

*Proposed Training Programmes*  
*under NHM*  
*for*  
Farmers in Suicide Prone  
Districts of Vidarbha Region  
( MAHARASHTRA)

*Submitted to;*  
Managing Director,  
Maharashtra State Horticulture & Medicinal Plants Board,  
Pune

*Prepared by*  
*Special Task Group, Farmers Training Programme,*  
*NHM, Maharashtra.*

# Proposed Farmers Training Programmes Under NHM For Vidarbha Region

## Division: Amaravati

### 1. Amaravati

#### A Orange

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	AMROT-01	<i>Phytophthora</i> Control in Orange	Two	I
2	AMROT-02	Irrigation & Drainage Management in Orange	Two	II
3	AMROT-03	Rejuvenation of declined orchards	One	II
4	AMROT-04	Integrated Nutrition management in Orange	Two	III
5	AMROT-05	Post Harvest handling of Orange	One	IV
6	AMROT-06	Good Agriculture Practices in Orange	Two	V
7	AMROT-07	Processing & value addition in Orange	Two	VI

#### B Mango

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	AMRMT-01	In situ Plantation of Mango	One	I
2	AMRMT-02	Plant Protection in Mango	One	II
3	AMRMT-03	Nutrient management in Mango	One	III
4	AMRMT-04	Irrigation Management in Mango	One	IV
5	AMRMT-05	Technology for regular bearing in Mango	One	V
6	AMRMT-06	Post harvest Management of Mango fruits	One	VI
7	AMRMT-07	Processing of Mango fruits	One	VI

**C Sweet Orange (subject to inclusion in NHM programme)**

<b>Sr. No.</b>	<b>Course Code</b>	<b>Title of Training Course</b>	<b>Duration (Days)</b>	<b>Priority</b>
1	AMRSOT-01	Establishment of Sweet Orange Orchard	One	I
2	AMRSOT-02	Integrated Nutrient Management in Sweet Orange	Two	II
3	AMRSOT-03	Production of disease free planting material in Sweet Orange	Three	III
4	AMRSOT-04	Irrigation & Drainage management in Sweet Orange	Two	IV
5	AMRSOT-05	Training and Pruning in Sweet Orange	One	V
6	AMRSOT-06	Value addition of marketing in Sweet Orange	Two	VI

**D Ginger**

<b>Sr. No.</b>	<b>Course Code</b>	<b>Title of Training Course</b>	<b>Duration (Days)</b>	<b>Priority</b>
1	AMRGT-01	Production of quality planting material in Ginger	One	I
2	AMRGT-02	INM Nutrient Management in Ginger	One	II
3	AMRGT-03	Processing of Ginger for value addition	One	III

**E Flower Crops**

<b>Sr. No.</b>	<b>Course Code</b>	<b>Title of Training Course</b>	<b>Duration (Days)</b>	<b>Priority</b>
1	AMRFT-01	Production of Planting material for diff. flower crops	One	I
2	AMRFT-02	Cultivation Technology for Flower crops Rose & Galardia	One	II
3	AMRFT-03	Plant Protection in flower crops	One	III

4	AMRFT-04	Cutting & pruning in Roses	One	III
5	AMRFT-05	Micro Irrigation & fertigation in flower crops	One	IV
6	AMRFT-06	Post harvest care & Packaging	One	V
7	AMRFT-07	Value addition in flowers	One	VI

#### **F Training Programme for Special NHM activities**

<b>Sr. No.</b>	<b>Course Code</b>	<b>Title of Training Course</b>	<b>Duration (Days)</b>	<b>Priority</b>
1	AMRCTT-01	Establishment of Community Tanks	One	I
2	AMRGHT-02	Construction & Management of Green House	Two	I
3	AMRPHT-03	Establishment of Pack House	One	I

## **2. Akola**

### **A. Orange**

<b>Sr. No.</b>	<b>Course Code</b>	<b>Title of Training Course</b>	<b>Duration (Days)</b>	<b>Priority</b>
1	AKOT-01	Establishment of Orchard	One	I
2	AKOT-02	<i>Phytophthora</i> control in Orange	Two	I
3	AKOT-03	Production of quality Planting material	Two	II
4	AKOT-04	Rejuvenation of declined orchards	One	II
5	AKOT-05	Integrated Nutrition management in Orange	Two	III
6	AKOT-06	Micro irrigation & drainage in Orange	Two	IV
7	AKOT-07	Grading, Packing & Processing Technology	One	V

### **B. Kagazi Lime**

<b>Sr. No.</b>	<b>Course Code</b>	<b>Title of Training Course</b>	<b>Duration (Days)</b>	<b>Priority</b>
1	AKKLT-01	Production of quality planting material	One	I

2	AKKLT-02	Integrated Nutrient Management in Kagazi Lime	One	II
3	AKKLT-03	Bahar regulation in Kagazi Lime	One	II
4	AKKLT-04	Irrigation management in Kagazi Lime	One	III
5	AKKLT-05	Plant protection in Kagazi Lime	One	IV
6	AKKLT-06	Grading & packing in Kagazi Lime	One	V

### C. Mango

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	AKMT-01	In situ Plantation of Mango	One	I
2	AKMT-02	Nutrient management in Mango	One	II
3	AKMT-03	Plant Protection in Mango	One	II
4	AKMT-04	Technology for regular bearing in Mango	One	IV
5	AKMT-05	Grading, Packing, Processing & marketing of mango	One	V

### D. Flower Crops

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	AKFT-01	Production of Seed & Planting material in flower crops	Two	II
2	AKFT-02	Protected Cultivation of Flowers	Two	II
3	AKFT-03	Cultivation of Roses	One	III
4	AKFT-04	Cutting & pruning in Roses	One	III
5	AKFT-05	Cultivation of Gladiolus & Tuberose	One	IV
6	AKFT-06	Value addition in flowers	One	V

### E. Training Programme for Special NHM activities

<b>SR. No.</b>	<b>Course Code</b>	<b>Title of Training Course</b>	<b>Duration (Days)</b>	<b>Priority</b>
1	AKCTT-01	Establishment of Community Tanks	One	I
2	AKGHT-01	Construction & Management of Green House	Two	I
3	AKPHT-01	Establishment of Pack House	One	I

## 3. Buldhana

### A. Orange

<b>Sr. No.</b>	<b>Course Code</b>	<b>Title of Training Course</b>	<b>Duration (Days)</b>	<b>Priority</b>
1	BLDOT-01	Production of planting material	Two	I
2	BLDOT-02	<i>Phytophthora</i> control in Orange	Two	I
3	BLDOT-03	Establishment of Orchard	One	II
4	BLDOT-04	Rejuvenation of declined orchards	One	II
5	BLDOT-05	Nutrient management in Orange	One	III
6	BLDOT-06	Management of Irrigation & drainage in Orange	Two	IV
7	BLDOT-07	Grading, Packing & Processing	Two	V

### B. Mango

<b>Sr. No.</b>	<b>Course Code</b>	<b>Title of Training Course</b>	<b>Duration (Days)</b>	<b>Priority</b>
1	BLDMT-01	In situ Plantation of Mango	One	I
2	BLDMT-02	Nutrient management in Mango	One	II
3	BLDMT-03	Plant Protection in Mango	One	III
4	BLDMT-04	Irrigation & drainage management in Mango	Two	IV
5	BLDMT-05	Grading, Packing, Processing & marketing of mango	Two	V

### C. Kagazi Lime

<b>Sr. No.</b>	<b>Course Code</b>	<b>Title of Training Course</b>	<b>Duration (Days)</b>	<b>Priority</b>
1	BLDKLT-01	Production of quality planting material	Two	I
2	BLDKLT-02	Integrated Nutrient Management in Kagazi Lime	One	II
3	BLDKLT-03	Irrigation management in Kagazi Lime	One	III
4	BLDKLT-04	Grading & packing in Kagazi Lime	One	IV

### D. Custard Apple

<b>Sr. No.</b>	<b>Course Code</b>	<b>Title of Training Course</b>	<b>Duration (Days)</b>	<b>Priority</b>
1	BLDCAT-01	Processing of Custard Apple	One	I
2	BLDCAT-02	Pruning in Custard Apple	One	II

### E. Vegetables

<b>SR. No.</b>	<b>Course Code</b>	<b>Title of Training Course</b>	<b>Duration (Days)</b>	<b>Priority</b>
1	BLDVT-01	Seed Production in Vegetables	Two	I
2	BLDVT-02	Post Harvest management in vegetables	One	II

### F. Special activities

<b>Sr. No.</b>	<b>Course Code</b>	<b>Title of Training Course</b>	<b>Duration (Days)</b>	<b>Priority</b>
1	BLDCTT-01	Establishment of Community Tanks	One	I
2	BLDGHT-02	Construction & Management of Green House	Two	I
3	BLDPHT-03	Establishment of Pack House	One	I

## 4. Yavatmal

### A. Orange

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	YAVOT-01	Production of quality planting material	Two	I
2	YAVOT-02	<i>Phytophthora</i> control in Orange	Two	I
3	YAVOT-03	Establishment of Orange Orchard	One	II
4	YAVOT-04	Rejuvenation of declined Orange orchards	One	II
5	YAVOT-05	Irrigation & drainage management in Orange	Two	III
6	YAVOT-06	Integrated Nutrient management in Orange	One	IV

### B. Anola

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	YAVAT-01	Production of quality Anola grafts	One	I
2	YAVAT-02	Anola processing & marketing	Two	II

### C. Floriculture

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	YAVFT-01	Seed Production of flower crop	Two	I
2	YAVFT-02	Protected cultivation of flowers	Two	II

### E. Training Programme for Special NHM activities

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	YAVCTT-01	Establishment of Community Tanks	One	I
2	YAVGHT-01	Construction & Management of Green House	Two	I
3	YAVPHT-01	Establishment of Pack House	One	I

## 5. Washim

### A. Orange

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	WASOT-01	Production & use of quality planting material	Two	I
2	WASOT-02	<i>Phytophthora</i> control in Orange	Three	I
3	WASOT-03	Establishment of Orange Orchard	One	II
4	WASOT-04	Rejuvenation of declined Orange orchards	One	II
5	WASOT-05	Nutrient management in Orange	One	III
6	WASOT-06	Irrigation & drainage in Orange	Two	IV
7	WASOT-07	Post harvest management & Processing of Orange	Two	V

### B. Vegetable

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	WASVT-01	Seed Production of vegetable crop	Two	I
2	WASVT-02	Protected cultivation of vegetables	Two	II

### C. Floriculture

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	WASFT-01	Seed & planting material production of flower crop	Two	I
2	WASFT-02	Protected cultivation of flowers	Two	II

## D. Training Programme for Special Activities

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	WASCTT-01	Establishment of Community Tanks	One	I
2	WASGHT-01	Construction & Management of Green House	Two	I
3	WASPHT-01	Establishment of Pack House	One	I

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## Division : Nagpur

### 6. Nagpur

#### A. Orange

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	NGPOT-01	<i>Phytophthora</i> control in Oranges	Two	I
2	NGPOT-02	Integrated nutrients Management in Oranges	Two	II
3	NGPOT-03	Production of Disease free planting material in Orange	Three	II
4	NGPOT-04	Irrigation & Drainage in Orange	Two	III
5	NGPOT-05	Rejuvenation of declined orchards in Orange	One	IV
6	NGPOT-06	Establishment of Orange Orchard	One	V
7	NGPOT-07	Pre harvest management for best quality fruit and post harvest care in Orange	One	VI
8	NGPOT-08	Good Agricultural Practices (GAP) in Orange.	One	VII
9	NGPOT-09	Value addition & Marketing of Orange	Two	VII
10	NGPOT-10	Organic Cultivation in Oranges	Two	
11	NGPOT-11	Bahar & fruit drop management in Orange	Two	

12	NGPOT-12	Training, Pruning & Canopy management in Orange	One	
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**b) Mango**

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	NGPMT-01	In situ planting in Mango	One	I
2	NGPMT-02	Plant Protection in Mango	One	II
3	NGPMT-03	INM in Mango	One	III
4	NGPMT-04	Irrigation & Drainage Management in Mango	One	IV
5	NGPMT-05	Post harvest Management of Mango fruits	One	V
6	NGPMT-06	Value addition and Processing of Mango	Two	VI

**c) Sweet Orange (subject to inclusion in NHM programme)**

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	NGPSOT-01	Establishment of Sweet Orange Orchard	One	I
2	NGPSOT-02	Integrated Nutrient Management in Sweet Orange	Two	II
3	NGPSOT-03	Production of disease free planting material in Sweet Orange	Three	III
4	NGPSOT-04	Irrigation & Drainage management in Sweet Orange	Two	IV
5	NGPSOT-05	Training and Pruning in Sweet Orange	One	V
6	NGPSOT-06	Value addition of marketing in Sweet Orange	Two	VI

**d) Vegetables**

<b>Sr. No.</b>	<b>Course Code</b>	<b>Title of Training Course</b>	<b>Duration (Days)</b>	<b>Priority</b>
1	NGPVT-01	Processing & Preservation of Vegetables	Two	I
2	NGPVT-02	Post harvest handling of Vegetables	One	II

**e) Flower Crops**

<b>Sr. No.</b>	<b>Course Code</b>	<b>Title of Training Course</b>	<b>Duration (Days)</b>	<b>Priority</b>
1	NGPFT-01	Production of quality seed & planting material in flower crops	Two	I
2	NGPFT-02	Pruning & cutting in Roses	One	II
3	NGPFT-03	Irrigation & Fertigation in Flower crops	Two	III
4	NGPFT-04	Plant Protection in Roses	One	IV
5	NGPFT-05	Pre & Post Harvest management in diff. flower crops	Two	V
6	NGPFT-06	Value addition in flowers	One	VI

**f) Training Programme for Special NHM activities**

<b>Sr. No.</b>	<b>Course Code</b>	<b>Title of Training Course</b>	<b>Duration (Days)</b>	<b>Priority</b>
1	NGPCTT-01	Establishment of Community Tanks	One	I
2	NGPGHT-01	Construction & Management of Green House	Two	I
3	NGPPHT-01	Establishment of Pack House	One	I

## 7. Wardha

### A. Orange

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	WAROT-01	<i>Phytophthora</i> control in Oranges	Two	I
2	WAROT-02	Integrated nutrients Management in Oranges	Two	II
3	WAROT-03	Production of Disease free planting material in Orange	Three	II
4	WAROT-04	Irrigation & Drainage in Orange	Two	III
5	WAROT-05	Establishment of Orange Orchard	One	IV
6	WAROT-06	Rejuvenation of declined orchards in Orange	One	IV
7	WAROT-07	Pre harvest management for best quality fruit and post harvest care in Orange	Two	V
8	WAROT-08	Bahar & fruit drop management in Orange	Three	VI
9	WAROT-09	Value addition & Marketing of Orange	Two	VII
10	WAROT-10	Training, Pruning & Canopy management in Orange	One	
11	WAROT-11	Good Agricultural Practices (GAP) in Orange.	Two	
12	WAROT-12	Organic Cultivation in Oranges	Two	

### B Mango

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	WARMT-01	In situ planting in Mango	One	I
2	WARMT-02	Plant Protection in Mango	One	II
3	WARMT-03	INM in Mango	One	III

4	WARMT-04	Irrigation & Drainage Management in Mango	One	IV
5	WARMT-05	Post harvest Management of fruit	One	V
6	WARMT-06	Value addition and Processing of Mango	One	VI

**C Sweet Orange (subject to inclusion in NHM programme)**

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	WARSOT-01	Establishment of Sweet Orange Orchard	One	I
2	WARSOT-02	Integrated Nutrient Management in Sweet Orange	One	II
3	WARSOT-03	Production of disease free planting material in Sweet Orange	Three	III
4	WARSOT-04	Irrigation & Drainage management in Sweet Orange	One	IV
5	WARSOT-05	Training and Pruning in Sweet Orange	One	V
6	WARSOT-06	Value addition of marketing in Sweet Orange	One	VI

**D. Turmeric**

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	WARTT-01	Turmeric Processing	One	I
2	WARTT-02	Production of good quality planting material in crops	One	II

**E. Flower Crops**

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	WARFT-01	Production of seed & planting material of flower crops	One	I

2	WARFT-02	Cutting & pruning in Roses	One	I
3	WARFT-03	Plant Protection in flowers	One	II
4	WARFT-04	Irrigation & Drainage management in flower crops	One	III
5	WARFT-05	Post Harvest management for value addition in flower crops	One	IV

#### F. Special Activities

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	WARFCTT-05	Establishment of Community Tanks	One	I
2	WARGHT-05	Construction & Management of Green House	Two	I
3	WARPHT-05	Establishment of Pack House	One	I

### 8. Gondia

#### a) Mango

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	GONMT-01	In situ planting Technique in Mango	One	I
2	GONMT-02	Protection of Inflorescence in Mango	One	II
3	GONMT-03	Micronutrient Management in Mango	One	III
4	GONMT-04	Irrigation Management in Mango	One	IV
5	GONMT-05	Value addition in Mango	One	V

