Part:- I**	**08**
	Cherry Tomato, Zucchini, Broccoli, Lettuce, Color Capsicum, Asparagus, Parsley, Celery, Red Cabbage, Cauliflower	

3	**With reference to Climate and soil, Water, humidity and varieties, Land preparation and Planting, Crop understanding, Irrigation, Pest, Disease and Harvesting of Fruits Plants-:- Part:- I**	**08**
	Papaya, Ficus, Mango, Jamun, Guava, Sapota.	
4	**Cultivation of Fruits plant:- Part:- I**	**04**
	Strawberry, Grapes.	
5	**Cultivation of Mushrooms**- edible and poisonous, culturing and production	**03**
	Introduction, Types of Mushrooms, Cultivation technology for Oyster	
6	**Cultivation of *Spirulina***	**02**
	Introduction, Mud pot Cultivation of *Spirulina*, Benefits of *Spirulina*	
7	**Apiculture**	**03**
	Definition, tools required in bee keeping, Harvesting of Honey.	
8	Desi Cow Management and their Product	
	Milk, Curd, Butter, Ghee, Cow urine based products.	

Refreneces:-

Traditional Organic Farming Practices, E. Somasudaram, D.Ubhaya Nandini (2018), New India Publishing Agency.

Organic farming Component and Management, Dushant Gehlot, Agrobios Publications Pvt. Ltd.

Apiculture in India, Ankit Khandelwal, Indian Councile of Agriculture Reeasrch.

Fundamentals of Beekeeping T.V.Sathe, , Daya Publishing House, New Delhi.

Spirulina, B.V.Umesh, The Dabur Research Foundation, Unicorn Publishers.

Mushroom Cultivation in India, B.C. Suman, V.P. Sharma, Astral International Pvt. Ltd.

DOT 115: Paper V: - General and Environment Education (36 Lectures)

Course Outcome: -

- To develop marketing skill in student.

- To develop communication skill in student.
- To develop positive thinking in student.
- To know the agriculture diversity.
- To understand the effect of pollution and its effect on agriculture sector.
- To understand the effect of toxic substances on soil born organisms.
- To aware the student with global warming.

1	Communication Skills		12
		Self-awareness, Self-management, Social awareness, Relationship management, Cohesion clarity, Friendliness, Confidence, Empathy, Respect, Listening, Open mindedness, Tone of voice, Asking good question	
2	Soft Skills		12
		Communication, Self- motivation, Leadership, Responsibility, Teamwork, Problem solving, Decisiveness, Ability to work under pressure and time management, Flexibility, Negotiation and conflict Resolution.	
3	**Environmental studies (12 L)**		
	1.Biodiversity		**04**
		Definition, Types of Biodiversity, Agro biodiversity and its application.	
	2. Pollution		**04**
		Definition, Types of Pollution, Causes of Pollution, Agriculture and pollution	
	3. Global warming		**04**
		Definition, Factors responsible for global warming, Impact of global warming on Agriculture, Effects of Global warming.	

Refreneces:-

Communication Skill, Sanjay Kumar, Pushpa Lata, OUP India Publishers Pvt. Ltd.

Professional Communication Skill, E.K. Jain, S.Chand Publications.

Text Book of Biodiversity, K.V.Krushnamurthy, CRC PRESS Publishers.

Biological Diversity and its Conservation, Dushyant K.Sharma, Daya Publishing House.

Environmental Pollution, Dr.R.K. Khitoliya, S.Chand Publications.

1. **DOT 116: Paper VI: - Practical Based on Paper I and II (30 P)**
2. Preparation of pots for cultivation.
3. Study of different organic seed quality analysis
4. Seed Treatment for vegetables
5. Cultivation of Fenugreek in Pots
6. Cultivation of Spinach in Pots
7. Cultivation of Coriander in Pots
8. Cultivation of Amaranths in Pots
9. Cultivation of Dill, in Pots
10. Cultivation of Chilly in Pots
11. Cultivation of Green Onion in Pots
12. Cultivation of Cabbage in Pots
13. Cultivation of Lemon grass in Pots
14. Cultivation of Brinjal in Pots
15. Cultivation of Tomato in Pots
16. Cultivation of Cucumber in Pots
17. Cultivation of Pumpkin in Pots
18. Cultivation of Okra in Pots
19. Cultivation of Chilly in Pots
20. Study method of Crop Rotation.
21. Preparation for climbing of climbing vegetables
22. Study proper harvesting method of vegetables.
23. Study of method use in breaking seed dormancy
24. Method of Cow Urine processing
25. Study of different tools use in organic farming
26. Study of transpiration

27. Study of ascent of sap
28. Study of different hormones
29. Study of measurement growth rate parameter.
30. Basic study of installment of Drip irrigation system
31. Use of installment of automatic irrigation system

DOT 117: Paper VII: - Practical Based on Paper III (30 P)

1. Bed preparation For Cultivation
2. Study of site selection parameter for organic cultivation
3. Preparation of Plantlets in Nursery
4. Study organic seed processing
5. Cultivation of Tumip
6. Cultivation of Sweat Potato
7. Cultivation of Ginger
8. Cultivation of Turmeric
9. Cultivation of Onion
10. Cultivation of Garlic
11. Cultivation of Carrot
12. Cultivation of Radish
13. Cultivation of Beet
14. Cultivation of French been
15. Cultivation of Peas
16. Cultivation of Drumstick
17. Cultivation of Snow Peas
18. Cultivation of **Kokan wal**
19. Cultivation of **Lemon grass**
20. Cultivation of **Celery**
21. Cultivation of **Red Cabbage**