#### b) Anola

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	GONAT-01	Production of Grafts of Anola	One	I

2	GONAT-02	Establishment of Anola orchard	One	II
3	GONAT-03	Processing and Marketing of Anola	One	III

**c) Sapota :**

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	GONST-01	Cultivation Practices in Sapota	One	I

**d) Vegetables**

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	GONVT-01	Nursery management in Vegetable	One	I
2	GONVT-02	Post Harvest Management & Processing of Vegetables	One	II

**e) Turmeric**

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	GONTT-01	Selection of good quality planting material	One	I
2	GONTT-02	Turmeric Processing	One	II

**f) Training Programme for Special NHM activities**

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	GONCTT-01	Establishment of Community Tanks	One	I
2	GONGHT-01	Construction & Management of Green House	Two	I
3	GONPHT-01	Establishment of Pack House	One	I

## 9. Chandrapur

### A. Mango

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1.	CHPMT-01	In situ planting Technique in Mango	One	I
2.	CHPMT-02	Protection of Inflorescence in Mango	One	II
3.	CHPMT-03	Nutrient management in Mango	One	III
4.	CHPMT-04	Irrigation Management in Mango	Two	IV
5.	CHPMT-05	Processing & Marketing of Mango	Two	V

### B. Sapota

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	CHPST-01	Cultivation Practices of Sapota	Two	I
2	CHPST-02	Nutrient management in Sapota	Two	II
3	CHPST-03	Pre and post harvesting techniques in Sapota	One	III

### C. Anola

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	CHPAT-01	Package of Practices of Anola Caltivation	One	I
2	CHPAT-02	Production of Grafts of Anola	One	II
3	CHPAT-03	Processing and Marketing of Anola	Two	III

### D. Turmeric

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	CHPTT-01	Selection of Good quality Planting	One	I

		Material		
2	CHPTT-02	Processing of Turmeric	One	II

### **E. Vegetables**

<b>Sr. No.</b>	<b>Course Code</b>	<b>Title of Training Course</b>	<b>Duration (Days)</b>	<b>Priority</b>
1	CHPVT-01	Nursery Management in Chilies & Onion		I
2	CHPVT-02	Seed production in Chilies Onion & Wal		I
3	CHPVT-03	Plant Protection in chilies		II
4	CHPVT-04	Nutrient management in Chilies & Onion		II
5	CHPVT-05	Harvest management in Chilies & Onion		III

### **F. Special Activities**

<b>Sr. No.</b>	<b>Course Code</b>	<b>Title of Training Course</b>	<b>Duration (Days)</b>	<b>Priority</b>
1	CHPCTT-01	Establishment of Community Tanks	One	I
2	CHPGHT-01	Construction & Management of Green House	Two	I
3	CHPPHT-01	Establishment of Pack House	One	I

## 10. Gadchiroli

### a) Mango

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	GADMT-01	Establishment of In situ plantation in Mango	One	I
2	GADMT-02	Nutrient management in Mango	One	II
3	GADMT-03	Post harvest Management in Mango	One	III
4	GADMT-04	Canopy Management in Mango	One	IV
5	GADMT-05	Protection of Inflorescence	One	IV
6	GADMT-06	Irrigation Management in Mango	One	IV
7	GADMT-07	Processing of Mango	One	V

### b) Cashew

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	GADCT-01	In situ plantation of Cashew	One	I
2	GADCT-02	Contour plantation of cashew in Hilly Area	One	II
3	GADCT-03	Nutrient management in Cashew	One	II
4	GADCT-04	Rejuvenation of Cashew trees	One	III
5	GADCT-05	Integrated Pest Management in Cashew	One	IV
6	GADCT-06	Cashewnut and Cashew apple processing technology	One	V

### c) Sapota

Sr. No.	Course Code	Title of Training Course	Duration (Days)	Priority
1	GADST-01	Cultivation Practices in Sapota	Two	I

2	GADST-02	Nutrient management in Sapota	One	II
3	GADST-03	Harvesting technology in Sapota	One	III

**d) Vegetables**

<b>Sr. No.</b>	<b>Course Code</b>	<b>Title of Training Course</b>	<b>Duration (Days)</b>	<b>Priority</b>
1	GADV-T-01	Nursery management in Chillies & Onion	One	I
2	GADV-T-02	Storage of Onion (Kanda Chal)	One	I
3	GADV-T-03	Plant protection in Chillies	One	II
4	GADV-T-03	Post harvest technology in Chillies & Onion	One	II

**e) Training Programme for Special NHM activities**

<b>Sr. No.</b>	<b>Course Code</b>	<b>Title of Training Course</b>	<b>Duration (Days)</b>	<b>Priority</b>
1	GADCTT-01	Establishment of Community Tanks	One	I
2	GADGHT-02	Construction & Management of Green House	Two	I
3	GADPHT-03	Establishment of Pack House	One	I

# Design of Training Courses Planned Amravati

## Orange

### *1. Course Code: AMROT-01*

#### **Title: Phytophthora Control in Orange**

- Target group: Orange growers
- Duration: Two days
- Month: September - October
- Venue: District Training Center/ Agropolyclinic / KVK /ARS/ NRC/ SAU Farm/ Progressive Farmers' Orange orchard

#### **Objectives**

- To develop understanding about causes & symptoms of Phytophthora disease in Orange
- To develop knowledge & skill in pruning of decayed roots & dried branches
- To develop knowledge & skill in application of Redomil & Bordeaux paste

#### **Course Content**

- Symptoms of Phytophthora
- Causes of Phytophthora
- Pruning of shoots
- Digging of Beds
- Pruning of roots
- Drenching with Ridomeal
- Application of neem cake, biopesticide & biofertilizers
- Application of Bordeaux paste
- Drenching of Bordeaux Mixture
- Irrigation methods to prevent Phytophthora

#### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### *2. Course Code: AMROT-02*

#### **Title: Management of Irrigation and Drainage in Orange**

- Target group: Orange growers
- Duration: Two days

- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK /NRC/ SAU/ Progressive Farmers' Orange orchard

### **Objectives**

- To develop understanding about water requirement of Santra at diff. stages
- To develop knowledge skill in water scheduling
- To inculcate in trainees importance of drainage for Santra

### **Course Content**

- Different methods of irrigation
- Water requirement of Orange according to crop load, canopy & type of soil
- Scheduling of irrigation
- Testing of water holding capacity
- Permanent wilting point and field capacity
- Diff. Types of drainage systems
- Role of drainage
- Effect of bad drainage on fruit quality & plant health

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### **3. Course Code: AMROT-03**

#### **Title: Rejuvenation of Declined Orchards**

- Target group: Orange growers who have applied for rejuvenation
- Duration: One day
- Month: September to December
- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers' Old Orange orchard

### **Objectives**

- To develop knowledge and skill in effective pruning of Orange trees
- To motivate farmers to adopt rejuvenation practices for old gardens

### **Course Content**

- Pruning
- Application of fertilizers
- Plant protection
- Preparation of Bordeaux Paste & use

- Time of pruning

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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#### **4. Course Code: AMROT-4**

#### **Title: Integrated Nutrient Management in Orange**

- Target group: Orange growers
- Duration: Two days
- Month: June-July
- Venue: District Training Center/ Agropolyclinic / KVK / ARS/ NRC/ SAU Farm/ Progressive Farmers' Orange orchard

#### **Objectives**

- To impart knowledge & understanding to the trainees about nutrient requirement of Orange
- To impart knowledge & skill about preparation of micronutrients at field level
- To impart skill in use of biofertilizers, Organic matter & fertilizers

#### **Course Content**

- Role of major & micro nutrients in quality fruit production
- Assessment of soil health at field level
- Deficiency Symptoms of major & micronutrients
- Preparation of micronutrients at field level
- Use of Biofertilizers
- Use of liquid/ soluble fertilizers
- Schedule of major and minor elements
- Methods of application

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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#### **5. Course Code: AMROT-05**

#### **Title: Post Harvest Management in Orange**

- Target group: Orange growers
- Duration: One day
- Month: December to February

- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers' Orange orchard

**Objectives**

- To develop knowledge and understanding about quality parameters of fruits before harvesting
- To develop skill of harvesting, precooling & use of fungicides for fruit treatment

**Course Content**

- Identification of maturity of fruits & quality parameters
- TSS /Acidity /Acid Sugar ratio /Juice % /Skin thickness /Colour
- Harvesting method
- Precooling
- Grading
- Packing
- Use of fungicides for fruit treatment

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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**6. Course Code: AMROT-06**

**Title: Good Agriculture Practices in Orange**

- Target group: Orange growers
- Duration: One day
- Month: September to December
- Venue: District Training Center/ Agropolyclinic / KVK /NRC/ SAU/ Progressive Farmers' Orange orchard

**Objectives**

- To develop knowledge of farmers about the GAP in Orange about cultivation, production & preharvest management

**Course Content**

- Principles of Good Agriculture Practices
- Requirements of GAP in Orange
- Export standards for Fresh Orange fruits
- GAP related to production of Orange
- GAP related to post harvest management of Orange

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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**7. Course Code: AMROT-07****Title: Value addition & Marketing of Orange**

- Target group: Orange growers & agri- entrepreneurs(NHM)
- Duration: Two days
- Month: March-April
- Venue: District Training Center/ Agropolyclinic / KVK /Orange Processing Unit

**Objectives**

- To develop knowledge & skill of trainee farmers in preparation of selected byproducts from Orange
- To develop knowledge about use of Orange in cosmetics, animal feed, peel oil & winery
- To motivate farmers to establishment Orange Growers Marketing & processing groups in rural area

**Course Content**

- Byproducts from Orange Juice
- Marmalade
- Concentrated Juice
- Preservation of slices
- Use of orange in cosmetics
- Extraction of peel oil
- Preparation of Wine from Orange
- Establishment of Orange Growers' & Marketing Associations
- Formation of Processing & Marketing interest groups

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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## **Mango**

### ***1. Course Code: AMRMT-01***

#### **Title: In situ plantation of Mango**

- Target group: Farmers who have registered for Mango plantation
- Duration: One day
- Month: May & June
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

#### **Objectives**

- To develop knowledge and skill in digging & filling of pits
- To train in selection of stones of mango
- To train in grafting of mango

#### **Course Content**

- Selection of site
- Soil testing
- Layout & spacing
- Digging & Filling of pits
- Preparation of pot mixture
- Selection & Sowing of stones
- Selection of Mother block & varieties of Mango
- Grafting techniques
- After care
- Intercropping

#### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### ***2. Course Code: AMRMT-02***

#### **Title: Plant protection in Mango**

- Target group: Mango growers
- Duration: One day
- Month: August to October
- Venue: District Training Center/ Agropolyclinic / Horticulture nursery/ Mango grower's orchard

#### **Objectives**

- To develop knowledge about different diseases and pests in Mango
- To develop skill in pruning & use of fungicides for control of pests and diseases

#### **Course Content**

- Concept of Integrated Pest management in Mango

- Pests & Diseases on Mango
- Pruning
- Application of Bordeaux
- Control of Jassids
- Malformation
- Use of Fungicides

#### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### ***3. Course Code: AMRMT-03***

#### **Title: Integrated Nutrient Management in Mango**

- Target group: Farmers who have registered for Mango plantation
- Duration: One day
- Month: May & June
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

#### **Objectives**

- To develop knowledge about nutrient requirement of mango in pre bearing stage
- To train the farmers about use of biological & chemical fertilizers

#### **Course Content**

- Uptake & requirement of nutrients
- Nutritional management in pre bearing orchard
- Yearwise schedule
- Nutrition manage in bearing orchards
- Use of Biofertilizers & chemical fertilizers

#### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### ***4. Course Code: AMRMT-04***

#### **Title: Irrigation management in Mango**

- Target group: Farmers who have registered for Mango plantation
- Duration: One day
- Month: May & June
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

#### **Objectives**

- To develop knowledge about the importance of irrigation for Mango

- To know and apply different methods of irrigation in Mango

### **Course Content**

- Water requirement of Mango
- Scheduling of Irrigation
- Methods of irrigation
- Micro irrigation Techniques
- Mulching

### **Resource Persons**

Master trainers, Horticulture officers and Mango Scientists from SAU & KVK, Progressive mango growers

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### **5. Course Code: AMRMT-05**

#### **Title: Technology for Regular Bearing in Mango**

- Target group: Farmers who have registered for Mango plantation
- Duration: One day
- Month: May & June
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

#### **Objectives**

- To understand the principles of Inflorescence management
- To develop knowledge about use of hormones for regular bearing in mango
- To develop skill for canopy & nutrition management practices

#### **Course Content**

- Concept of regular bearing in mango
- Principles of Inflorescence management
- Role of hormones in regular bearing
- Method of application of hormones
- Role & practices of canopy management
- Role & practices of nutrition management

#### **Resource Persons**

Master trainers in DoA, Crop scientists from SAU/ ARS/ KVK, Progressive farmers

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**6. Course Code: AMRMT-06**

**Title: Post Harvest Management of Mango Fruits**

- Target group: Mango growers
- Duration: One day
- Month: May & June
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

**Objectives**

- To develop understanding & skill in harvesting Mango
- To develop knowledge skill in fungicidal treatment of fruits
- To impart knowledge about packing of Mango fruits

**Course Content**

- Proper harvesting techniques
- Use of harvester
- Precooling
- Treatment of fungicides
- Grading of mango fruits
- Ripening technology
- Packing technology

**Resource Persons**

Master trainers, Horticulture officers and Mango Scientists from SAU & KVK, Progressive mango growers

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**7. Course Code: AMRMT-07**

**Title: Processing of Mango fruits**

- Target group: Mango growers
- Duration: Two day
- Month: May to June
- Venue: District Training Center/ SAU / KVK / Mango processing unit

**Objectives**

- To develop knowledge and skill in preparation of different products of Mango
- To prepare project for small processing unit

### **Course Content**

- Principles of preservation
- Processing of raw mango fruits
- Processing of ripe fruits
- Recipes of byproducts from mango
- Packaging of byproducts
- Establishment of small mango processing unit
- Project preparation

### **Resource Persons**

Master trainers, Mango Scientists from SAU & KVK, Technologists from processing industry & Progressive mango growers

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## **Sweet Orange**

### ***1. Course Code: AMRSOT-01***

#### **Title: Establishment of Sweet Orange Orchard**

- Target group: Farmers who have registered for Sweet Orange plantation
- Duration: One day
- Month: May to June
- Venue: District Training Center/ Agropolyclinic/ SAU / ARS/ NRC/ KVK

#### **Objectives**

- To impart knowledge about soil selection for Sweet Orange
- To impart knowledge and skill about digging & filling of pits
- To impart skill of selection of good planting material
- To develop skill of proper planting of Sweet Orange grafts

#### **Course Content**

- Site selection
- Soil testing
- Filling of pits
- Preparation of pot mixture
- Selection of planting material
- Planting

- After care
- Intercropping

**Resource Persons**

Master trainers, Mango Scientists from SAU & KVK & Progressive Sweet Orange growers

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**2. Course Code: AMRSOT-02**

**Title: Integrated Nutrient Management in Sweet Orange**

- Target group: Sweet Orange growers
- Duration: Two days
- Month: June-July
- Venue: District Training Center/ Agropolyclinic / KVK / ARS/ NRC/ SAU Farm/ Progressive Farmers' Sweet Orange orchard

**Objectives**

- To impart knowledge & understanding to the trainees about nutrient requirement of Sweet Orange
- To impart knowledge & skill about preparation of micronutrients at field level
- To impart skill in use of biofertilizers, Organic matter & fertilizers

**Course Content**

- Role of major & micro nutrients in quality fruit production
- Assessment of soil health at field level
- Deficiency Symptoms of major & micronutrients
- Preparation of micronutrients at field level
- Use of Biofertilizers
- Use of liquid/ soluble fertilizers
- Schedule of major and minor elements
- Methods of application

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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**3. Course Code: AMRSOT-03**

**Title: Production of Disease Free Planting Material**

- Target group: Sweet Orange growers & Nursery owners(NHM)

- Duration: Three days
- Month: September to December
- Venue: Horticulture nursery/ District Training Center/ Agropolyclinic / KVK / NRC/ SAU Nursery

### **Objectives**

- To help trainees to know about good quality stock & scion
- To help in gaining knowledge of establishment of primary nursery & secondary nursery
- To develop knowledge skill in solarization of soil
- To impart knowledge about hardening of plants

### **Course Content**

- Need for quality planting material
- Selection of site for nursery
- Establishment of Mother Block of Stock & scion
- Establishment Of primary nursery (Seed-Seedlings)
- Establishment Of secondary nursery (Budding-Salable)
- Demonstration of solarization
- Use of fungicides
- Hardening of plants
- Green house & Polyhouse
- Management of nursery

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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#### ***4. Course Code: AMRSOT-12***

##### **Title: Training & Pruning in Sweet Orange**

- Target group: Sweet Orange growers
- Duration: One day
- Month: June- July
- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers' Sweet Orange orchard

### **Objectives**

- To acquaint trainees to importance of training & pruning

- To develop knowledge and skill in training & pruning

#### **Course Content**

- Removal of site shoots on stock & scion in pre bearing orchard
- Proper training
- Thinning of branches
- Removal of water shoots

#### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK,  
Progressive Farmers

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#### **5.Course Code: AMRSOT-05**

##### **Title: Management of Irrigation and Drainage in Orange**

- Target group: Sweet Orange growers
- Duration: Two days
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK /NRC/ SAU/ Progressive Farmers' Sweet Orange orchard

#### **Objectives**

- To develop understanding about water requirement of Sweet Orange at diff. stages
- To develop knowledge skill in water scheduling
- To inculcate in trainees importance of drainage for Sweet Orange

#### **Course Content**

- Different methods of irrigation
- Water requirement of Orange according to crop load, canopy & type of soil
- Scheduling of irrigation
- Testing of water holding capacity
- Permanent wilting point and field capacity
- Diff. Types of drainage systems
- Role of drainage
- Effect of bad drainage on fruit quality & plant health

#### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK,  
Progressive Farmers

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## **6. Course Code: AMRSOT-06**

### **Title: Value addition & Marketing of Sweet Orange**

- Target group: Sweet Orange growers & agri- entrepreneurs(NHM)
- Duration: Two days
- Month: March-April
- Venue: District Training Center/ Agropolyclinic / KVK / Sweet Orange Processing Unit

### **Objectives**

- To develop knowledge & skill of trainee farmers in preparation of selected byproducts from Sweet Orange
- To develop knowledge about use of Sweet Orange in cosmetics, animal feed, peel oil & winery
- To motivate farmers to establishment Sweet Orange Growers Marketing & processing groups in rural area

### **Course Content**

- Byproducts from Sweet Orange Juice
- Concentrated Juice
- Preservation of slices
- Use of orange in cosmetics
- Extraction of peel oil
- Establishment of Sweet Orange Growers' & Marketing Associations
- Formation of Processing & Marketing interest groups

### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ NRC/ KVK, Owners of processing units, Progressive farmers

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## **Ginger**

### ***1. Course Code: AMRGT-01***

#### **Title: Selection of Good Quality Planting Material**

- Target group: Farmers registered for Ginger plantation
- Duration: One day
- Month: May-June
- Venue: District Training Center/ Agropolyclinic / SAU/ KVK

#### **Objectives**

- To develop skill in selection of rhizomes
- To motivate for the use of good quality rhizomes
- To develop knowledge about proper storage of rhizomes

#### **Course Content**

- Selection of Rhizomes
- Selection of Ginger varieties
- Assessment of Good Quality Rhizomes
- Fungicidal treatment of Rhizomes
- Proper storage of Rhizomes

#### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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### ***2. Course Code: AMRGT-02***

#### **Title: Integrated Nutrition Management in Ginger**

- Target group: Ginger growers
- Duration: One day
- Month: June- July
- Venue: District Training Center/ Agropolyclinic / SAU/ KVK / Progressive farmer's field

#### **Objectives**

- To develop knowledge about uptake & requirement of nutrients for ginger
- To know importance of organic matter & micronutrients in quality production of ginger
- To develop skill for preparation of organic matter on the farm

### **Course Content**

- Uptake & requirement of nutrients
- Importance of organic matter
- Role of micronutrients
- Preparation of organic matter
- Use of biofertilizers

### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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### **3. Course Code: AMRGT-03**

#### **Title: Processing of Ginger**

- Target group: Ginger growers
- Duration: One day
- Month: January- February
- Venue: District Training Center/ Agropolyclinic / SAU/ KVK / Progressive farmer's field

#### **Objectives**

- To develop skill about the processing of Ginger
- To develop knowledge & skill about good quality of Dry Cure Ginger
- To know proper methods of storage of processed ginger

#### **Course Content**

- Principles of processing of ginger
- Technology of ginger processing
- Quality of Dry Cured Ginger
- Storage of Dry Cured Ginger

#### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Owner of Ginger processing unit , Progressive farmers

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## **Flower Cops**

### ***1. Course Code: AMRFT-01***

#### **Title: Cultivation Technology for Rose & Galardia**

- Target group: Floriculture beneficiaries under NHM
- Duration: One day
- Month: August- September
- Venue: District Training Center/ Agropolyclinic / SAU/ KVK / Progressive farmer's field

#### **Objectives**

- To impart knowledge about package of practices for cultivation of Rose and Galardia developed by PDKV, Akola

#### **Course Content**

- Scope for production of Rose and Galardia
- Selection of soil, variety and planting material
- Methods of cultivation
- Nutrition management
- Plant protection
- Irrigation management
- Harvesting & packing

#### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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### ***2. Course Code: AMRFT-02***

#### **Title: Production of Planting Material of Flower Crops**

- Target group: Floriculture beneficiaries under NHM
- Duration: Two days
- Month: November- December
- Venue: District Training Center/ Agropolyclinic / SAU/ KVK / Progressive farmer's field

#### **Objectives**

- To develop knowledge about greenhouse & polyhouse
- To develop knowledge and skill in diff. methods of flower seed production

- To develop skill in good flower nursery practices for production of planting material

#### **Course Content**

- Preparation of seeding in Green house & Polyhouse
- Preparation in open field
- Selection of flowers
- Self pollination, isolation
- Bed treatment
- Seed treatment
- Fertigation
- Irrigation
- Plant protection
- Grading of planting material

#### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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### ***3. Course Code: AMRFT-03***

#### **Title: Plant Protection in Flower crops**

- Target group: Floriculture beneficiaries under NHM
- Duration: One day
- Month: August- September
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

#### **Objectives**

- To develop knowledge about pest and diseases of Rose & other flower crops
- To sensitize about principles of integrated pest management in flower crops

#### **Course Content**

- Identification of pests & diseases
- Nature of damage
- Management diseases and pests
- Principles & practices of IPM
- Use of Biopesticides

### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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#### ***4. Course Code: AMRFT-04***

#### **Title: Micro irrigation & fertigation in flower crops**

- Target group: Floriculture beneficiaries under NHM
- Duration: One day
- Month: October- November
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

#### **Objectives**

- To develop knowledge & understanding about different irrigation methods for flower crops
- To develop knowledge about use & scheduling of liquid & soluble fertilizer for different flower crops

#### **Course Content**

- Different methods of irrigation for diff. flower crops
- Mulching techniques
- Application of fertilizer through drip irrigation system
- Scheduling of liquid/ soluble fertilizers

### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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#### ***5. Course Code: AMRFT-05***

#### **Title: Cutting and Pruning Technology in Rose**

- Target group: Rose cultivators
- Duration: One day
- Month: October- November
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK / Progressive farmer's field

#### **Objectives**

- To orient trainees about advantages of pruning
- To develop the skill in pruning Roses & its aftercare
- To develop skill about debudding, thinning of branches for shaping Roses

### **Course Content**

- Diff. Types of pruning in Rose
- Time & method of pruning
- Scheduling of manures & fertilizers after pruning
- Irrigation & plant protection after pruning
- Thinning of branches
- Debudding
- Removal of dead branches
- Proper shape & size of plants

### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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## **6. Course Code: AMRFT-06**

### **Title: Post harvest care and Packing of flowers**

- Target group: Floriculture beneficiaries under NHM
- Duration: One day
- Month: November-December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK / Progressive farmer's field

### **Objectives**

- To develop the skill of farmers in debudding in Roses
- To develop knowledge and skill about increasing shelf life grading & packing of flowers

### **Course Content**

- Debudding in roses
- Proper time of harvesting
- Method of harvesting
- Bagging of flowers
- Treatment for increasing shelf life
- Cleaning

- Grading
- Packing

### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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### **7. Course Code: AMRFT-07**

#### **Title: Value Addition in Flowers**

- Target group: Floriculture beneficiaries under NHM
- Duration: One day
- Month: December to February
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK / Processing Unit

#### **Objectives**

- To develop knowledge and skill in preparation of diff. value added product of flowers
- To impart knowledge extraction of essence
- To develop skill in trainees about art of Floral arrangements

#### **Course Content**

- Preparation of Bouquet, garlands & other products
- Extraction of essence from flowers
- Preparation of Gulkand & Gulabjal
- Floral arrangements (Ekebana)
- Preparation of Floral Medicines

### **Resource Persons**

Master Trainers in DoA, Flower Merchants, Experts in Floral extraction, Food Technologists from SAU/ KVK, Progressive farmers

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## **Special Activities**

### **1. Course Code: AMRCTT-01**

#### **Title: Establishment of Community Tanks**

- Target group: Beneficiaries under NHM
- Duration: One day
- Month: October to December

- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

### **Objectives**

- To impart knowledge about selection of site for community tanks
- To enable the trainees to prepare estimates of construction of community tank
- To facilitate the trainees in planning for construction of community tank

### **Course Contents**

- Selection of site
- Design of community tank
- Estimation of earthwork
- Preparation of estimate
- Planning for construction of community tank

### **Resource Persons**

Master trainers from DoA

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2. Course Code: AMRGHT-01

### **Title: Construction & Management of Green House**

- Target group: Beneficiaries under NHM
- Duration: Two days
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

### **Objectives**

- To impart knowledge about Green House Technology
- To know various components of Green House construction
- To facilitate the trainees in selection of crops to be grown under Green House conditions
- To impart skill for execution of various practices in Green House

### **Course Contents**

- Principles of Green House construction
- Selection of site for Green House
- Components of Green House
- Selection of crop & varieties for cultivation in Green House

- Preparation of beds
- Fertigation management
- Plant protection in Green House

**Resource Persons**

Master trainers from DoA, Experts from Horticulture Training Center- Talegaon, Technologists from SAU/ Private firms

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**3. Course Code: AMRPHT-01**

**Title: Construction & Management of Green House**

- Target group: Beneficiaries under NHM
- Duration: One day
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

**Objectives**

- To impart knowledge about Pack House Technology
- To know various components of Pack House construction
- To impart skill for preparation of project for Pack House

**Course Contents**

- Scope for Pack House construction
- Selection of site for Pack House
- Components of Pack House
- Scheduling of crop & varieties for storage in Pack House
- Preparation of project proposal of Pack house

**Resource Persons**

Master trainers from DoA, Experts from Horticulture Training Center- Talegaon, Technologists from SAU/ Private firms

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# Design of Training Courses Planned

## Akola

### ***1.Course Code AKOT-01:***

#### **Title: Establishment of Orange Orchard**

- Target group: Farmers who have registered for Orange plantation
- Duration: One day
- Month: May - June
- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers' Orange orchard

#### **Objectives**

- To impart knowledge about soil selection for Orange and testing soils
- To impart knowledge and skill about digging & filling of pits
- To impart skill of preparing pot mixture
- To develop skill of actual planting of Orange plants

#### **Course Content**

- Site selection
- Soil testing
- Digging & Filling of pits
- Preparation of pot mixture
- Selection of planting material
- Planting
- After care
- Intercropping

#### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### ***2. Course Code: AKOT-02***

#### **Title: Phytophthora Control in Orange**

- Target group: Orange growers
- Duration: Two days
- Month: September - October

- Venue: District Training Center/ Agropolyclinic / KVK /ARS/ NRC/ SAU Farm/ Progressive Farmers' Orange orchard

### **Objectives**

- To develop understanding about causes & symptoms of Phytophthora disease in Orange
- To develop knowledge & skill in pruning of decayed roots & dried branches
- To develop knowledge & skill in application of Redomil & Bordeaux paste

### **Course Content**

- Symptoms of Phytophthora
- Causes of Phytophthora
- Pruning of shoots
- Digging of Beds
- Pruning of roots
- Drenching with Ridomeal
- Application of neem cake, biopesticide & biofertilizers
- Application of Bordeaux paste
- Drenching of Bordeaux Mixture
- Irrigation methods to prevent Phytophthora

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### **3. Course Code: AKOT-03**

#### **Title: Production of Quality Planting Material**

- Target group: Orange growers & Nursery owners(NHM)
- Duration: Three days
- Month: September to December
- Venue: Horticulture nursery/ District Training Center/ Agropolyclinic / KVK / NRC/ SAU Nursery

### **Objectives**

- To help trainees to know about good quality stock & scion
- To help in gaining knowledge of establishment of primary nursery & secondary nursery
- To develop knowledge skill in solarization of soil
- To impart knowledge about hardening of plants

### **Course Content**

- Need for quality planting material
  - Selection of site for nursery
  - Establishment of Mother Block of Stock & scion
  - Establishment Of primary nursery (Seed-Seedlings)
  - Establishment Of secondary nursery (Budding-Salable)
  - Demonstration of solarization
  - Use of fungicides
  - Hardening of plants
  - Green house & Polyhouse
  - Management of nursery
- 

#### **4. Course Code: AKOT-04**

##### **Title: Rejuvenation of Declined Orchards**

- Target group: Orange growers who have applied for rejuvenation
- Duration: One day
- Month: September to December
- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers' Old Orange orchard

##### **Objectives**

- To develop knowledge and skill in effective pruning of Orange trees
- To motivate farmers to adopt rejuvenation practices for old gardens

##### **Course Content**

- Pruning
- Application of fertilizers
- Plant protection
- Preparation of Bordeaux Paste & use
- Time of pruning

##### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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#### **5. Course Code: AKOT-4**

##### **Title: Integrated Nutrient Management in Orange**

- Target group: Orange growers
- Duration: Two days

- Month: June-July
- Venue: District Training Center/ Agropolyclinic / KVK / ARS/ NRC/ SAU Farm/ Progressive Farmers' Orange orchard

### **Objectives**

- To impart knowledge & understanding to the trainees about nutrient requirement of Orange
- To impart knowledge & skill about preparation of micronutrients at field level
- To impart skill in use of biofertilizers, Organic matter & fertilizers

### **Course Content**

- Role of major & micro nutrients in quality fruit production
- Assessment of soil health at field level
- Deficiency Symptoms of major & micronutrients
- Preparation of micronutrients at field level
- Use of Biofertilizers
- Use of liquid/ soluble fertilizers
- Schedule of major and minor elements
- Methods of application

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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## **6. Course Code: AKOT-06**

### **Title: Micro Irrigation and Drainage Technology in Orange**

- Target group: Orange growers
- Duration: Two days
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK /NRC/ SAU/ Progressive Farmer's Orange orchard

### **Objectives**

- To develop understanding about water requirement of Orange at diff. stages
- To develop knowledge skill in micro irrigation
- To inculcate in trainees importance of drainage for Orange

### **Course Content**

- Different methods of irrigation
- Water requirement of Orange according to crop load, canopy & type of soil
- Micro irrigation technology

- Installation of Drip Irrigation System
- Different types of drainage systems
- Effect of bad drainage on fruit quality & plant health

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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**7.Course Code: AKOT-07**

**Title: Grading, Packing and Processing of Orange**

- Target group: Orange growers
- Duration: One day
- Month: December to February
- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers’ Orange orchard

**Objectives**

- To develop knowledge and understanding about quality parameters of fruits before harvesting
- To impart knowledge about processing of Orange

**Course Content**

- Identification of maturity of fruits & quality parameters
- Harvesting method
- Precooling
- Grading
- Packing
- Processing of Orange

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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**Kagazi Lime**

**1. Course Code: AKKLT-01**

**Title: Production of quality planting material**

- Target group: Kagazi Lime growers & Nursery owners(NHM)
- Duration: Three days

- Month: September to December
- Venue: Horticulture nursery/ District Training Center/ Agropolyclinic / KVK / NRC/ SAU Nursery

### **Objectives**

- To help trainees to know about good quality stock & scion
- To help in gaining knowledge of establishment of primary nursery & secondary nursery
- To develop knowledge skill in solarization of soil
- To impart knowledge about hardening of plants

### **Course Content**

- Need for quality planting material
  - Selection of site for nursery
  - Establishment of Mother Block of Stock & scion
  - Establishment Of primary nursery (Seed-Seedlings)
  - Establishment Of secondary nursery (Budding-Salable)
  - Demonstration of solarization
  - Use of fungicides
  - Hardening of plants
  - Green house & Polyhouse
  - Management of nursery
- 

## **2. Course Code: AKKLT-02**

### **Title: Integrated Nutrient Management in Kagazi Lime**

- Target group: Kagazi Lime growers
- Duration: Two days
- Month: June-July
- Venue: District Training Center/ Agropolyclinic / KVK / ARS/ NRC/ SAU Farm/ Progressive Farmers' Kagazi Lime orchard

### **Objectives**

- To impart knowledge & understanding to the trainees about nutrient requirement of Orange
- To impart knowledge & skill about preparation of micronutrients at field level
- To impart skill in use of biofertilizers, Organic matter & fertilizers