22. Study Ecological factor affecting plant growth
23. Study of pH meter handling, measurement of pH by using pH paper.
24. Study Cup anemometer and rainfall measurement instrument.
25. Study of soil sampling method.
26. Study of installment of Drip Irrigation System
27. Study installment Sprinkler irrigation system.
28. Preparation of Beds
29. Study of Soil nutrition management.
30. Study of recycling of plastic buckets for pot

DOT 118: Paper VIII: - Practical Based on Paper IV and V (30 P)

1. Study of multilayered racks
2. Study different pots use in organic pot farming
3. Cultivation of Bitter Guard in Pots
4. Cultivation of Ridge Guard in Pots
5. Cultivation of Snack Guard in Pots
6. Cultivation of Cherry Tomato in Pots
7. Cultivation of Zucchini in Pots
8. Cultivation of Broccoli in Pots
9. Cultivation of Lettuce in Pots
10. Cultivation of Color Capsicum in Pots
11. Cultivation of Asparagus in Pots
12. Cultivation of Parsley in Pots
13. Cultivation of Celery in Pots
14. Cultivation of Strawberry
15. Cultivation of Papaya
16. Cultivation of ficus.
17. Study of packaging of Exotic Vegetables.
18. Study of Preservation technique of Exotic Vegetables

19. Different bio pesticide use in Exotic Vegetable disease management
20. Cultivation of Spirulina.
21. Study of construction of ponds for Spirulina cultivation
22. Cultivation of Button mushroom
23. Cultivation of Oyster mushroom
24. Study of construction of low budget shade and racks for mushroom cultivation
25. Methods of packaging mushroom
26. Culturing of honey bees
27. Study of processing of honey bees
28. Study of preparation of Cow Milk product- Curd, Butter Milk, Butter, Ghee.
29. Study of preparation of Cow urine product- different Gomutra Ark, packaging

30. Study pollutant- Water, Soil, Air

- **Internship:-**

  It is expected to opt for 180 Hrs. Internship in a semester i.e. Daily 06 hrs. for 30 Days On different Farms.

Semester: - Second (30 Credits)

DOT 211: Paper: - I: - Core Subject: - Diseases and Pests of vegetable and Fruits (36 L)

Course Outcome: -

- To learn about disease causing pest.
- To understand the method of studying plant diseases.
- To classify the plant diseases and its pests.
- Familiarize with some common plant diseases of India.
- Gain knowledge on Host parasite interaction process.
- To know about the preventing measures of plant diseases.

1	Fundamentals of diseases of vegetable and fruits.	03

	Introduction, Terminology	
2	Methods of studying Plant diseases.	06
	Macroscopic Diseases, Microscopic Diseases, Culture Technique, Media Types, Media Preparation, Pure culture method, Serial Dilution	
3	Fungal Diseases	04
	Club root of Crucifer, Leaf Curl of Tomato, Leaf spot of Termeric	
4	Bacterial Diseases.	04
	Citrus Canker, Bacterial Soft rot in Tomato, Bacterial spot in cucurbits	
5	Mycoplasma plant diseases.	02
	Little leaf of Brinjal	
6	Nematodal Plant diseases	02
	Root knot diseases of vegetables	
7	Viral plant diseases.	05
	Introduction to virus as a plant pathogen, Tomato mosaic, Cucumber mosaic Watermelon mosaic	
8	Non parasitic diseases.	05
	Impact of abiotic couses- Temprature, Soil Ph , Air pollutants, poor O2, Poor light, Nutritional difficiency, Herbicidal injury. Black heart disease of Potato, Khaira disease of Rice.	
9	Principles of plant disease control.	05
	Biological Control, Chemical Control, Physical Control	

Refreneces:-

Plant Pathology, George N. Agrios, Elsvier Publications.

Fundamentals of Plant Pathology,Dr.J.N.Sharma,

Plant Pathology Pathogens and Plant Diseases, Dr.P.B. Pandey, S.Chands Publications.

Principles of Plant Pathology, G.P. Jagtap, Agrobios Publications.

Practical Plant Pathology, Vijay Yadav, New India Publishing Agency.

Plant Pathology, R.S.Mehrotra, , MC GRAW HILL Publications.

DOT 212: Paper: - II: - Bio fertilizers and Bio pesticides (36 Lectures)

Course Outcome: -

- Preparation of bio fertilizers by using microorganisms like fungi, bacteria, algae

- Role of mycorrhiza in growth of crop plants.
- Green mannuring, compost preparation and their field application.
- Recycle of biodegradable wastes
- To understand the role cow in organic farming.
- Preparation of bio pesticide by using different plant material
- To understand the integrated pest management.