### **Course Content**

- Role of major & micro nutrients in quality fruit production

- Assessment of soil health at field level
- Deficiency Symptoms of major & micronutrients
- Preparation of micronutrients at field level
- Use of Biofertilizers
- Use of liquid/ soluble fertilizers
- Schedule of major and minor elements
- Methods of application

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### **3. Course Code: AKKLT-03**

#### **Title: Bahar regulation in Kagazi Lime**

- Target group: Kagazi Lime growers
- Duration: Two days
- Month: September- October
- Venue: District Training Center/ Agropolyclinic / KVK / NRC/ SAU/ Progressive Farmers' Kagazi Lime orchard

#### **Objectives**

- To impart knowledge about growth hormones & retardants
- To develop skill in use of growth regulators & micronutrients
- To develop skill in noting the stress
- To develop knowledge and skill in induction of Mrug, Hast & Ambia Bahar in Orange

#### **Course Content**

- Role of Bahar treatment
- Role of Growth Hormones & retardants
- Induction of Hast Bahar
- Control of Fruit drop
- Use of growth regulators & micronutrients for quality improvement
- Mulching for fruit drop control
- Induction of Mrig Bahar
- Identification of water stress
- Use of growth retardants in case of untimely rains

- Control of fruit cracking & fruit drop
  - Improvement of drainage
  - Favorable climatic conditions for Mrig Bahar
- 

#### **4. Course Code: AKKLT-04**

##### **Title: Irrigation management in Kagazi Lime**

- Target group: Kagazi Lime growers
- Duration: Two days
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK /NRC/ SAU/ Progressive Farmers' Kagazi Lime orchard

##### **Objectives**

- To develop understanding about water requirement of Kagazi Lime at different stages
- To develop knowledge skill in micro irrigation
- To inculcate in trainees importance of drainage for Kagazi Lime

##### **Course Content**

- Different methods of irrigation
- Water requirement of Kagazi Lime according to crop load, canopy & type of soil
- Micro irrigation technology
- Installation of Drip Irrigation System
- Different types of drainage systems
- Effect of bad drainage on fruit quality & plant health

##### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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#### **5. Course Code: AKKLT-05**

##### **Title: Plant protection in Kagazi Lime**

- Target group: Kagazi Lime growers
- Duration: One day
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK /NRC/ SAU/ Progressive Farmers' Kagazi Lime orchard

### **Objectives**

- To develop knowledge about different diseases and pests in Kagazi Lime
- To develop skill in pruning & use of fungicides for control of pests and diseases

### **Course Content**

- Pests & Diseases on Kagazi Lime
  - Management of pests
  - Management of Citrus canker
  - Use of Biopesticides
- 

### **6. Course Code: AKKLT-06**

#### **Title: Grading & packing in Kagazi Lime**

- Target group: Kagazi Lime growers
- Duration: One day
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK /NRC/ SAU/ Progressive Farmers' Kagazi Lime orchard

### **Objectives**

- To develop knowledge and understanding about quality parameters of fruits before harvesting
- To impart knowledge about grading & packing of Kagazi Lime

### **Course Content**

- Identification of maturity of fruits & quality parameters
- Harvesting method
- Grading
- Packing

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU/ NRC

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## **Mango**

### **1. Course Code:AKMT-01**

#### **Title: In situ plantation of Mango**

- Target group: Farmers who have registered for Mango plantation
- Duration: One day
- Month: May & June
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

**Objectives**

- To develop knowledge and skill in digging & filling of pits
- To train in selection of stones of mango
- To train in grafting of mango

**Course Content**

- Selection of site
- Soil testing
- Layout & spacing
- Digging & Filling of pits
- Preparation of pot mixture
- Selection & Sowing of stones
- Selection of Mother block & varieties of Mango
- Grafting techniques
- After care
- Intercropping

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, KVK, Progressive Farmers

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**2. Course Code: AKMT-02****Title: Integrated Nutrient Management in Mango**

- Target group: Mango growers
- Duration: One day
- Month: June To August
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

**Objectives**

- To develop knowledge about nutrient requirement of mango in pre bearing stage
- To train the farmers about use of biological & chemical fertilizers

**Course Content**

- Uptake & requirement of nutrients
- Nutritional management in pre bearing orchard
- Yearwise schedule
- Nutrition manage in bearing orchards
- Use of Biofertilizers & chemical fertilizers

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, KVK, Progressive Farmers

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### **3. Course Code: AKMT-03**

#### **Title: Plant protection in Mango**

- Target group: Mango growers
- Duration: One day
- Month: August to October
- Venue: District Training Center/ Agropolyclinic / Horticulture nursery/ Mango grower's orchard

#### **Objectives**

- To develop knowledge about different diseases and pests in Mango
- To develop skill in pruning & use of fungicides for control of pests and diseases

#### **Course Content**

- Concept of Integrated Pest management in Mango
- Pests & Diseases on Mango
- Pruning
- Application of Bordeaux
- Control of Jassids
- Malformation
- Use of Fungicides

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### **4. Course Code: AKMT-04**

#### **Title: Technology for Regular Bearing in Mango**

- Target group: Mango growers
- Duration: One day
- Month: July to September
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery / Progressive farmer's orchard

#### **Objectives**

- To understand the principles of Inflorescence management
- To develop knowledge about use of hormones for regular bearing in mango
- To develop skill for canopy & nutrition management practices

### **Course Content**

- Concept of regular bearing in mango
- Principles of Inflorescence management
- Role of hormones in regular bearing
- Method of application of hormones
- Role & practices of canopy management
- Role & practices of nutrition management

### **Resource Persons**

Master trainers in DoA, Crop scientists from SAU/ ARS/ KVK, Progressive farmers

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### **4. Course Code: AKMT-04**

#### **Title: Grading, Packing, Processing & marketing of mango**

- Target group: Mango growers
- Duration: One day
- Month: May to June
- Venue: District Training Center/ SAU / KVK / Mango processing unit

### **Objectives**

- To impart knowledge about grading & packing of Mango fruits
- To develop knowledge and skill in preparation of different products of Mango
- To prepare project for small processing unit
- To facilitate the growers in formation of groups for marketing of mango

### **Course Content**

- Proper harvesting techniques
- Grading of mango fruits
- Ripening technology
- Recipes of byproducts from mango
- Packaging of byproducts
- Establishment of small mango processing unit
- Project preparation

### **Resource Persons**

Master trainers, Mango Scientists from SAU & KVK, Technologists from processing industry & Progressive mango growers

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## **Flower Crops**

### ***1. Course Code: AKFT-01***

#### **Title: Production of Seed & Planting Material of Flower Crops**

- Target group: Floriculture beneficiaries under NHM
- Duration: Two days
- Month: November- December
- Venue: District Training Center/ Agropolyclinic / SAU/ KVK / Progressive farmer's field

#### **Objectives**

- To develop knowledge about greenhouse & polyhouse
- To develop knowledge and skill in diff. methods of flower seed production
- To develop skill in good flower nursery practices for production of planting material

#### **Course Content**

- Preparation of seeding in Green house & Polyhouse
- Preparation in open field
- Selection of flowers
- Self pollination, isolation
- Bed treatment
- Seed treatment
- Fertigation
- Irrigation
- Plant protection
- Grading of planting material

#### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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### ***2. Course Code: AKFT-02***

#### **Title: Protected Cultivation of Flowers**

- Target group: Beneficiaries under NHM
- Duration: Two days
- Month: October to December

- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

### **Objectives**

- To impart knowledge about Green House Technology
- To facilitate the trainees in selection of flower crops to be grown under Green House conditions
- To impart skill for execution of various practices in Green House

### **Course Contents**

- Principles of Green House construction
- Selection of crop & varieties for cultivation in Green House
- Preparation of beds
- Fertigation management
- Plant protection in Green House
- Packaging of floers

### **Resource Persons**

Master trainers from DoA, Experts from Horticulture Training Center- Talegaon, Technologists from SAU/ Private firms

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### **3. Course Code: AKFT-03**

#### **Title: Cultivation Technology for Rose**

- Target group: Floriculture beneficiaries under NHM
- Duration: One day
- Month: August- September
- Venue: District Training Center/ Agropolyclinic / SAU/ KVK / Progressive farmer's field

### **Objectives**

- To impart knowledge about package of practices for cultivation of Rose developed by PDKV, Akola

### **Course Content**

- Scope for production of Rose
- Selection of soil, variety and planting material
- Methods of cultivation
- Nutrition management

- Plant protection
- Irrigation management
- Harvesting & packing

**Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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**4. Course Code: AKFT-04**

**Title: Title: Cutting and Pruning Technology in Rose**

- Target group: Rose cultivators
- Duration: One day
- Month: October- November
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK / Progressive farmer's field

**Objectives**

- To orient trainees about advantages of pruning
  - To develop the skill in pruning Roses & its aftercare
  - To develop skill about debudding, thinning of branches for shaping Roses
- Course Content
- Diff. Types of pruning in Rose
  - Time & method of pruning
  - Scheduling of manures & fertilizers after pruning
  - Irrigation & plant protection after pruning
  - Thinning of branches
  - Debudding
  - Removal of dead branches
  - Proper shape & size of plants

**Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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**5. Course Code: AKFT-05**

**Title: Cultivation of Gladiolus & Tuberose**

- Target group: Floriculture beneficiaries under NHM

- Duration: One day
- Month: September- October
- Venue: District Training Center/ Agropolyclinic / SAU/ KVK / Horticulture nursery

### **Objectives**

- To impart knowledge about package of practices for cultivation of Gladiolus & Tuberose developed by PDKV, Akola

### **Course Content**

- Scope for production of Gladiolus & Tuberose
- Selection of soil, variety and planting material
- Methods of cultivation
- Nutrition management
- Plant protection
- Irrigation management
- Harvesting & packing

### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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## **6. Course Code: AKFT-06**

### **Title: Value Addition in Flowers**

- Target group: Floriculture beneficiaries under NHM
- Duration: One day
- Month: December to February
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK / Processing Unit

### **Objectives**

- To develop knowledge and skill in preparation of diff. value added product of flowers
- To impart knowledge extraction of essence
- To develop skill in trainees about art of Floral arrangements

### **Course Content**

- Preparation of Bouquet, garlands & other products
- Extraction of essence from flowers

- Preparation of Gulkand & Gulabjal
- Floral arrangements (Ekebana)
- Preparation of Floral Medicines

### **Resource Persons**

Master Trainers in DoA, Flower Merchants, Experts in Floral extraction, Food Technologists from SAU/ KVK, Progressive farmers

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## **Special Activities**

### ***1. Course Code: AKCTT-01***

#### **Title: Establishment of Community Tanks**

- Target group: Beneficiaries under NHM
- Duration: One day
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

#### **Objectives**

- To impart knowledge about selection of site for community tanks
- To enable the trainees to prepare estimates of construction of community tank
- To facilitate the trainees in planning for construction of community tank

#### **Course Contents**

- Selection of site
- Design of community tank
- Estimation of earthwork
- Preparation of estimate
- Planning for construction of community tank

### **Resource Persons**

Master trainers from DoA

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### ***2. Course Code: AKGHT-01***

#### **Title: Construction & Management of Green House**

- Target group: Beneficiaries under NHM
- Duration: Two days

- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

### **Objectives**

- To impart knowledge about Green House Technology
- To know various components of Green House construction
- To facilitate the trainees in selection of crops to be grown under Green House conditions
- To impart skill for execution of various practices in Green House

### **Course Contents**

- Principles of Green House construction
- Selection of site for Green House
- Components of Green House
- Selection of crop & varieties for cultivation in Green House
- Preparation of beds
- Fertigation management
- Plant protection in Green House

### **Resource Persons**

Master trainers from DoA, Experts from Horticulture Training Center- Talegaon, Technologists from SAU/ Private firms

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### **3. Course Code: AKPHT-01**

#### **Title: Construction & Management of Pack House**

- Target group: Beneficiaries under NHM
- Duration: One day
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

### **Objectives**

- To impart knowledge about Pack House Technology
- To know various components of Pack House construction
- To impart skill for preparation of project for Pack House

**Course Contents**

- Scope for Pack House construction
- Selection of site for Pack House
- Components of Pack House
- Scheduling of crop & varieties for storage in Pack House
- Preparation of project proposal of Pack house

**Resource Persons**

Master trainers from DoA, Experts from Horticulture Training Center- Talegaon, Technologists from SAU/ Private firms

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# Design of Training Courses Planned

## Buldhana

### Orange

#### 1. Course Code: *BLDOT-01*

#### **Title: Production of Quality Planting Material**

- Target group: Orange growers & Nursery owners(NHM)
- Duration: Three days
- Month: September to December
- Venue: Horticulture nursery/ District Training Center/ Agropolyclinic / KVK / NRC/ SAU Nursery

#### **Objectives**

- To help trainees to know about good quality stock & scion
- To help in gaining knowledge of establishment of primary nursery & secondary nursery
- To develop knowledge skill in solarization of soil
- To impart knowledge about hardening of plants

#### **Course Content**

- Need for quality planting material
- Selection of site for nursery
- Establishment of Mother Block of Stock & scion
- Establishment Of primary nursery (Seed-Seedlings)
- Establishment Of secondary nursery (Budding-Salable)
- Demonstration of solarization
- Use of fungicides
- Hardening of plants
- Green house & Polyhouse
- Management of nursery

#### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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## **2. Course Code: BLDOT-02**

### **Title: Phytophthora Control in Orange**

- Target group: Orange growers
- Duration: Two days
- Month: September - October
- Venue: District Training Center/ Agropolyclinic / KVK /ARS/ NRC/ SAU Farm/  
Progressive Farmers' Orange orchard

### **Objectives**

- To develop understanding about causes & symptoms of Phytophthora disease in Orange
- To develop knowledge & skill in pruning of decayed roots & dried branches
- To develop knowledge & skill in application of Redomil & Bordeaux paste

### **Course Content**

- Symptoms of Phytophthora
- Causes of Phytophthora
- Pruning of shoots
- Digging of Beds
- Pruning of roots
- Drenching with Ridomeal
- Application of neem cake, biopesticide & biofertilizers
- Application of Bordeaux paste
- Drenching of Bordeaux Mixture
- Irrigation methods to prevent Phytophthora

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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## **3.Course Code: BLDOT-03**

### **Title: Establishment of Orange Orchard**

- Target group: Farmers who have registered for Orange plantation
- Duration: One day
- Month: May - June

- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers’  
Orange orchard

### **Objectives**

- To impart knowledge about soil selection for Orange and testing soils
- To impart knowledge and skill about digging & filling of pits
- To impart skill of preparing pot mixture
- To develop skill of actual planting of Orange plants

### **Course Content**

- Site selection
- Soil testing
- Digging & Filling of pits
- Preparation of pot mixture
- Selection of planting material
- Planting
- After care
- Intercropping

## **4. Course Code: BLDOT-04**

### **Title: Rejuvenation of Declined Orchards**

- Target group: Orange growers who have applied for rejuvenation
- Duration: One day
- Month: September to December
- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers’  
Old Orange orchard

### **Objectives**

- To develop knowledge and skill in effective pruning of Orange trees
- To motivate farmers to adopt rejuvenation practices for old gardens

### **Course Content**

- Pruning
- Application of fertilizers
- Plant protection
- Preparation of Bordeaux Paste & use
- Time of pruning

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### **5. Course Code: BLDOT-05**

#### **Title: Integrated Nutrient Management in Orange**

- Target group: Orange growers
- Duration: Two days
- Month: June-July
- Venue: District Training Center/ Agropolyclinic / KVK / ARS/ NRC/ SAU Farm/ Progressive Farmers' Orange orchard

#### **Objectives**

- To impart knowledge & understanding to the trainees about nutrient requirement of Orange
- To impart knowledge & skill about preparation of micronutrients at field level
- To impart skill in use of biofertilizers, Organic matter & fertilizers

#### **Course Content**

- Role of major & micro nutrients in quality fruit production
- Assessment of soil health at field level
- Deficiency Symptoms of major & micronutrients
- Preparation of micronutrients at field level
- Use of Biofertilizers
- Use of liquid/ soluble fertilizers
- Schedule of major and minor elements
- Methods of application

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### **6. Course Code: BLDOT-06**

#### **Title: Management of Irrigation and Drainage in Orange**

- Target group: Orange growers
- Duration: Two days
- Month: August -September

- Venue: District Training Center/ Agropolyclinic / KVK /NRC/ SAU/ Progressive Farmer's Orange orchard

**Objectives**

- To develop understanding about water requirement of Orange at diff. stages
- To develop knowledge skill in water scheduling
- To inculcate in trainees importance of drainage for Orange

**Course Content**

- Different methods of irrigation
- Water requirement of Orange according to crop load, canopy & type of soil
- Scheduling of irrigation
- Testing of water holding capacity
- Permanent wilting point and field capacity
- Diff. Types of drainage systems
- Role of drainage
- Effect of bad drainage on fruit quality & plant health