Bio fertilizers (18 L)

1	**Introduction to Bio fertilizers**		**03**
		Definition, Scope in India and Importance	
2	Types of Bio fertilizers		**04**
		Biological nitrogen Fixation, Biological phosphate solubilizing, Organic compost, Animal waste base bio fertilizers	
3	Manures		**03**
		FYM, Compost, Green manure, Vermiculture	
4	Advantages of Bio fertilizers		**03**
		Impact of Fungi, Bacteria, algae base fertilizer to improve nutritional value of soil	
5	Indian scenario of Bio fertilizers		**06**
		Institutes and industries involved in Bio fertilizer Production	

Bio pesticides (18 L)

1	**Introduction to Bio pesticides**		**03**
		Definition, Scope in India and Importance	
2	Types of Bio pesticides		**04**
		Plant base Bio pesticide, Fungi base Bio pesticide, Bacteria base bio pesticide, Physical Natural Material as Bio pesticide	
3	Nano Bio pesticides		**02**
		Plant derived Nano pesticide for agricultural pest control, Recent trends, Future aspect.	
4	Advantages of Bio pesticides		**02**
		Effectiveness of bio pesticide against various crop diseases **Concept of residue free farming**	

5	Mass production technology of bio-pesticides		06
		Mass production of Neem based and various plant based bio pesticide- Production Technology, Basic Instrument, Machinery **Mass production of Fungi based bio pesticide- Production Technology, Basic Instrument, Machinery**	

Refreneces:-

Biofertilizers for Sustainable Agriculture and Environment, Bhupander Giri, Springer Publications.

Biofertilizers in Agriculture and Forestry Subha Rao N.S., MEDITECH Publications.

Biofertilizers, Dr.P.Hyma, Random Publications.

Biofertilizers and Biopesticides,Dr.Shalini Suri, Aph Publishing Corporations.

Biopesticide and Biofertilizers, Krishnendu Acharya, Techno Word Publications.

Biofertilizers and Organic Farming, Himadri Panda, Gene Tech Books Publishers.

DOT 213: Paper III: - Core Subject: - Packing, Grading, Direct Marketing and organic Certification (36 L)

Course Outcome: -

- To understand the proper process of packaging of vegetables.
- To understand the how to increases self-life of vegetable.
- To understand the supply chain between producer to customer.
- Use a vocabulary of marketing term correctly.

- Demonstrate the ability to critically evaluate a marketing program from customer and marketing practitioner viewpoints, including Consideration of ethical implications.
- Communicate clearly, in an organized fashion, the concept of marketing in both oral and written work.
- Demonstrate an understanding of how marketing fit with the other business disciplines within an organization.

1.	**Packing**		**06**
		Need of packing types, importance, Pack house, Martials used in packing	
2.	Fruit and Vegetable Packaging		**05**
		Methods and materials used for Fruit and vegetable packing	
3.	Fruit and Vegetable Grading		**05**
		Introduction, Importance, Methods used.	
4.	**Introduction to Directing Marketing**		**06**
		Definition, Advantages, types, SoP used	
5.	**Advances of Direct Marketing**		**06**
		Methodology of Direct Marketing, Characteristics of direct marketing, components of direct marketing, Functions of Directing marketing.	
6.	Success stories of Direct marketing **in Agriculture**		**04**
		1. Abhinav Farmers Club 2. Mahaorganic farmer Group 3 Krushi samrudhi organic farmer Group	
7.	**Organic Certification**		**04**
		Concept, Agencies, Necessity, Certification process, standards used	

Refreneces:-

Organic farming Component and Management, Dushant Gehlot, Agrobios Publications Pvt. Ltd.

Organic Farming and Marketing in India, Abhay Joshi, LAMBERT Academic Publishing.

An Economic Analysis of Organic Farming in Tamilnadu, Sridhar V., LAMBERT Academic Publishing.

The Organic Farmers Business Handbook, Richard Wiswall, Chelsia Green Publishing Co.

DOT 214: Paper IV: - Organic Farming Management (36 Lectures)

Course Outcome: -

- To understand the agriculture related funding agencies.
- To learn about different government subsidy based scheme related to organic farming.
- To learn about low budget organic farming.
- To providing knowledge of farm and crop management.
- To provide knowledge of labor work and time management.
- To understand the relationship management of farmer and customer.

1.	Funding Agencies	05
	District co-operative Banks, Government Banks, Rural Banks, NABARD, Krushi Finance.	
2.	Different Schemes for organic farming	**05**
	District agencies, State government schemes, Central government scheme, Agriculture Dept. Scheme, Subsidy based scheme.	
	Poly house, Poly tunnel, Shade Net House, Construction and management	04
	Government scheme, Low Budget Construction, Poly house Paper, mates	
3.	Low Budget Organic Farming Models	**04**
	Shade net, Biogas plant, Reduction of production cost, Low cost Infrastructure, Low budget instrument and machinery.	
4.	Worker and working management	**06**
	Worker training, skill development in worker, Time management in Working, Development of uniformity in worker.	
5.	Vegetable production Management and control	**06**

		Vegetable production, quantity production, Costumer Demand, Continuity in production, Quality Control, how to improve production.	
6.	Regular Customer Demand and supply Chain management		06
		Different Marketing app, Marketing Order acceptance, Basket Method, Supply chain, feedback management.	

Refreneces:-

Organic farming Component and Management Dushant Gehlot, , Agrobios Publications Pvt. Ltd.

Relevance of Organic Farming, B.L. Jana, Avishkar Publishers, Jaipur.

Dr. Smita Diwase, Indian Agriculture and Agri Business Management, Scientific Publishers (India).

Objective Agribusiness Management, Shakti Panigrahy, Scientific Publishers (India).

Agri Business Management, Dr. J.S. Amarnath, Satish Serial Publishing House.

DOT 215: Paper V: - General Education (36 Lectures)

Course Outcome: -

- To develop digital literacy skill.
- To access various tools and applications for learning and skill development.
- To operate variety of hardware and software independently and troubleshoot common problems.
- To create a variety of digital products using appropriate tools and applications and managing digital sources.
- Practice safe, legal and ethical means using ICT.

- By using critical thinking to analyze the elements/facts of a specific situation/Problem and support conclusion with fact.
- To develop Freedoms, Respect, Trust, Reasonability, Forgiveness in students.

1.	ICT skills		18
		Basic Information about Computer, Projector, Notepad, Microsoft Office Word, Microsoft Office Excel, Microsoft Edge, Microsoft Power Point, Microsoft Store, Microsoft outlook, Microsoft Publisher, Google Docs, Mail, APPS, Different Marketing Software, Different Search Engines	
2.	Critical Thinking		06
		Critical Thinking Skill, Observations, Analysis, Inference, Communication, Point of view, Purpose, Assumption, Concepts, Inference, Information, Implication and consequence, Questions, Synthesis.	
3.	Problem Solving		06
		Problem Solving Skill, Analytical Skill, Innovative and creative thinking, A lateral mindset, Adaptability and Flexibility, Level headedness, Initiative, Resilience .	
4.	Value education		06
		Freedoms, Respect, Trust, Reasonability, Forgiveness, Reuse and recycle, Doing your best, Share and care.	

Refreneces:-

ICT in Education, Dr. Vanaja M, Neelkamal Publications

Dr.Arulsamy,Application of ICT in Educations, , Neelkamal Publications

Information and Communication Technology, Durgesh Kumar Mishra, Springer Publications.

Information Communication Technology, Antonio Cartelli, Information Science Refrence Publications.

Peace and Value Educations, Dr. Debashish Paul, Rita Publications.

DOT 216: Paper VI: - Practical Based on Paper II (30P)

1. Introduction to different microorganisms used in bio fertilizer production.
2. Isolation of Phosphate solubilizing micro-organisms from rhizosphere.
3. Isolation of Rhizobium from root nodules of leguminous crop Isolation and purification of *Azotobacter* from soil.
4. Isolation and purification of *Beijerinckia* form soil.
5. Isolation of *Azospirillum.*
6. Isolation Blue Green Algae from soil
7. Isolation of organic matter decomposing microorganisms
8. Mass multiplication of Rhizobium, *Azotobacter*, and *Azospirillum* inoculum
9. Production and application of Blue Green Algae
10. Production of *Azolla* Biofertilizers
11. Methods of application of Biofertilizers
12. Standards for commercial production of Biofertilizers- Quality control of Biofertilizers
13. Analysis of organic manures-organic carbon, total NPK and C: N ratio
14. Fertilizer analysis-Urea, Ammonium sulphate, Pottassium nitrate, Murate of potash and Rock phosphate for their respective nutrients
15. Study of materials required for vermicomposting
16. Study of requirements for vermicomposting
17. Preliminary treatment for composting material
18. Preparation of vermin beds
19. Setting up of a vermin wash unit
20. Harvesting and economics of vermin composting
21. Study of Green manure processing
22. Desi cow milk and waste base product.
23. Preparation of Jivamrut
24. Analysis of nutritional value of different bio fertilizer.

25. Bio fertilizers packaging method and storage.
26. Bio fertilizer Certification and marketing
27. Study of preparation of Dashparni Ark
28. Preparation Neem Kernel Powder.
29. Neem Kernel aqua extraction.
30. Preparation of different plant extract for biopesticide.

DOT 217: Paper VII: - Practical Based on Paper I (30 P)

1. Study of different types media use in plant pathology.
2. Preparation of media for isolation of plant pathogens.
3. Study of Identification of pathogens.
4. Study of mites.
5. Study of fruit flies.
6. Study of aphids.
7. Study of Nematodes.
8. Study of insects.
9. Study of Termites and their effect of fruits plants.
10. Study of pathogen habitat.
11. Study of seed borne diseases.
12. Study air borne diseases.
13. Study of soil borne diseases.
14. Study of seed health testing method.
15. Study of Steak plate culturing method.
16. Study of Pour plate culturing method.
17. Study of spread plate culturing method.
18. Study of Serial dilution method.
19. Study of fungal diseases in vegetable plant
20. Study of Bacterial diseases in vegetable plant
21. Study of Viral diseases in vegetable plant
22. Study of Mycoplasma diseases in vegetable plant

23. Study of Non Parasitic disease in vegetable plant.
24. Study on structure of plant pathogen laboratory.
25. Study of laboratory instrument use in plant pathology.
26. Study of soil sampling.
27. Study of different Agriculture Dept. helping farmer to plant health.
28. Study of Crop insurance.
29. Study of different instrument use in plant protection.
30. Study of role of plant pathology Consultant.

DOT 218: Paper VIII: - Practical Based on Paper III, IV and V (30 P)

1. Study of basic information about computer part.
2. Study of Microsoft Office Word
3. Study of Microsoft Office Excel
4. Study of Microsoft Power Point
5. Study of Microsoft Store
6. Study of Microsoft outlook
7. Study of Microsoft Publisher
8. Study of Google Docs
9. Study of different Mail system
10. Study of different marketing APPS,
11. Different Search Engines
12. Study of Funding Agencies.
13. Study application of different Schemes for organic farming.
14. Study of building low budget biogas construction.
15. Study of instrument use in vegetable quality testing
16. Study of different electronic media use in marketing
17. Study of customer feedback analysis.
18. Study farm management system
19. Study of role farm supervisor
20. Study of residue reduction management system

21. Study basket method in supply chain.
22. Study of cold storage vehicle, their related scheme of government.
23. Study of vegetable order accept and dispatch of vegetable management.
24. Study of proposal writing for funding agencies.
25. Study of different Poly house structuring
26. Study of Poly house polythene paper, Shad nets, Steel and Wood support material
27. Study of group farming and their registration method.
28. Study of different scheme for group farming
29. Study of centralize system management in group farming
30. Study of GST

- **Internship:-**

  It is expected to opt for 180 Hrs. Internship in a semester i.e. Daily 6 hrs. for 30 Days On different Farms.