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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**7.Course Code: BLDOT-07**

**Title: Post Harvest Management & processing in Orange**

- Target group: Orange growers
- Duration: Two days
- Month: December to February
- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers' Orange orchard

**Objectives**

- To develop skill of harvesting, precooling & use of fungicides for fruit treatment
- To impart knowledge about grading & packing of Orange
- To develop knowledge & skill of trainee farmers in preparation of selected byproducts from Orange

**Course Content**

- Harvesting method
- Precooling
- Grading

- Packing
- Use of fungicides for fruit treatment
- Byproducts from Orange Juice
- Marmalade
- Concentrated Juice
- Preservation of slices

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Owner of Processing unit, Progressive Farmers

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## **Mango**

### ***1. Course Code: BLDMT-01***

#### **Title: In situ plantation of Mango**

- Target group: Farmers who have registered for Mango plantation
- Duration: One day
- Month: May & June
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

#### **Objectives**

- To develop knowledge and skill in digging & filling of pits
- To train in selection of stones of mango
- To train in grafting of mango

#### **Course Content**

- Selection of site
- Soil testing
- Layout & spacing
- Digging & Filling of pits
- Preparation of pot mixture
- Selection & Sowing of stones
- Selection of Mother block & varieties of Mango
- Grafting techniques
- After care
- Intercropping

## **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, KVK, Progressive Farmers

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### **2. Course Code: BLDT-02**

#### **Title: Integrated Nutrient Management in Mango**

- Target group: Mango growers
- Duration: One day
- Month: June To August
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

#### **Objectives**

- To develop knowledge about nutrient requirement of mango in pre bearing stage
- To train the farmers about use of biological & chemical fertilizers

#### **Course Content**

- Uptake & requirement of nutrients
- Nutritional management in pre bearing orchard
- Year wise schedule
- Nutrition manage in bearing orchards
- Use of Biofertilizers & chemical fertilizers

## **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, KVK, Progressive Farmers

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### **3. Course Code: BLDMT-03**

#### **Title: Plant protection in Mango**

- Target group: Mango growers
- Duration: One day
- Month: August to October
- Venue: District Training Center/ Agropolyclinic / Horticulture nursery/ Mango grower's orchard

#### **Objectives**

- To develop knowledge about different diseases and pests in Mango
- To develop skill in pruning & use of fungicides for control of pests and diseases

#### **Course Content**

- Concept of Integrated Pest management in Mango
- Pests & Diseases on Mango
- Pruning

- Application of Bordeaux
- Control of Jassids
- Malformation
- Use of Fungicides

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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**4. Course Code: BLDMT-04**

**Title: Technology for Regular Bearing in Mango**

- Target group: Mango growers
- Duration: One day
- Month: July to September
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery / Progressive farmer's orchard

**Objectives**

- To understand the principles of Inflorescence management
- To develop knowledge about use of hormones for regular bearing in mango
- To develop skill for canopy & nutrition management practices

**Course Content**

- Concept of regular bearing in mango
- Principles of Inflorescence management
- Role of hormones in regular bearing
- Method of application of hormones
- Role & practices of canopy management
- Role & practices of nutrition management

**Resource Persons**

Master trainers in DoA, Crop scientists from SAU/ ARS/ KVK, Progressive farmers

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**5. Course Code: BLDMT-05**

**Title: Grading, Packing, Processing & marketing of mango**

- Target group: Mango growers
- Duration: One day

- Month: May to June
- Venue: District Training Center/ SAU / KVK / Mango processing unit

### **Objectives**

- To impart knowledge about grading & packing of Mango fruits
- To develop knowledge and skill in preparation of different products of Mango
- To prepare project for small processing unit
- To facilitate the growers in formation of groups for marketing of mango

### **Course Content**

- Proper harvesting techniques
- Grading of mango fruits
- Ripening technology
- Recipes of byproducts from mango
- Packaging of byproducts
- Establishment of small mango processing unit
- Project preparation

### **Resource Persons**

Master trainers, Mango Scientists from SAU & KVK, Technologists from Processing industry & Progressive mango growers

## **Kagazi Lime**

### ***1. Course Code: BLDKLT-01***

#### **Title: Production of quality planting material**

- Target group: Kagazi Lime growers & Nursery owners (NHM)
- Duration: Three days
- Month: September to December
- Venue: Horticulture nursery/ District Training Center/ Agropolyclinic / KVK / NRC/ SAU Nursery

### **Objectives**

- To help trainees to know about good quality stock & scion
- To help in gaining knowledge of establishment of primary nursery & secondary nursery

- To develop knowledge skill in solarization of soil
- To impart knowledge about hardening of plants

**Course Content**

- Need for quality planting material
  - Selection of site for nursery
  - Establishment of Mother Block of Stock & scion
  - Establishment Of primary nursery (Seed-Seedlings)
  - Establishment Of secondary nursery (Budding-Salable)
  - Demonstration of solarization
  - Use of fungicides
  - Hardening of plants
  - Green house & Polyhouse
  - Management of nursery
- 

**2. Course Code: BLDKLT-02**

**Title: Integrated Nutrient Management in Kagazi Lime**

- Target group: Kagazi Lime growers
- Duration: Two days
- Month: June-July
- Venue: District Training Center/ Agropolyclinic / KVK / ARS/ NRC/ SAU Farm/ Progressive Farmers' Kagazi Lime orchard

**Objectives**

- To impart knowledge & understanding to the trainees about nutrient requirement of Orange
- To impart knowledge & skill about preparation of micronutrients at field level
- To impart skill in use of biofertilizers, Organic matter & fertilizers

**Course Content**

- Role of major & micro nutrients in quality fruit production
- Assessment of soil health at field level
- Deficiency Symptoms of major & micronutrients
- Preparation of micronutrients at field level
- Use of Biofertilizers
- Use of liquid/ soluble fertilizers
- Schedule of major and minor elements
- Methods of application

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### **3. Course Code: BLDKLT-03**

#### **Title: Irrigation management in Kagazi Lime**

- Target group: Kagazi Lime growers
- Duration: Two days
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK /NRC/ SAU/ Progressive Farmers' Kagazi Lime orchard

#### **Objectives**

- To develop understanding about water requirement of Kagazi Lime at different stages
- To develop knowledge skill in micro irrigation
- To inculcate in trainees importance of drainage for Kagazi Lime

#### **Course Content**

- Different methods of irrigation
- Water requirement of Kagazi Lime according to crop load, canopy & type of soil
- Micro irrigation technology
- Installation of Drip Irrigation System
- Different types of drainage systems
- Effect of bad drainage on fruit quality & plant health

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### **4. Course Code: BLDKLT-04**

#### **Title: Grading & packing in Kagazi Lime**

- Target group: Kagazi Lime growers
- Duration: One day
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK /NRC/ SAU/ Progressive Farmers' Kagazi Lime orchard

#### **Objectives**

- To develop knowledge and understanding about quality parameters of fruits before harvesting
- To impart knowledge about grading & packing of Kagazi Lime

**Course Content**

- Identification of maturity of fruits & quality parameters
- Harvesting method
- Grading
- Packing

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU/ NRC

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**Custard Apple**

***1. Course Code: BLDCAT-01***

**Title: Processing of Custard Apple**

- Target group: Custard Apple growers
- Duration: One day
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK / SAU/ Progressive Farmers' Custard Apple orchard

**Objectives**

- To develop skill in extraction of pulp of Custard Apple
- To develop knowledge & skill in preparation of diff. products of Custard Apple pulp

**Course Content**

- Extraction of pulp
- Use of chemicals for preservation of pulp
- Storage of pulp
- Juice of Custard Apple
- Shakes of pulp

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU/ KVK, Owner of Processing unit

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## **2. Course Code: BLDCAT-02**

### **Title: Pruning in Custard Apple**

- Target group: Custard Apple growers
- Duration: One day
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK / SAU/ Progressive Farmers' Custard Apple orchard

#### **Objectives**

- To impart knowledge & skill about different types of pruning & it's time
- To develop knowledge & skill about plant protection, nutrients management after pruning

#### **Course Content**

- Principles of pruning in Custard apple
- Types of pruning
- Pruning Technology
- Plant protection after pruning
- Nutrient management after pruning

#### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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## **Vegetables**

### **1. Course Code: BLDVT-01**

#### **Title: Seed Production in Vegetables**

- Target group: Vegetable growers
- Duration: One day
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK / SAU/ Progressive Farmers' field

#### **Objectives**

- To enable the trainees to select vegetable crops and varieties for seed/ seedling production

- To develop understanding about seed/ seedling production process
- To impart skill for management of seed/ seedling production plots

#### **Course Content**

- Selection of seeds
- Seed treatment
- Preparation of seedling in shed net house and in field
- Package of practices for seed/ seedling production
- Irrigation methods
- Mulching
- Preparation of seedlings of off season vegetables
- Preparation of seedlings of high value vegetables

#### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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### **2. Course Code: BLDVT-02**

#### **Title: Post Harvest management in vegetables**

- Target group: Vegetable growers
- Duration: One day
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK / SAU/ Progressive Farmers' field

#### **Objectives**

- To develop skill in grading, packing of Vegetables for marketing
- To sensitize the trainees about hygiene maintenance after harvest of vegetables

#### **Course Content**

- Maturity signs
- Cleaning of vegetables
- Methods of storage of vegetables
- Moisture at storage stage
- Hormone sprays to increase shelf life
- Use of Kanda Chal for Onion storage

- Packaging of vegetables for different markets

#### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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### **Special Activities**

#### ***1. Course Code: BLDCTT-01***

#### **Title: Establishment of Community Tanks**

- Target group: Beneficiaries under NHM
- Duration: One day
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

#### **Objectives**

- To impart knowledge about selection of site for community tanks
- To enable the trainees to prepare estimates of construction of community tank
- To facilitate the trainees in planning for construction of community tank

#### **Course Contents**

- Selection of site
- Design of community tank
- Estimation of earthwork
- Preparation of estimate
- Planning for construction of community tank

#### **Resource Persons**

Master trainers from DoA

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#### ***2. Course Code: BLDGHT-01***

#### **Title: Construction & Management of Green House**

- Target group: Beneficiaries under NHM
- Duration: Two days
- Month: October to December

- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

### **Objectives**

- To impart knowledge about Green House Technology
- To know various components of Green House construction
- To facilitate the trainees in selection of crops to be grown under Green House conditions
- To impart skill for execution of various practices in Green House

### **Course Contents**

- Principles of Green House construction
- Selection of site for Green House
- Components of Green House
- Selection of crop & varieties for cultivation in Green House
- Preparation of beds
- Fertigation management
- Plant protection in Green House

### **Resource Persons**

Master trainers from DoA, Experts from Horticulture Training Center- Talegaon, Technologists from SAU/ Private firms

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### **3. Course Code: BLDPHT-01**

#### **Title: Construction & Management of Pack House**

- Target group: Beneficiaries under NHM
- Duration: One day
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

### **Objectives**

- To impart knowledge about Pack House Technology
- To know various components of Pack House construction
- To impart skill for preparation of project for Pack House

### **Course Contents**

- Scope for Pack House construction

- Selection of site for Pack House
- Components of Pack House
- Scheduling of crop & varieties for storage in Pack House
- Preparation of project proposal of Pack house

**Resource Persons**

Master trainers from DoA, Experts from Horticulture Training Center- Talegaon,  
Technologists from SAU/ Private firms

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# Design of Training Courses Planned

## Yavatmal

### Orange

#### *1. Course Code: YAVOT-01*

#### **Title: Production of Quality Planting Material**

- Target group: Orange growers & Nursery owners (NHM)
- Duration: Three days
- Month: September to December
- Venue: Horticulture nursery/ District Training Center/ Agropolyclinic / KVK / NRC/ SAU Nursery

#### **Objectives**

- To help trainees to know about good quality stock & scion
- To help in gaining knowledge of establishment of primary nursery & secondary nursery
- To develop knowledge skill in solarization of soil
- To impart knowledge about hardening of plants

#### **Course Content**

- Need for quality planting material
- Selection of site for nursery
- Establishment of Mother Block of Stock & scion
- Establishment Of primary nursery (Seed-Seedlings)
- Establishment Of secondary nursery (Budding-Salable)
- Demonstration of solarization
- Use of fungicides
- Hardening of plants
- Green house & Polyhouse
- Management of nursery

#### **Resource Persons**

Master trainers from DoA, Horticulture Officers, Scientists from SAU/ NRC/ KVK

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## **2. Course Code: YAVOT-02**

### **Title: Phytophthora Control in Orange**

- Target group: Orange growers
- Duration: Two days
- Month: September - October
- Venue: District Training Center/ Agropolyclinic / KVK /ARS/ NRC/ SAU Farm/ Progressive Farmers' Orange orchard

### **Objectives**

- To develop understanding about causes & symptoms of Phytophthora disease in Orange
- To develop knowledge & skill in pruning of decayed roots & dried branches
- To develop knowledge & skill in application of Redomil & Bordeaux paste

### **Course Content**

- Symptoms of Phytophthora
- Causes of Phytophthora
- Pruning of shoots
- Digging of Beds
- Pruning of roots
- Drenching with Ridomeal
- Application of neem cake, biopesticide & biofertilizers
- Application of Bordeaux paste
- Drenching of Bordeaux Mixture
- Irrigation methods to prevent Phytophthora

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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## **3.Course Code: YAVOT-03**

### **Title: Establishment of Orange Orchard**

- Target group: Farmers who have registered for Orange plantation
- Duration: One day
- Month: May - June
- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers' Orange orchard

**Objectives**

- To impart knowledge about soil selection for Orange and testing soils
- To impart knowledge and skill about digging & filling of pits
- To impart skill of preparing pot mixture
- To develop skill of actual planting of Orange plants

**Course Content**

- Site selection
- Soil testing
- Digging & Filling of pits
- Preparation of pot mixture
- Selection of planting material
- Planting
- After care
  
- Intercropping

**Resource Persons**

Master trainers from DoA, Horticulture Officers, Scientists from SAU/ NRC/ KVK

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**4. Course Code: YAVOT-04****Title: Rejuvenation of Declined Orchards**

- Target group: Orange growers who have applied for rejuvenation
- Duration: One day
- Month: September to December
- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers' Old Orange orchard

**Objectives**

- To develop knowledge and skill in effective pruning of Orange trees
- To motivate farmers to adopt rejuvenation practices for old gardens

**Course Content**

- Pruning
- Application of fertilizers
- Plant protection
- Preparation of Bordeaux Paste & use

- Time of pruning

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### **5. Course Code: YAVOT-05**

#### **Title: Management of Irrigation and Drainage in Orange**

- Target group: Orange growers
- Duration: Two days
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK /NRC/ SAU/ Progressive Farmer's Orange orchard

#### **Objectives**

- To develop understanding about water requirement of Orange at diff. stages
- To develop knowledge skill in water scheduling
- To inculcate in trainees importance of drainage for Orange

#### **Course Content**

- Different methods of irrigation
- Water requirement of Orange according to crop load, canopy & type of soil
- Scheduling of irrigation
- Testing of water holding capacity
- Permanent wilting point and field capacity
- Diff. Types of drainage systems
- Role of drainage
- Effect of bad drainage on fruit quality & plant health

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### **6. Course Code: YAVOT-06**

#### **Title: Integrated Nutrient Management in Orange**

- Target group: Orange growers
- Duration: Two days
- Month: June-July

- Venue: District Training Center/ Agropolyclinic / KVK / ARS/ NRC/ SAU Farm/ Progressive Farmers' Orange orchard

### **Objectives**

- To impart knowledge & understanding to the trainees about nutrient requirement of Orange
- To impart knowledge & skill about preparation of micronutrients at field level
- To impart skill in use of biofertilizers, Organic matter & fertilizers

### **Course Content**

- Role of major & micro nutrients in quality fruit production
- Assessment of soil health at field level
- Deficiency Symptoms of major & micronutrients
- Preparation of micronutrients at field level
- Use of Biofertilizers
- Use of liquid/ soluble fertilizers
- Schedule of major and minor elements
- Methods of application

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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## **Aonla**

### ***1. Course Code: YAVAT-01***

#### **Title: Production of quality Aonla grafts**

- Target group: Farmers registered for Aonla cultivation / Nursery owners
- Duration: One day
- Month: November- December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK /

### **Objectives**

- To develop knowledge about selection stock and scion for Aonla
- To develop skill in grafting and budding in Aonla

### **Course Content**

- Selection of stock and scion for Graft preparations
- Method Grafting or budding
- Selection of variety
- Time of Grafting
- Preparation of potting mixture
- Maintenance of grafts

### **Resource Persons**

Master Trainers in DoA, Horticulture Officers, Crop Scientists from SAU/ KVK

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## **2. Course Code: YAVAT-02**

### **Title: Anola processing & marketing**

- Target group: Farmers registered for Anola cultivation / Nursery owners
- Duration: One day
- Month: November- December
- Venue: District Training Center/ Agropolyclinic / SAU/ KVK / Anola Processing Unit