प्राचार्य
अनंतराव पवार महाविद्यालय, पिरंगुट
ता. मुळशी, जि.पुणे-४१२११५.

PDEA's

ANANTRAO PAWAR COLLEGE, PIRANGUT

D.Voc. Organic Urban Farming :Student List(Academic Year:2020-21)

SR.NO.	NAME OF STUDENT	CATEGORY	GENDER	SIGNATURE
1	ALHAT PRATIKSHA SAMBHAJI	SC	F	
2	BANEKAR SHRIPAD SHYAM	OBC	M	
3	BHOR KIRAN KALURAM	Open	M	
4	BUDHKAR PRIYANKA SHAILAJ	Sc	F	
5	BUDHKAR VAISHNAVI SHAILAJ	Sc	F	
6	CHAFEKANADE SNEHA BABRUVAN	NT-B(OBC)	F	
7	CHANDGUDE SWAPNIL DATTATRAY	Open	M	
8	CHAVAN SANDEEP GUJJU	SC	M	
9	CHAVAN TRUPTI SANDIP	OPEN	F	
10	DHAGE SHRUSHATI ASHOK	OBC	F	
11	DAUNDKAR SACHIN KERBHAU	Open	M	
12	DHUMAL ARATI VIJAY	OPEN	F	
13	FATANGADE DATTATRAY MANIKRAO	OBC	M	
14	GATADE SHAILENDRA DHONDIRAM	Open	M	
15	GHULE DURGA LAXMAN	Open	F	
16	HAGWANE SHIVANI ARUN	Open	F	
17	HAROLE AMAR RAMCHANDRA	Open	M	H.A.R.
18	KADAM POOJA SANJIV	OPEN	F	P.S. Kadam
19	KANDHARE RUTUJA ANANTA	OPEN	F	
20	KHANEKAR KIRTI MARUTI	OPEN	F	
21	KHOPKAR SHREYAS KHEMRAJ	OPEN	M	
22	KOKATE TEJAL RAJENDRA	ST	F	
23	KUMBHAR KALYANI UMESH	OBC	F	
24	MARATHE SARTHAK KISHOR	OPEN	M	
25	MORE SHRIKANT GANGADHAR	SC	M	
26	MORE UMESH CHANDRAKANT	OPEN	M	
27	NAGARGOJE DILIP RAMDAS	OBC	M	
28	NARWADE MAYUR BHIVA	Open	M	
29	NAWALE GAURAV KAILAS	Open	M	
30	NAIK YOGESH VITTHAL	ST	M	
31	OVHALE TUSHAR CHABAN	OPEN	M	
32	OZARKAR SURAJ NATHU	Open	M	
33	OZARKAR PRANALI ANIL	Open	F	

समन्वयक

अनंतराव पवार महाविद्यालय, पिरंगुट
ता. मुळशी, जि.पुणे-४१२११५.

PDEA's

ANANTRAO PAWAR COLLEGE, PIRANGUT

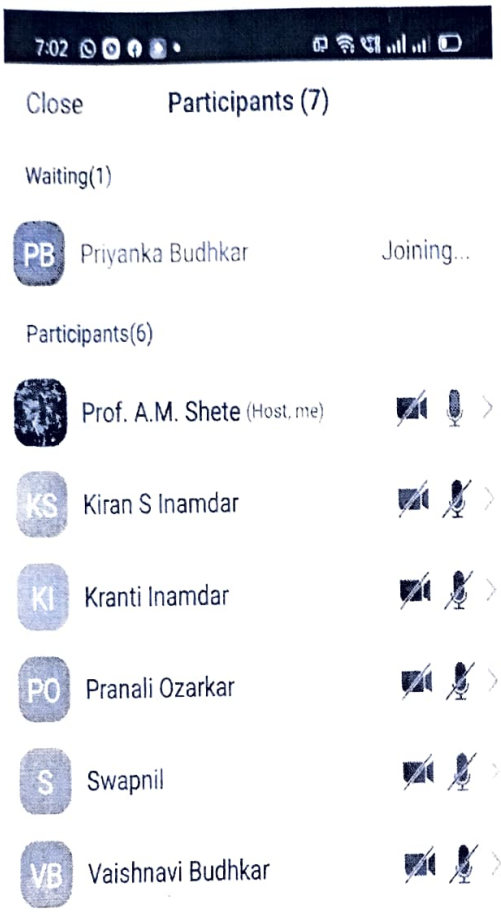
D.Voc. Organic Urban Farming :Student List(Academic Year:2020-21)

SR.NO.	NAME OF STUDENT	CATEGORY	GENDER	SIGNATURE
34	PATIL TEJAS SHIVAJI	OPEN	M	
35	PAWAL DNYANESHWAR BHIMRAO	OPEN	M	
36	PAWAL SACHIN NARHARI	OPEN	M	
37	PAWALE NEHA SANTOSH	OPEN	F	
38	PAWAR VARSHA DILIP	OPEN	F	
39	SANAS SHRUTIKA SANJAY	OPEN	F	
40	SATAV ROHIT BHARAT	OBC	M	
41	UDHAN SATISH GANPATRAO	OPEN	M	
42	VAVALE SHWETA ROHIDAS	OPEN	F	

प्राचार्य
अनंतराव पवार महाविद्यालय, पिरंगुट
ता. मुळशी, जि.पुणे-४१२११५.