### **Objectives**

- To develop knowledge & skill in preparation of Anola byproducts
- To motivate trainees for establishment of Anola growers associations
- To impart knowledge about linkages with industry for marketing of Anola & it's products

### **Course Content**

- Preparation of byproducts Supari, Jelly, Candy, Juice, Beverages
- Organisation of Anola Growers Association
- Contract farming in Anola
- Linkages with Buyers of Anola as Pharmaceutical co. & others

### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK/ Owner of processing unit

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## **Flower Crops**

### ***1. Course Code: YAVFT-01***

#### **Title: Production of Seed & Planting Material of Flower Crops**

- Target group: Floriculture beneficiaries under NHM
- Duration: Two days
- Month: November- December
- Venue: District Training Center/ Agropolyclinic / SAU/ KVK / Progressive farmer's field

#### **Objectives**

- To develop knowledge about greenhouse & polyhouse
- To develop knowledge and skill in diff. methods of flower seed production
- To develop skill in good flower nursery practices for production of planting material

#### **Course Content**

- Preparation of seeding in Green house & Polyhouse
- Preparation in open field
- Selection of flowers
- Self pollination, isolation
- Bed treatment
- Seed treatment
- Fertigation
- Irrigation
- Plant protection
- Grading of planting material

#### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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### ***2. Course Code: YAVFT-02***

#### **Title: Protected Cultivation of Flowers**

- Target group: Beneficiaries under NHM
- Duration: Two days
- Month: October to December

- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

### **Objectives**

- To impart knowledge about Green House Technology
- To facilitate the trainees in selection of flower crops to be grown under Green House conditions
- To impart skill for execution of various practices in Green House

### **Course Contents**

- Principles of Green House construction
- Selection of crop & varieties for cultivation in Green House
- Preparation of beds
- Fertigation management
- Plant protection in Green House
- Packaging of floers

### **Resource Persons**

Master trainers from DoA, Experts from Horticulture Training Center- Talegaon, Technologists from SAU/ Private firms

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## **Special Activities**

### ***1. Course Code: YAVCTT-01***

#### **Title: Establishment of Community Tanks**

- Target group: Beneficiaries under NHM
- Duration: One day
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

### **Objectives**

- To impart knowledge about selection of site for community tanks
- To enable the trainees to prepare estimates of construction of community tank
- To facilitate the trainees in planning for construction of community tank

### **Course Contents**

- Selection of site
- Design of community tank
- Estimation of earthwork
- Preparation of estimate
- Planning for construction of community tank

### **Resource Persons**

Master trainers from DoA

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## ***2. Course Code: YAVGHT-01***

### **Title: Construction & Management of Green House**

- Target group: Beneficiaries under NHM
- Duration: Two days
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

### **Objectives**

- To impart knowledge about Green House Technology
- To know various components of Green House construction
- To facilitate the trainees in selection of crops to be grown under Green House conditions
- To impart skill for execution of various practices in Green House

### **Course Contents**

- Principles of Green House construction
- Selection of site for Green House
- Components of Green House
- Selection of crop & varieties for cultivation in Green House
- Preparation of beds
- Fertigation management
- Plant protection in Green House

### **Resource Persons**

Master trainers from DoA, Experts from Horticulture Training Center- Talegaon, Technologists from SAU/ Private firms

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### **3. Course Code: YAVPHT-01**

#### **Title: Construction & Management of Pack House**

- Target group: Beneficiaries under NHM
- Duration: One day
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

#### **Objectives**

- To impart knowledge about Pack House Technology
- To know various components of Pack House construction
- To impart skill for preparation of project for Pack House

#### **Course Contents**

- Scope for Pack House construction
- Selection of site for Pack House
- Components of Pack House
- Scheduling of crop & varieties for storage in Pack House
- Preparation of project proposal of Pack house

#### **Resource Persons**

Master trainers from DoA, Experts from Horticulture Training Center- Talegaon, Technologists from SAU/ Private firms

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# Design of Training Courses Planned

## Washim

### *1. Course Code: WASOT-01*

#### **Title: Production of Quality Planting Material**

- Target group: Orange growers & Nursery owners (NHM)
- Duration: Three days
- Month: September to December
- Venue: Horticulture nursery/ District Training Center/ Agropolyclinic / KVK / NRC/ SAU Nursery

#### **Objectives**

- To help trainees to know about good quality stock & scion
- To help in gaining knowledge of establishment of primary nursery & secondary nursery
- To develop knowledge skill in solarization of soil
- To impart knowledge about hardening of plants

#### **Course Content**

- Need for quality planting material
- Selection of site for nursery
- Establishment of Mother Block of Stock & scion
- Establishment Of primary nursery (Seed-Seedlings)
- Establishment Of secondary nursery (Budding-Salable)
- Demonstration of solarization
- Use of fungicides
- Hardening of plants
- Green house & Polyhouse
- Management of nursery

#### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK,  
Progressive Farmers

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## **2. Course Code: WASOT-02**

### **Title: Phytophthora Control in Orange**

- Target group: Orange growers
- Duration: Two days
- Month: September - October
- Venue: District Training Center/ Agropolyclinic / KVK /ARS/ NRC/ SAU Farm/ Progressive Farmers' Orange orchard

### **Objectives**

- To develop understanding about causes & symptoms of Phytophthora disease in Orange
- To develop knowledge & skill in pruning of decayed roots & dried branches
- To develop knowledge & skill in application of Redomil & Bordeaux paste

### **Course Content**

- Symptoms of Phytophthora
- Causes of Phytophthora
- Pruning of shoots
- Digging of Beds
- Pruning of roots
- Drenching with Ridomeal
- Application of neem cake, biopesticide & biofertilizers
- Application of Bordeaux paste
- Drenching of Bordeaux Mixture
- Irrigation methods to prevent Phytophthora

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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## **3.Course Code: WASOT-03**

### **Title: Establishment of Orange Orchard**

- Target group: Farmers who have registered for Orange plantation
- Duration: One day
- Month: May - June

- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers' Orange orchard

### **Objectives**

- To impart knowledge about soil selection for Orange and testing soils
- To impart knowledge and skill about digging & filling of pits
- To impart skill of preparing pot mixture
- To develop skill of actual planting of Orange plants

### **Course Content**

- Site selection
- Soil testing
- Digging & Filling of pits
- Preparation of pot mixture
- Selection of planting material
- Planting
- After care
- Intercropping

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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## **4. Course Code: WASOT-04**

### **Title: Rejuvenation of Declined Orchards**

- Target group: Orange growers who have applied for rejuvenation
- Duration: One day
- Month: September to December
- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers' Old Orange orchard

### **Objectives**

- To develop knowledge and skill in effective pruning of Orange trees
- To motivate farmers to adopt rejuvenation practices for old gardens

### **Course Content**

- Pruning
- Application of fertilizers

- Plant protection
- Preparation of Bordeaux Paste & use
- Time of pruning

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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**5. Course Code: WASOT-05**

**Title: Management of Irrigation and Drainage in Orange**

- Target group: Orange growers
- Duration: Two days
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK /NRC/ SAU/ Progressive Farmers' Orange orchard

**Objectives**

- To develop understanding about water requirement of Orange at diff. stages
- To develop knowledge skill in water scheduling
- To inculcate in trainees importance of drainage for Orange

**Course Content**

- Different methods of irrigation
- Water requirement of Orange according to crop load, canopy & type of soil
- Scheduling of irrigation
- Testing of water holding capacity
- Permanent wilting point and field capacity
- Diff. Types of drainage systems
- Role of drainage
- Effect of bad drainage on fruit quality & plant health

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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**6. Course Code: WASOT-06**

**Title: Integrated Nutrient Management in Orange**

- Target group: Orange growers
- Duration: Two days
- Month: June-July
- Venue: District Training Center/ Agropolyclinic / KVK / ARS/ NRC/ SAU Farm/ Progressive Farmers' Orange orchard

### **Objectives**

- To impart knowledge & understanding to the trainees about nutrient requirement of Orange
- To impart knowledge & skill about preparation of micronutrients at field level
- To impart skill in use of biofertilizers, Organic matter & fertilizers

### **Course Content**

- Role of major & micro nutrients in quality fruit production
- Assessment of soil health at field level
- Deficiency Symptoms of major & micronutrients
- Preparation of micronutrients at field level
- Use of Biofertilizers
- Use of liquid/ soluble fertilizers
- Schedule of major and minor elements
- Methods of application

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### ***7.Course Code: WASOT-07***

#### **Title: Post Harvest Management & processing in Orange**

- Target group: Orange growers
- Duration: Two days
- Month: December to February
- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers' Orange orchard

### **Objectives**

- To develop skill of harvesting, precooling & use of fungicides for fruit treatment
- To impart knowledge about grading & packing of Orange

- To develop knowledge & skill of trainee farmers in preparation of selected byproducts from Orange

### **Course Content**

- Harvesting method
- Precooling
- Grading
- Packing
- Use of fungicides for fruit treatment
- Byproducts from Orange Juice
- Marmalade
- Concentrated Juice
- Preservation of slices

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Owner of Processing unit, Progressive Farmers

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## **Vegetables**

### ***1. Course Code: WASVT-01***

#### **Title: Seed Production in Vegetables**

- Target group: Vegetable growers
- Duration: One day
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK / SAU/ Progressive Farmers' field

#### **Objectives**

- To enable the trainees to select vegetable crops and varieties for seed/ seedling production
- To develop understanding about seed/ seedling production process
- To impart skill for management of seed/ seedling production plots

#### **Course Content**

- Selection of seeds

- Seed treatment
- Preparation of seedling in shed net house and in field
- Package of practices for seed/ seedling production
- Irrigation methods
- Mulching
- Preparation of seedlings of off season vegetables
- Preparation of seedlings of high value vegetables

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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## **2. Course Code: WASVT-02**

### **Title: Protected Cultivation of Vegetables**

- Target group: Beneficiaries under NHM
- Duration: Two days
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

### **Objectives**

- To impart knowledge about Green House Technology
- To facilitate the trainees in selection of vegetable crops to be grown under Green House conditions
- To impart skill for execution of various practices in Green House

### **Course Contents**

- Principles of Green House construction
- Selection of crop & varieties for cultivation in Green House
- Preparation of beds
- Fertigation management
- Plant protection in Green House
- Packaging of vegetables

**Resource Persons**

Master trainers from DoA, Experts from Horticulture Training Center- Talegaon, Technologists from SAU/ Private firms

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**Flower Crops*****1. Course Code: WASFT-01*****Title: Production of Seed & Planting Material of Flower Crops**

- Target group: Floriculture beneficiaries under NHM
- Duration: Two days
- Month: November- December
- Venue: District Training Center/ Agropolyclinic / SAU/ KVK / Progressive farmer's field

**Objectives**

- To develop knowledge about greenhouse & polyhouse
- To develop knowledge and skill in diff. methods of flower seed production
- To develop skill in good flower nursery practices for production of planting material

**Course Content**

- Preparation of seeding in Green house & Polyhouse
- Preparation in open field
- Selection of flowers
- Self pollination, isolation
- Bed treatment
- Seed treatment
- Fertigation
- Irrigation
- Plant protection
- Grading of planting material

**Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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## **2. Course Code: WASFT-02**

### **Title: Protected Cultivation of Flowers**

- Target group: Beneficiaries under NHM
- Duration: Two days
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

### **Objectives**

- To impart knowledge about Green House Technology
- To facilitate the trainees in selection of flower crops to be grown under Green House conditions
- To impart skill for execution of various practices in Green House

### **Course Contents**

- Principles of Green House construction
- Selection of crop & varieties for cultivation in Green House
- Preparation of beds
- Fertigation management
- Plant protection in Green House
- Packaging of flowers

### **Resource Persons**

Master trainers from DoA, Experts from Horticulture Training Center- Talegaon, Technologists from SAU/ Private firms

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## **Special Activities**

### **1. Course Code: WASCTT-01**

### **Title: Establishment of Community Tanks**

- Target group: Beneficiaries under NHM
- Duration: One day
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

### **Objectives**

- To impart knowledge about selection of site for community tanks
- To enable the trainees to prepare estimates of construction of community tank
- To facilitate the trainees in planning for construction of community tank

**Course Contents**

- Selection of site
- Design of community tank
- Estimation of earthwork
- Preparation of estimate
- Planning for construction of community tank

**Resource Persons**

Master trainers from DoA

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**2. Course Code: WASGHT-01**

**Title: Construction & Management of Green House**

- Target group: Beneficiaries under NHM
- Duration: Two days
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

**Objectives**

- To impart knowledge about Green House Technology
- To know various components of Green House construction
- To facilitate the trainees in selection of crops to be grown under Green House conditions
- To impart skill for execution of various practices in Green House

**Course Contents**

- Principles of Green House construction
- Selection of site for Green House
- Components of Green House
- Selection of crop & varieties for cultivation in Green House
- Preparation of beds
- Fertigation management
- Plant protection in Green House

**Resource Persons**

Master trainers from DoA, Experts from Horticulture Training Center- Talegaon, Technologists from SAU/ Private firms

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**3. Course Code: WASPHT-01****Title: Construction & Management of Pack House**

- Target group: Beneficiaries under NHM
- Duration: One day
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

**Objectives**

- To impart knowledge about Pack House Technology
- To know various components of Pack House construction
- To impart skill for preparation of project for Pack House

**Course Contents**

- Scope for Pack House construction
- Selection of site for Pack House
- Components of Pack House
- Scheduling of crop & varieties for storage in Pack House
- Preparation of project proposal of Pack house

**Resource Persons**

Master trainers from DoA, Experts from Horticulture Training Center- Talegaon, Technologists from SAU/ Private firms

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# Design of Training Courses Planned

## Nagpur

### Orange

#### ***1. Course Code: NGPOT-01***

##### **Title: Phytophthora Control in Orange**

- Target group: Orange growers
- Duration: Two days
- Month: September - October
- Venue: District Training Center/ Agropolyclinic / KVK /ARS/ NRC/ SAU Farm/ Progressive Farmer's Orange orchard

##### **Objectives**

- To develop understanding about causes & symptoms of Phytophthora disease in Orange
- To develop knowledge & skill in pruning of decayed roots & dried branches
- To develop knowledge & skill in application of Redomil & Bordeaux paste

##### **Course Content**

- Symptoms of Phytophthora
- Causes of Phytophthora
- Pruning of shoots
- Digging of Beds
- Pruning of roots
- Drenching with Ridomeal
- Application of neem cake, biopesticide & biofertilizers
- Application of Bordeaux paste
- Drenching of Bordeaux Mixture
- Irrigation methods to prevent Phytophthora

##### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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#### ***2. Course Code: NGPOT -02***

##### **Title: Integrated Nutrient Management in Orange**

- Target group: Orange growers
- Duration: Two days

- Month: June-July
- Venue: District Training Center/ Agropolyclinic / KVK / ARS/ NRC/ SAU Farm/ Progressive Farmers' Orange orchard

### **Objectives**

- To impart knowledge & understanding to the trainees about nutrient requirement of Orange
- To impart knowledge & skill about preparation of micronutrients at field level
- To impart skill in use of biofertilizers, Organic matter & fertilizers

### **Course Content**

- Role of major & micro nutrients in quality fruit production
- Assessment of soil health at field level
- Deficiency Symptoms of major & micronutrients
- Preparation of micronutrients at field level
- Use of Biofertilizers
- Use of liquid/ soluble fertilizers
- Schedule of major and minor elements
- Methods of application

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### **3. Course Code: NGPOT -03**

#### **Title: Production of Disease Free Planting Material**

- Target group: Orange growers & Nursery owners (NHM)
- Duration: Three days
- Month: September to December
- Venue: Horticulture nursery/ District Training Center/ Agropolyclinic / KVK / NRC/ SAU Nursery

### **Objectives**

- To help trainees to know about good quality stock & scion
- To help in gaining knowledge of establishment of primary nursery & secondary nursery
- To develop knowledge skill in solarization of soil

- To impart knowledge about hardening of plants

#### **Course Content**

- Need for quality planting material
- Selection of site for nursery
- Establishment of Mother Block of Stock & scion
- Establishment Of primary nursery (Seed-Seedlings)
- Establishment Of secondary nursery (Budding-Salable)
- Demonstration of solarization
- Use of fungicides
- Hardening of plants
- Green house & Polyhouse
- Management of nursery

#### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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#### **4. Course Code: NGPOT-04**

##### **Title: Management of Irrigation and Drainage in Orange**

- Target group: Orange growers
- Duration: Two days
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK /NRC/ SAU/ Progressive Farmer's Orange orchard

##### **Objectives**

- To develop understanding about water requirement of Orange at diff. stages
- To develop knowledge skill in water scheduling
- To inculcate in trainees importance of drainage for Orange