विद्यार्थी उपस्थिती(शैक्षणिक वर्ष २०२०-२१)

Course: D.VOC Organic Urban Farming



प्राचार्य
अनंतराव पवार महाविद्यालय, पिरंगुट
ता. मुळशी, जि. पुणे-४१२११५.

Pune District Education Association's

Anantrao Pawar College, Pirangut.

Tal- Mulshi, Dist.Pune-412115

Presenty Report : D.Voc. Organic Urban farming (Academic Year 2020-21)

Student Name	Date 01/10/19	02/10/19	04/10/19	05/10/19	06/10/19	07/10/19	08/10/19	09/10/19	11/10/19	12/10/19	13/10/19	18/10/19	19/10/19	20/10/19	22/10/19	27/10/19	28/10/19	29/10/19	30/10/19	01/11/19
Allat Pratiksha S.	Allat P	Allat P	A	Allat P	Allat P	Allat P	Allat P	Allat P	Allat P	Allat P	Allat P	Allat P	Allat P	A	Allat P	Allat P	Allat P	Allat P	Allat P	Allat P
Banekar Shripad shyam	Ban	Ban	A	Ban	A	A	Ban	Ban	A	Ban	Ban	A	Ban	A	Ban	A	Ban	A	Ban	Ban
Bhor Kiran Kaluram	भोर	भोर	A	भोर	भोर	भोर	भोर	भोर	भोर	भोर	भोर	भोर	भोर	भोर	भोर	भोर	भोर	भोर	भोर	भोर
Budhkar Vaishnavi S.	BVS	BVS	A	BVS	BVS	A	BVS	BVS	BVS	BVS	BVS	BVS	BVS	A	BVS	A	BVS	BVS	BVS	BVS
Budhkar Priyanka s.	Bpr	Bpr	A	Bpr	Bpr	A	Bpr	Bpr	Bpr	Bpr	Bpr	Bpr	Bpr	A	Bpr	Bpr	A	Bpr	Bpr	Bpr
Chatekande Sneha B.	Cosc	Cosc	Cosc	Cosc	Cosc	Cosc	Cosc	Cosc	Cosc	Cosc	Cosc	Cosc	Cosc	Cosc	Cosc	Cosc	Cosc	Cosc	Cosc	Cosc
Chandgude Swapnil	Dade	Dade	A	Dade	A	Dade	Dade	Dade	Dade	Dade	Dade	A	A	A	Dade	Dade	A	A	A	A
Charan Sandeep G.	Charan	Charan	Charan	Charan	A	Charan	A	Charan	A	Charan	A	A	Charan	Charan	Charan	Charan	A	Charan	A	A
Charan Trupti S.	चरण	चरण	A	चरण	चरण	A	चरण	चरण	चरण	चरण	चरण	चरण	चरण	A	चरण	A	चरण	चरण	A	चरण
Dhage Shrushti Ashok	Dhage	Dhage	A	Dhage	Dhage	A	Dhage	Dhage	Dhage	A	Dhage	Dhage	A	Dhage	Dhage	A	Dhage	Dhage	Dhage	A
Daudkar Sachin K.	DS	DS	DS	DS	DS	DS	DS	DS	DS	DS	DS	DS	DS	DS	DS	A	DS	DS	DS	DS
Dhumal Arti Vijay	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	A	DA	DA	DA	DA
Fatangade Dattatray	फटांगडे	फटांगडे	फटांगडे	फटांगडे	फटांगडे	फटांगडे	फटांगडे	फटांगडे	फटांगडे	फटांगडे	फटांगडे	फटांगडे	फटांगडे	फटांगडे	फटांगडे	A	फटांगडे	फटांगडे	फटांगडे	फटांगडे

Teacher (Shete A.M.)

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Presenty Report : D.Voc: Organic Urban farming (Academic Year- 2020-21)

14

Student Name	01/01/21	02/01/21	04/01/21	05/01/21	06/01/21	07/01/21	08/01/21	09/01/21	11/01/21	12/01/21	13/01/21	18/01/21	19/01/21	20/01/21	27/01/21	28/01/21	28/01/21	29/01/21	30/01/21	01/02/21
Gatade Shailendra	[signature]	[signature]	[signature]	A	[signature]	A	A	[signature]	A	[signature]	A	[signature]	[signature]	A	[signature]	A	[signature]	[signature]	[signature]	A
Ghule Durga Laxman	A	[signature]		[signature]	A	[signature]	[signature]	A	[signature]	[signature]	A	[signature]	[signature]	A	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]
Haywade Shivaji Laxman	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	A	[signature]	[signature]	A	[signature]	A
Harale Amar Pandurang	H.AR.	H.A	A	A	HA	A	A	HA	A	A	[signature]	HA	A		HA	A	A	HA	A	[signature]
Kadam Pooja	D.S.Kadam		[signature]		[signature]		A	[signature]		A	[signature]	[signature]			A	D.S. Kadam				[signature]
Kamthe Rutuja	Rutu	Rutu	Rutu	Rutu	Rutu	A	Rutu	Rutu	Rutu	Rutu	Rutu	Rutu	Rutu		Rutu	Rutu	Rutu	Rutu	Rutu	Rutu
Khanekar Kirti	Kirti	Kirti	A	Kirti	Kirti	Kirti	Kirti	Kirti	Kirti	Kirti	Kirti	Kirti	Kirti	Kirti	Kirti	Kirti	Kirti	Kirti	Kirti	Kirti
Khopkar Shreyas	[signature]	Shreyas	A	Shreyas	Shreyas	A	Shreyas	Shreyas	Shreyas	A	Shreyas	Shreyas	Shreyas	A	Shreyas	A	Shreyas	Shreyas	Shreyas	Shreyas
Kokate Tejal	[signature]	Kokate	A	Kokate	Kokate	Kokate	Kokate	Kokate	Kokate	A	Kokate	Kokate	Kokate	A	Kokate	A	Kokate	Kokate	Kokate	Kokate
Kumbhar Kalyani	Kumbhar	Kumbhar		Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar		Kumbhar	A	Kumbhar	Kumbhar	Kumbhar	Kumbhar
Marathe Sarthak	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	A	[signature]	A	[signature]	[signature]	[signature]	A	[signature]	[signature]	[signature]	[signature]
More Shrikant	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	A	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]
More Umesh	[signature]	More		More	More	More	More	More	More	A	More	More	More	A	More	More	A	More	More	More