##### **Course Content**

- Different methods of irrigation
- Water requirement of Orange according to crop load, canopy & type of soil
- Scheduling of irrigation
- Testing of water holding capacity
- Permanent wilting point and field capacity
- Diff. Types of drainage systems

- Role of drainage
- Effect of bad drainage on fruit quality & plant health

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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## **5. Course Code: NGPOT-05**

### **Title: Establishment of Orange Orchard**

- Target group: Farmers who have registered for Orange plantation
- Duration: One day
- Month: May - June
- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers' Orange orchard

### **Objectives**

- To impart knowledge about soil selection for Orange and testing soils
- To impart knowledge and skill about digging & filling of pits
- To impart skill of preparing pot mixture
- To develop skill of actual planting of Orange plants

### **Course Content**

- Site selection
- Soil testing
- Digging & Filling of pits
- Preparation of pot mixture
- Selection of planting material
- Planting
- After care
- Intercropping

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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## **6. Course Code: NGPOT-06**

### **Title: Rejuvenation of Declined Orchards**

- Target group: Orange growers who have applied for rejuvenation

- Duration: One day
- Month: September to December
- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers'  
Old Orange orchard

**Objectives**

- To develop knowledge and skill in effective pruning of Orange trees
- To motivate farmers to adopt rejuvenation practices for old gardens

**Course Content**

- Pruning
- Application of fertilizers
- Plant protection
- Preparation of Bordeaux Paste & use
- Time of pruning

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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**7. Course Code: NGPOT-07**

**Title: Pre and Post Harvest care of Orange**

- Target group: Orange growers
- Duration: One day
- Month: December to February
- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers'  
Orange orchard

**Objectives**

- To develop knowledge and understanding about quality parameters of fruits before harvesting
- To develop skill of harvesting, precooling & use of fungicides for fruit treatment

**Course Content**

- Identification of maturity of fruits & quality parameters
- TSS /Acidity /Acid Sugar ratio /Juice % /Skin thickness /Colour
- Harvesting method
- Precooling
- Grading
- Packing

- Use of fungicides for fruit treatment

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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## **8. Course Code: NGPOT-08**

### **Title: Bahar and Fruit Management in Orange**

- Target group: Orange growers
- Duration: Two days
- Month: September- October
- Venue: District Training Center/ Agropolyclinic / KVK / NRC/ SAU/ Progressive Farmers' Orange orchard

### **Objectives**

- To impart knowledge about growth hormones & retardants
- To develop skill in use of growth regulators & micronutrients
- To develop skill in noting the stress
- To develop knowledge and skill in induction of Hast & Ambia Bahar in Orange

### **Course Content**

- Induction of Ambia Bahar
- Role of Bahar treatment
- Role of Growth Hormones & retardants
- Control of Fruit drop
- Use of growth regulators & micronutrients for quality improvement
- Mulching for fruit drop control
- Induction of Mrig Bahar
- Identification of water stress
- Use of growth retardants in case of untimely rains
- Control of fruit cracking & fruit drop
- Improvement of drainage
- Favorable climatic conditions for Mrig Bahar

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### **9. Course Code: NGPOT-09**

#### **Title: Value addition & Marketing of Orange**

- Target group: Orange growers & agri- entrepreneurs (NHM)
- Duration: Two days
- Month: March-April
- Venue: District Training Center/ Agropolyclinic / KVK /Orange Processing Unit

#### **Objectives**

- To develop knowledge & skill of trainee farmers in preparation of selected byproducts from Orange
- To develop knowledge about use of Orange in cosmetics, animal feed, peel oil & winery
- To motivate farmers to establishment Orange Growers Marketing & processing groups in rural area

#### **Course Content**

- Byproducts from Orange Juice
- Marmalade
- Concentrated Juice
- Preservation of slices
- Use of orange in cosmetics
- Extraction of peel oil
- Preparation of Wine from Orange
- Establishment of Orange Growers' & Marketing Associations
- Formation of Processing & Marketing interest groups

#### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### **10. Course Code: NGPOT-10**

#### **Title: Training, Pruning & Canopy Management**

- Target group: Orange growers
- Duration: One day
- Month: June- July

- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers’ Orange orchard

**Objectives**

- To acquaint trainees to importance of training & pruning
- To develop knowledge and skill in training & pruning

**Course Content**

- Removal of site shoots on stock & scion in pre bearing orchard
- Proper training
- Thinning of branches
- Removal of water shoots

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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**11. Course Code: NGPOT-11**

**Title: Good Agriculture Practices in Orange**

- Target group: Orange growers
- Duration: One day
- Month: September to December
- Venue: District Training Center/ Agropolyclinic / KVK /NRC/ SAU/ Progressive Farmers’ Orange orchard

**Objectives**

- To develop knowledge of farmers about the GAP in Orange about cultivation, production & preharvest management

**Course Content**

- Principles of Good Agriculture Practices
- Requirements of GAP in Orange
- Export standards for Fresh Orange fruits
- GAP related to production of Orange
- GAP related to post harvest management of Orange

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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## ***12. Course Code: NGPOT-12***

### **Title: Organic Cultivation of Oranges**

- Target group: Orange growers
- Duration: Two days
- Month: September to December
- Venue: District Training Center/ Agropolyclinic

#### **Objectives**

- To acquaint the farmers to certification of objectives of farming
- To develop knowledge & skill in production & use of Biofertilizers

#### **Course Content**

- Certification of organic farming
- Use of Biofertilizers
- Preparation of Biofertilizers
- Vermicompost unit establishment
- Preparation & use of Biopesticides (Saptarni)
- Mulching

#### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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## **Mango**

### ***1. Course Code: NGPMT-01***

#### **Title: In situ plantation of Mango**

- Target group: Farmers who have registered for Mango plantation
- Duration: One day
- Month: May & June
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

#### **Objectives**

- To develop knowledge and skill in digging & filling of pits
- To train in selection of stones of mango
- To train in grafting of mango

#### **Course Content**

- Selection of site

- Soil testing
- Layout & spacing
- Digging & Filling of pits
- Preparation of pot mixture
- Selection & Sowing of stones
- Selection of Mother block & varieties of Mango
- Grafting techniques
- After care
- Intercropping

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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**2. Course Code: NGPMT-02**

**Title: Plant protection in Mango**

- Target group: Mango growers
- Duration: One day
- Month: August to October
- Venue: District Training Center/ Agropolyclinic / Horticulture nursery/ Mango grower's orchard

**Objectives**

- To develop knowledge about different diseases and pests in Mango
- To develop skill in pruning & use of fungicides for control of pests and diseases

**Course Content**

- Concept of Integrated Pest management in Mango
- Pests & Diseases on Mango
- Pruning
- Application of Bordeaux
- Control of Jassids
- Malformation
- Use of Fungicides

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### **3. Course Code: NGPMT-03**

#### **Title: Integrated Nutrient Management in Mango**

- Target group: Farmers who have registered for Mango plantation
- Duration: One day
- Month: May & June
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

#### **Objectives**

- To develop knowledge about nutrient requirement of mango in pre bearing stage
- To train the farmers about use of biological & chemical fertilizers

#### **Course Content**

- Uptake & requirement of nutrients
- Nutritional management in pre bearing orchard
- Year wise schedule
- Nutrition manage in bearing orchards
- Use of Biofertilizers & chemical fertilizers

#### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### **4. Course Code: NGPMT-04**

#### **Title: Irrigation management in Mango**

- Target group: Farmers who have registered for Mango plantation
- Duration: One day
- Month: May & June
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

#### **Objectives**

- To develop knowledge about the importance of irrigation for Mango
- To know and apply different methods of irrigation in Mango

#### **Course Content**

- Water requirement of Mango
- Scheduling of Irrigation
- Methods of irrigation

- Micro irrigation Techniques
- Mulching

#### **Resource Persons**

Master trainers, Horticulture officers and Mango Scientists from SAU & KVK, Progressive mango growers

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#### **5. Course Code: NGPMT-05**

##### **Title: Post Harvest Management of Mango Fruits**

- Target group: Mango growers
- Duration: One day
- Month: May & June
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

##### **Objectives**

- To develop understanding & skill in harvesting Mango
- To develop knowledge skill in fungicidal treatment of fruits
- To impart knowledge about packing of Mango fruits

##### **Course Content**

- Proper harvesting techniques
- Use of harvester
- Precooling
- Treatment of fungicides
- Grading of mango fruits
- Ripening technology
- Packing technology

#### **Resource Persons**

Master trainers, Horticulture officers and Mango Scientists from SAU & KVK, Progressive mango growers

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#### **6. Course Code: NGPMT-06**

##### **Title: Value Addition & Processing of Mango fruits**

- Target group: Mango growers
- Duration: Two day

- Month: May to June
- Venue: District Training Center/ SAU / KVK / Mango processing unit

### **Objectives**

- To develop knowledge and skill in preparation of different products of Mango
- To prepare project for small processing unit

### **Course Content**

- Principles of preservation
- Processing of raw mango fruits
- Processing of ripe fruits
- Recipes of byproducts from mango
- Packaging of byproducts
- Establishment of small mango processing unit
- Project preparation

### **Resource Persons**

Master trainers, Mango Scientists from SAU & KVK, Technologists from processing industry & Progressive mango growers

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## **Sweet Orange**

### ***1. Course Code: NGPSOT-01***

#### **Title: Establishment of Sweet Orange Orchard**

- Target group: Farmers who have registered for Sweet Orange plantation
- Duration: One day
- Month: May to June
- Venue: District Training Center/ Agropolyclinic/ SAU / ARS/ NRC/ KVK

### **Objectives**

- To impart knowledge about soil selection for Sweet Orange
- To impart knowledge and skill about digging & filling of pits
- To impart skill of selection of good planting material
- To develop skill of proper planting of Sweet Orange grafts

### **Course Content**

- Site selection
- Soil testing
- Filling of pits
- Preparation of pot mixture
- Selection of planting material
- Planting
- After care
- Intercropping

### **Resource Persons**

Master trainers, Mango Scientists from SAU & KVK & Progressive Sweet Orange growers

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## **2. Course Code: NGPSOT-02**

### **Title: Integrated Nutrient Management in Sweet Orange**

- Target group: Sweet Orange growers
- Duration: Two days
- Month: June-July
- Venue: District Training Center/ Agropolyclinic / KVK / ARS/ NRC/ SAU Farm/ Progressive Farmers' Sweet Orange orchard

### **Objectives**

- To impart knowledge & understanding to the trainees about nutrient requirement of Sweet Orange
- To impart knowledge & skill about preparation of micronutrients at field level
- To impart skill in use of biofertilizers, Organic matter & fertilizers

### **Course Content**

- Role of major & micro nutrients in quality fruit production
- Assessment of soil health at field level
- Deficiency Symptoms of major & micronutrients
- Preparation of micronutrients at field level
- Use of Biofertilizers
- Use of liquid/ soluble fertilizers

- Schedule of major and minor elements
- Methods of application

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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**3. Course Code: NGPSOT-03**

**Title: Production of Disease Free Planting Material**

- Target group: Sweet Orange growers & Nursery owners(NHM)
- Duration: Three days
- Month: September to December
- Venue: Horticulture nursery/ District Training Center/ Agropolyclinic / KVK / NRC/ SAU Nursery

**Objectives**

- To help trainees to know about good quality stock & scion
- To help in gaining knowledge of establishment of primary nursery & secondary nursery
- To develop knowledge skill in solarization of soil
- To impart knowledge about hardening of plants

**Course Content**

- Need for quality planting material
- Selection of site for nursery
- Establishment of Mother Block of Stock & scion
- Establishment Of primary nursery (Seed-Seedlings)
- Establishment Of secondary nursery (Budding-Salable)
- Demonstration of solarization
- Use of fungicides
- Hardening of plants
- Green house & Polyhouse
- Management of nursery

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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#### ***4. Course Code: NGPSOT-12***

##### **Title: Training & Pruning in Sweet Orange**

- Target group: Sweet Orange growers
- Duration: One day
- Month: June- July
- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers' Sweet Orange orchard

##### **Objectives**

- To acquaint trainees to importance of training & pruning
- To develop knowledge and skill in training & pruning

##### **Course Content**

- Removal of site shoots on stock & scion in pre bearing orchard
- Proper training
- Thinning of branches
- Removal of water shoots

##### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK,  
Progressive Farmers

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#### ***5.Course Code: NGPSOT-05***

##### **Title: Management of Irrigation and Drainage in Orange**

- Target group: Sweet Orange growers
- Duration: Two days
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK /NRC/ SAU/ Progressive Farmers' Sweet Orange orchard

##### **Objectives**

- To develop understanding about water requirement of Sweet Orange at diff. stages
- To develop knowledge skill in water scheduling
- To inculcate in trainees importance of drainage for Sweet Orange

##### **Course Content**

- Different methods of irrigation

- Water requirement of Orange according to crop load, canopy & type of soil
- Scheduling of irrigation
- Testing of water holding capacity
- Permanent wilting point and field capacity
- Diff. Types of drainage systems
- Role of drainage
- Effect of bad drainage on fruit quality & plant health

#### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK,  
Progressive Farmers

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#### **6. Course Code: NGPSOT-06**

##### **Title: Value addition & Marketing of Sweet Orange**

- Target group: Sweet Orange growers & agri- entrepreneurs(NHM)
- Duration: Two days
- Month: March-April
- Venue: District Training Center/ Agropolyclinic / KVK / Sweet Orange Processing Unit

##### **Objectives**

- To develop knowledge & skill of trainee farmers in preparation of selected byproducts from Sweet Orange
- To develop knowledge about use of Sweet Orange in cosmetics, animal feed, peel oil & winery
- To motivate farmers to establishment Sweet Orange Growers Marketing & processing groups in rural area

##### **Course Content**

- Byproducts from Sweet Orange Juice
- Concentrated Juice
- Preservation of slices
- Use of orange in cosmetics
- Extraction of peel oil
- Establishment of Sweet Orange Growers' & Marketing Associations
- Formation of Processing & Marketing interest groups

## **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ NRC/ KVK, Owners of processing units, Progressive farmers

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## **Vegetables**

### ***1. Course Code: NGPVT-02***

#### **Title: Post Harvest management in vegetables**

- Target group: Vegetable growers
- Duration: One day
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK / SAU/ Progressive Farmers' field

#### **Objectives**

- To develop skill in grading, packing of Vegetables for marketing
- To sensitize the trainees about hygiene maintenance after harvest of vegetables

#### **Course Content**

- Maturity signs
- Cleaning of vegetables
- Methods of storage ofvegetables
- Moisture at storage stage
- Hormone sprays to increase shelf life
- Use of Kanda Chal for Onion storage
- Packaging of vegetables for different markets

## **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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### ***1. Course Code: NGPFT-01***

#### **Title: Production of Planting Material of Flower Crops**

- Target group: Floriculture beneficiaries under NHM

- Duration: Two days
- Month: November- December
- Venue: District Training Center/ Agropolyclinic / SAU/ KVK / Progressive farmer's field

### **Objectives**

- To develop knowledge about greenhouse & polyhouse
- To develop knowledge and skill in diff. methods of flower seed production
- To develop skill in good flower nursery practices for production of planting material

### **Course Content**

- Preparation of seeding in Green house & Polyhouse
- Preparation in open field
- Selection of flowers
- Self pollination, isolation
- Bed treatment
- Seed treatment
- Fertigation
- Irrigation
- Plant protection
- Grading of planting material

### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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## ***2. Course Code: NGPFT-02***

### **Title: Cutting and Pruning Technology in Rose**

- Target group: Rose cultivators
- Duration: One day
- Month: October- November
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK / Progressive farmer's field

### **Objectives**

- To orient trainees about advantages of pruning
- To develop the skill in pruning Roses & its aftercare
- To develop skill about debudding, thinning of branches for shaping Roses

#### **Course Content**

- Types of pruning in Rose
- Time & method of pruning
- Scheduling of manures & fertilizers after pruning
- Irrigation & plant protection after pruning
- Thinning of branches
- Debudding
- Removal of dead branches
- Proper shape & size of plants

#### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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### ***3. Course Code: NGPFT-03***

#### **Title: Plant Protection in Flower crops**

- Target group: Floriculture beneficiaries under NHM
- Duration: One day
- Month: August- September
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

#### **Objectives**

- To develop knowledge about pest and diseases of Rose & other flower crops
- To sensitize about principles of integrated pest management in flower crops

#### **Course Content**

- Identification of pests & diseases
- Nature of damage
- Management diseases and pests

- Principles & practices of IPM
- Use of Biopesticides

#### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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#### **4. Course Code: NGPFT-04**

##### **Title: Irrigation & Drainage management in flower crops**

- Target group: Floriculture beneficiaries under NHM
- Duration: One day
- Month: October- November
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

##### **Objectives**

- To develop knowledge & understanding about different irrigation methods for flower crops
- To develop knowledge about use & scheduling of liquid & soluble fertilizer for different flower crops