Teacher [signature]

Principal [signature]

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

Pune District Education Association's

Anantrao Pawar College, Pirangut.

Tal- Mulshi, Dist.Pune-412115

Presenty Report : D. Voc. Organic Urban Farming (Academic Year 2020-21)

Student Name	Date 01/10/21	02/10/21	04/10/21	05/10/21	06/10/21	07/10/21	08/10/21	09/10/21	11/10/21	12/10/21	13/10/21	18/10/21	19/10/21	20/10/21	25/10/21	27/10/21	28/10/21	29/10/21	30/10/21	01/11/21
27 Nagargoje Dilip.				A		A														
Narawade Mayur			A			A			A					A		A				
Nawale Gaurav.			A													A				
Naik Yogesh.			A			A			A		A		A		A					
Ovhal Tushar			A			A								A		A				
Ozarkar Suraj.									A		A		A				A			
Ozarkar Pranali															A					
Patil Tejas.									A						A		A			
Pawale Omkumar.									A	A		A		A		A				
Pawale Sachin Neha					A													A		
Pawale Neha Sachin									A											
Pawar Harsha.									A											
Sawant Sruti ka.									A											

Teacher

(Shete A. M.)

Principal

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

Pune District Education Association's

Anantrao Pawar College, Pirangut.

Tal- Mulshi, Dist.Pune-412115

Presenty Report : D.Voc. Organic Urban Farming (Academic Year- 2020-21)

Student Name	Date	01/10/24	02/10/24	04/10/24	05/10/24	06/10/24	07/10/24	08/10/24	09/10/24	11/10/24	12/10/24	13/10/24	18/10/24	19/10/24	20/10/24	22/10/24	27/10/24	28/10/24	29/10/24	30/10/24	01/02/24
Satav Rohit		Satav	Satav	Satav	Satav	Satav	A	Satav	Satav	Satav	Satav	Satav	Satav	Satav	A	Satav	A	Satav	Satav	Satav	Satav
Vidhan Satish		Sidhan	Sidhan	A	Sidhan	Sidhan	A	Sidhan	Sidhan	Sidhan	A	Sidhan	Sidhan	Sidhan	Sidhan	Sidhan	A	Sidhan	Sidhan	Sidhan	Sidhan
Varule Shivaji		Varule	Varule	A	Varule	Varule	Varule	Varule	Varule	A	Varule	Varule	Varule	Varule	Varule	Varule	A	Varule	A	Varule	Varule

Teacher (Shete A.M.)

Principal

Principal
Anantrao Pawar College Pirangut
Tal. Mulshi Dist. Pune - 412...

पुणे जिल्हा शिक्षण मंडळाचे
अनंतराव पवार महाविद्यालय, पिरंगुट
ता.- मुळशी जि. पुणे- ४१२११५

वार्षिक अहवाल :डी.व्होक ऑरगॅनिक अर्बन फार्मिंग
(शैक्षणिक वर्ष: २०२०-२१)

शैक्षणिक वर्ष २०२०-२१ पासून UGC-NSQF च्या योजनेअंतर्गत महाविद्यालयात **ऑरगॅनिक अर्बन फार्मिंग** हा कोर्स सुरू करण्यात आला आहे. या योजनेअंतर्गत महाविद्यालयातील विद्यार्थ्यांना कौशल्यावर आधारित शिक्षण मिळावे तसेच त्यांना रोजगाराच्या व स्वयंरोजगाराच्या संधी उपलब्ध व्हाव्यात या उद्देशाने महाविद्यालयात हा कोर्स सुरू करण्यात आला. हे महाविद्यालय ग्रामीण भागातील आहे. तसेच या महाविद्यालयात येणारे विद्यार्थी बहुतांश ग्रामीण भागातील आहेत. बहुतांश विद्यार्थ्यांची उपजीविका शेती या व्यवसायावरती अवलंबून आहे म्हणून त्यांना शेतीच्या माध्यमातून रोजगार उपलब्ध व्हावा तसेच शेतीवर आधारित उद्योग व्यवसायांची ओळख व्हावी त्यामधून त्यांची आर्थिक परिस्थिती सुधारण्यास परिणाम होईल हे ध्येय समोर ठेवून हा कोर्स महाविद्यालयात सुरू करण्यात आला. तसेच मुळशी तालुका पुणे शहरापासून जवळ असल्याकारणाने शेतीमालाला चांगल्या प्रकारची बाजारपेठ उपलब्ध आहे. ऑरगॅनिक अर्बन फार्मिंग या कोर्सेसच्या माध्यमातून शेती तंत्रज्ञान व रसायनमुक्त शेती कशी करावी यांचे मार्गदर्शन करण्यात येतं आहे. या शैक्षणिक वर्षात या कोर्सला एकूण विद्यार्थ्यांनी प्रवेश घेतला.

या कोर्स अभ्यासक्रम महाविद्यालयातील शिक्षक व उद्योग क्षेत्रात कार्यरत असलेल्या व्यक्तींच्या मार्गदर्शनाखाली पूर्ण करण्यात आला. या कोर्सला महाविद्यालयातील श्री. अक्षय शेटे व अभिनव फार्मर्स क्लबचे प्रमुख श्री. ज्ञानेश्वर बोडके व श्रीमती विशाखा बुरटे यांनी अध्यापनाचे कार्य केले. हा अभ्यासक्रम १८० सैद्धांतिक, ९० प्रात्यक्षिके तासिका व प्रत्यक्ष प्रशिक्षण अशा मार्फत प्रथम व द्वितीय असा प्रत्येक सत्राचा अभ्यासक्रम पूर्ण करण्यात आला. अभ्यासक्रमास प्रवेशित झालेल्या ४२विद्यार्थ्यांपैकी २७ एवढ्या विद्यार्थ्यांनी दोन्ही सत्र परीक्षा दिल्या यापैकी २६ एवढे विद्यार्थी उत्तीर्ण झाले.या कोर्सचा वार्षिक निकाल ९६.२९ % आहे.

हा कोर्स पूर्ण करण्यासाठी बी. व्होक चे प्रमुख डॉ. प्रवीण चोळके व महाविद्यालयाच्या प्राचार्य डॉ. शर्मिला चौधरी यांचे बहुमोल मार्गदर्शन लाभलेया कोर्सेचे समन्वयक म्हणून श्री अक्षय शेटे यांनी काम पाहिले.

समन्वयक

प्राचार्य
अनंतराव पवार महाविद्यालय, पिरंगुट
ता. मुळशी, जि.पुणे-४१२११५

Pune District Education Association's

Anantrao Pawar College, Pirangut

Tal.- Mulshi Dist. Pune- 412115

Annual Report: D.Voc Organic Urban Farming

(Academic Year: 2020-21)

D.VOC Diploma in Farming course has been started in the college under the scheme of UGC-NSQF from the academic year 2020-21. Under this scheme, this course was started in the college with the aim of providing skill based education to the students of the college and providing those opportunities for employment and self-employment. This college is in a rural area. Also, most of the students coming to this college are from rural areas. Since the livelihood of most of the students depends on agriculture, this course was started in the college with the aim that they should get employment through agriculture and get to know agriculture based industries and businesses which will affect their economic situation. Also Mulshi Tehsil is close to Pune city so good market is available for agricultural produce. Through the Organic Urban Farming courses, agricultural technology and how to do chemical-free farming are being guided. A total of 42 students took admission in this course in this academic year.

This course was completed under the guidance of the faculty of the college and the persons working in the industry. This course was taught by Prof. Akshay Shete and head of Abhinav Farmers Club Mr. Dnyaneshwar Bodke did the work of teaching. This course was completed through 180 hours of theory, 90 hours of practical training and practical training for each semester. Out of 42 students admitted to the course, 27 students appeared in both the semester exams, out of which 26 students passed. The annual result of this course is 96.29%.

To complete this course, Head of B.Voc and the Vice-Principal of the college Dr. Praveen Cholke, Prof. Akshay Shete worked as the coordinator of the course under the valuable guidance of Hon'ble Principal Dr. Sharmila Chaudhari.

Co-ordinater

Principal

Anantrao Pawar College, Pirangut
Tal Mulshi, Dist Pune 412115

NO.: 22 - 0014941

SAVITRIBAI PHULE PUNE UNIVERSITY

(formerly University of Pune)

GANESHKHIND PUNE 411 007

Passing Certificate

This is to certify that -

Shri CHANDGUDE SWAPNIL DATTATRAY Mother's Name:-SUVARNA

has appeared for the D.VOC.(ORG.URBAN FARMING)

examination held in month of April 2021 and declared to have passed the examination with 'A+' grade.

This is further to certify that he is eligible for the aforesaid Degree Certificate, whenever he applies for the same at the University Convocation.

Seat No. : 1104

P.R.No. : 2021189876

College code: 0866

Mahesh Kakade
Director
Board of Examinations & Evaluation

DATE : 16 MARCH 2022

NO.: 22 - 0014942

SAVITRIBAI PHULE PUNE UNIVERSITY

(formerly University of Pune)

GANESHKHIND PUNE 411 007

Passing Certificate

This is to certify that -

Smt. OZARKAR PRANALI ANIL

Mother's Name: -SUJATA

has appeared for the

D.VOC.(ORG.URBAN FARMING)

examination held in month of April 2021 and declared to have passed the examination with 'A+' grade.

This is further to certify that she is eligible for the aforesaid Degree Certificate, whenever she applies for the same at the University Convocation.

Seat No. : 1105

P.R.No. : 2021189845

College code: 0866

DATE : 16 MARCH 2022

Mahesh Kakade
Director
Board of Examinations & Evaluation