##### **Course Content**

- Different methods of irrigation for diff. flower crops
- Mulching techniques
- Application of fertilizer through drip irrigation system
- Scheduling of liquid/ soluble fertilizers

#### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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#### **5. Course Code: NGPFT-05**

##### **Title: Post harvest management & Value Addition in flowers**

- Target group: Floriculture beneficiaries under NHM
- Duration: One day
- Month: November-December

- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK / Progressive farmer's field

### **Objectives**

- To develop the skill of farmers in debudding in Roses
- To develop knowledge and skill about increasing shelf life grading & packing of flowers
- To develop knowledge and skill in preparation of diff. value added product of flowers

### **Course Content**

- Debudding in roses
- Proper time of harvesting
- Method of harvesting
- Grading & Packing
- Treatment for increasing shelf life
- Preparation of Bouquet, garlands & other products
- Extraction of essence from flowers
- Preparation of Gulkand & Gulabjal
- Floral arrangements (Ekebana)

### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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## **Special Activities**

### ***1. Course Code: NGPCTT-01***

#### **Title: Establishment of Community Tanks**

- Target group: Beneficiaries under NHM
- Duration: One day
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

### **Objectives**

- To impart knowledge about selection of site for community tanks

- To enable the trainees to prepare estimates of construction of community tank
- To facilitate the trainees in planning for construction of community tank

#### **Course Contents**

- Selection of site
- Design of community tank
- Estimation of earthwork
- Preparation of estimate
- Planning for construction of community tank

#### **Resource Persons**

Master trainers from DoA

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## ***2. Course Code: NGPGHT-01***

### **Title: Construction & Management of Green House**

- Target group: Beneficiaries under NHM
- Duration: Two days
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

#### **Objectives**

- To impart knowledge about Green House Technology
- To know various components of Green House construction
- To facilitate the trainees in selection of crops to be grown under Green House conditions
- To impart skill for execution of various practices in Green House

#### **Course Contents**

- Principles of Green House construction
- Selection of site for Green House
- Components of Green House
- Selection of crop & varieties for cultivation in Green House
- Preparation of beds
- Fertigation management
- Plant protection in Green House

**Resource Persons**

Master trainers from DoA, Experts from Horticulture Training Center- Talegaon, Technologists from SAU/ Private firms

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**3. Course Code: NGPPHT-01****Title: Construction & Management of Pack House**

- Target group: Beneficiaries under NHM
- Duration: One day
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

**Objectives**

- To impart knowledge about Pack House Technology
- To know various components of Pack House construction
- To impart skill for preparation of project for Pack House

**Course Contents**

- Scope for Pack House construction
- Selection of site for Pack House
- Components of Pack House
- Scheduling of crop & varieties for storage in Pack House
- Preparation of project proposal of Pack house

**Resource Persons**

Master trainers from DoA, Experts from Horticulture Training Center- Talegaon, Technologists from SAU/ Private firms

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**Design of Training Courses Planned****Wardha****Orange**

### **1. Course Code: WAROT-01**

#### **Title: Phytophthora Control in Orange**

- Target group: Orange growers
- Duration: Two days
- Month: September - October
- Venue: District Training Center/ Agropolyclinic / KVK /ARS/ NRC/ SAU Farm/ Progressive Farmer's Orange orchard

#### **Objectives**

- To develop understanding about causes & symptoms of Phytophthora disease in Orange
- To develop knowledge & skill in pruning of decayed roots & dried branches
- To develop knowledge & skill in application of Redomil & Bordeaux paste

#### **Course Content**

- Symptoms of Phytophthora
- Causes of Phytophthora
- Pruning of shoots
- Digging of Beds
- Pruning of roots
- Drenching with Ridomeal
- Application of neem cake, biopesticide & biofertilizers
- Application of Bordeaux paste
- Drenching of Bordeaux Mixture
- Irrigation methods to prevent Phytophthora

#### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### **2. Course Code: WAROT-02**

#### **Title: Integrated Nutrient Management in Orange**

- Target group: Orange growers
- Duration: Two days
- Month: June-July
- Venue: District Training Center/ Agropolyclinic / KVK / ARS/ NRC/ SAU Farm/ Progressive Farmers' Orange orchard

**Objectives**

- To impart knowledge & understanding to the trainees about nutrient requirement of Orange
- To impart knowledge & skill about preparation of micronutrients at field level
- To impart skill in use of biofertilizers, Organic matter & fertilizers

**Course Content**

- Role of major & micro nutrients in quality fruit production
- Assessment of soil health at field level
- Deficiency Symptoms of major & micronutrients
- Preparation of micronutrients at field level
- Use of Biofertilizers
- Use of liquid/ soluble fertilizers
- Schedule of major and minor elements
- Methods of application

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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**3. Course Code: WAROT-03****Title: Production of Disease Free Planting Material**

- Target group: Orange growers & Nursery owners (NHM)
- Duration: Three days
- Month: September to December
- Venue: Horticulture nursery/ District Training Center/ Agropolyclinic / KVK / NRC/ SAU Nursery

**Objectives**

- To help trainees to know about good quality stock & scion
- To help in gaining knowledge of establishment of primary nursery & secondary nursery
- To develop knowledge skill in solarization of soil
- To impart knowledge about hardening of plants

**Course Content**

- Need for quality planting material

- Selection of site for nursery
- Establishment of Mother Block of Stock & scion
- Establishment Of primary nursery (Seed-Seedlings)
- Establishment Of secondary nursery (Budding-Salable)
- Demonstration of solarization
- Use of fungicides
- Hardening of plants
- Green house & Polyhouse
- Management of nursery

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### **4. Course Code: WAROT-04**

#### **Title: Management of Irrigation and Drainage in Orange**

- Target group: Orange growers
- Duration: Two days
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK /NRC/ SAU/ Progressive Farmer's Orange orchard

#### **Objectives**

- To develop understanding about water requirement of Orange at diff. stages
- To develop knowledge skill in water scheduling
- To inculcate in trainees importance of drainage for Orange

#### **Course Content**

- Different methods of irrigation
- Water requirement of Orange according to crop load, canopy & type of soil
- Scheduling of irrigation
- Testing of water holding capacity
- Permanent wilting point and field capacity
- Diff. Types of drainage systems
- Role of drainage
- Effect of bad drainage on fruit quality & plant health

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### **5. Course Code: WAROT-05**

#### **Title: Establishment of Orange Orchard**

- Target group: Farmers who have registered for Orange plantation
- Duration: One day
- Month: May - June
- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers' Orange orchard

#### **Objectives**

- To impart knowledge about soil selection for Orange and testing soils
- To impart knowledge and skill about digging & filling of pits
- To impart skill of preparing pot mixture
- To develop skill of actual planting of Orange plants

#### **Course Content**

- Site selection
- Soil testing
- Digging & Filling of pits
- Preparation of pot mixture
- Selection of planting material
- Planting
- After care
- Intercropping

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### **6. Course Code: WAROT-06**

#### **Title: Rejuvenation of Declined Orchards**

- Target group: Orange growers who have applied for rejuvenation
- Duration: One day
- Month: September to December

- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers' Old Orange orchard

**Objectives**

- To develop knowledge and skill in effective pruning of Orange trees
- To motivate farmers to adopt rejuvenation practices for old gardens

**Course Content**

- Pruning
- Application of fertilizers
- Plant protection
- Preparation of Bordeaux Paste & use
- Time of pruning

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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**7. Course Code: WAROT-07**

**Title: Pre and Post Harvest care of Orange**

- Target group: Orange growers
- Duration: One day
- Month: December to February
- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers' Orange orchard

**Objectives**

- To develop knowledge and understanding about quality parameters of fruits before harvesting
- To develop skill of harvesting, precooling & use of fungicides for fruit treatment

**Course Content**

- Identification of maturity of fruits & quality parameters
- TSS /Acidity /Acid Sugar ratio /Juice % /Skin thickness /Colour
- Harvesting method
- Precooling
- Grading
- Packing
- Use of fungicides for fruit treatment

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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**8. Course Code: WAROT-08****Title: Bahar and Fruit Management in Orange**

- Target group: Orange growers
- Duration: Two days
- Month: September- October
- Venue: District Training Center/ Agropolyclinic / KVK / NRC/ SAU/ Progressive Farmers' Orange orchard

**Objectives**

- To impart knowledge about growth hormones & retardants
- To develop skill in use of growth regulators & micronutrients
- To develop skill in noting the stress
- To develop knowledge and skill in induction of Hast & Ambia Bahar in Orange

**Course Content**

- Induction of Ambia Bahar
- Role of Bahar treatment
- Role of Growth Hormones & retardants
- Control of Fruit drop
- Use of growth regulators & micronutrients for quality improvement
- Mulching for fruit drop control
- Induction of Mrig Bahar
- Identification of water stress
- Use of growth retardants in case of untimely rains
- Control of fruit cracking & fruit drop
- Improvement of drainage
- Favorable climatic conditions for Mrig Bahar

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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## **9. Course Code: WAROT-09**

### **Title: Value addition & Marketing of Orange**

- Target group: Orange growers & agri- entrepreneurs (NHM)
- Duration: Two days
- Month: March-April
- Venue: District Training Center/ Agropolyclinic / KVK /Orange Processing Unit

### **Objectives**

- To develop knowledge & skill of trainee farmers in preparation of selected byproducts from Orange
- To develop knowledge about use of Orange in cosmetics, animal feed, peel oil & winery
- To motivate farmers to establishment Orange Growers Marketing & processing groups in rural area

### **Course Content**

- Byproducts from Orange Juice
- Marmalade
- Concentrated Juice
- Preservation of slices
- Use of orange in cosmetics
- Extraction of peel oil
- Preparation of Wine from Orange
- Establishment of Orange Growers' & Marketing Associations
- Formation of Processing & Marketing interest groups

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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## **10. Course Code: WAROT-10**

### **Title: Training, Pruning & Canopy Management**

- Target group: Orange growers
- Duration: One day

- Month: June- July
- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers’ Orange orchard

**Objectives**

- To acquaint trainees to importance of training & pruning
- To develop knowledge and skill in training & pruning

**Course Content**

- Removal of site shoots on stock & scion in pre bearing orchard
- Proper training
- Thinning of branches
- Removal of water shoots

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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**11. Course Code: WAROT-11**

**Title: Good Agriculture Practices in Orange**

- Target group: Orange growers
- Duration: One day
- Month: September to December
- Venue: District Training Center/ Agropolyclinic / KVK /NRC/ SAU/ Progressive Farmers’ Orange orchard

**Objectives**

- To develop knowledge of farmers about the GAP in Orange about cultivation, production & preharvest management

**Course Content**

- Principles of Good Agriculture Practices
- Requirements of GAP in Orange
- Export standards for Fresh Orange fruits
- GAP related to production of Orange
- GAP related to post harvest management of Orange

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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## **12. Course Code: WAROT-12**

### **Title: Organic Cultivation of Oranges**

- Target group: Orange growers
- Duration: Two days
- Month: September to December
- Venue: District Training Center/ Agropolyclinic

### **Objectives**

- To acquaint the farmers to certification of objectives of farming
- To develop knowledge & skill in production & use of Biofertilizers

### **Course Content**

- Certification of organic farming
- Use of Biofertilizers
- Preparation of Biofertilizers
- Vermicompost unit establishment
- Preparation & use of Biopesticides (Saptaparni)
- Mulching

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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## **Mango**

### **1. Course Code: WARMT-01**

#### **Title: In situ plantation of Mango**

- Target group: Farmers who have registered for Mango plantation
- Duration: One day
- Month: May & June
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

### **Objectives**

- To develop knowledge and skill in digging & filling of pits
- To train in selection of stones of mango
- To train in grafting of mango

### **Course Content**

- Selection of site
- Soil testing
- Layout & spacing
- Digging & Filling of pits
- Preparation of pot mixture
- Selection & Sowing of stones
- Selection of Mother block & varieties of Mango
- Grafting techniques
- After care
- Intercropping

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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## ***2. Course Code: WARMT-02***

### **Title: Plant protection in Mango**

- Target group: Mango growers
- Duration: One day
- Month: August to October
- Venue: District Training Center/ Agropolyclinic / Horticulture nursery/ Mango grower's orchard

### **Objectives**

- To develop knowledge about different diseases and pests in Mango
- To develop skill in pruning & use of fungicides for control of pests and diseases

### **Course Content**

- Concept of Integrated Pest management in Mango
- Pests & Diseases on Mango
- Pruning
- Application of Bordeaux
- Control of Jassids
- Malformation
- Use of Fungicides

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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**3. Course Code: WARMT-03****Title: Integrated Nutrient Management in Mango**

- Target group: Farmers who have registered for Mango plantation
- Duration: One day
- Month: May & June
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

**Objectives**

- To develop knowledge about nutrient requirement of mango in pre bearing stage
- To train the farmers about use of biological & chemical fertilizers

**Course Content**

- Uptake & requirement of nutrients
- Nutritional management in pre bearing orchard
- Year wise schedule
- Nutrition manage in bearing orchards
- Use of Biofertilizers & chemical fertilizers

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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**4. Course Code: WARMT-04****Title: Irrigation management in Mango**

- Target group: Farmers who have registered for Mango plantation
- Duration: One day
- Month: May & June
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

**Objectives**

- To develop knowledge about the importance of irrigation for Mango
- To know and apply different methods of irrigation in Mango

### **Course Content**

- Water requirement of Mango
- Scheduling of Irrigation
- Methods of irrigation
- Micro irrigation Techniques
- Mulching

### **Resource Persons**

Master trainers, Horticulture officers and Mango Scientists from SAU & KVK,

Progressive mango growers

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### **5. Course Code: WARMT-05**

#### **Title: Post Harvest Management of Mango Fruits**

- Target group: Mango growers
- Duration: One day
- Month: May & June
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

#### **Objectives**

- To develop understanding & skill in harvesting Mango
- To develop knowledge skill in fungicidal treatment of fruits
- To impart knowledge about packing of Mango fruits

#### **Course Content**

- Proper harvesting techniques
- Use of harvester
- Precooling
- Treatment of fungicides
- Grading of mango fruits
- Ripening technology
- Packing technology

#### **Resource Persons**

Master trainers, Horticulture officers and Mango Scientists from SAU & KVK,

**6. Course Code: WARMT-06**

**Title: Value Addition & Processing of Mango fruits**

- Target group: Mango growers
- Duration: Two day
- Month: May to June
- Venue: District Training Center/ SAU / KVK / Mango processing unit

**Objectives**

- To develop knowledge and skill in preparation of different products of Mango
- To prepare project for small processing unit

**Course Content**

- Principles of preservation
- Processing of raw mango fruits
- Processing of ripe fruits
- Recipes of byproducts from mango
- Packaging of byproducts
- Establishment of small mango processing unit
- Project preparation

**Resource Persons**

Master trainers, Mango Scientists from SAU & KVK, Technologists from processing industry & Progressive mango growers

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**Sweet Orange**

**1. Course Code: WARSOT-01**

**Title: Establishment of Sweet Orange Orchard**

- Target group: Farmers who have registered for Sweet Orange plantation
- Duration: One day
- Month: May to June

- Venue: District Training Center/ Agropolyclinic/ SAU / ARS/ NRC/ KVK

### **Objectives**

- To impart knowledge about soil selection for Sweet Orange
- To impart knowledge and skill about digging & filling of pits
- To impart skill of selection of good planting material
- To develop skill of proper planting of Sweet Orange grafts

### **Course Content**

- Site selection
- Soil testing
- Filling of pits
- Preparation of pot mixture
- Selection of planting material
- Planting
- After care
- Intercropping

### **Resource Persons**

Master trainers, Mango Scientists from SAU & KVK & Progressive Sweet Orange growers

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## ***2. Course Code: WARSOT-02***

### **Title: Integrated Nutrient Management in Sweet Orange**

- Target group: Sweet Orange growers
- Duration: Two days
- Month: June-July
- Venue: District Training Center/ Agropolyclinic / KVK / ARS/ NRC/ SAU Farm/ Progressive Farmers' Sweet Orange orchard

### **Objectives**

- To impart knowledge & understanding to the trainees about nutrient requirement of Sweet Orange
- To impart knowledge & skill about preparation of micronutrients at field level
- To impart skill in use of biofertilizers, Organic matter & fertilizers

**Course Content**

- Role of major & micro nutrients in quality fruit production
- Assessment of soil health at field level
- Deficiency Symptoms of major & micronutrients
- Preparation of micronutrients at field level
- Use of Biofertilizers
- Use of liquid/ soluble fertilizers
- Schedule of major and minor elements
- Methods of application

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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**3. Course Code: WARSOT-03****Title: Production of Disease Free Planting Material**

- Target group: Sweet Orange growers & Nursery owners(NHM)
- Duration: Three days
- Month: September to December
- Venue: Horticulture nursery/ District Training Center/ Agropolyclinic / KVK / NRC/ SAU Nursery

**Objectives**

- To help trainees to know about good quality stock & scion
- To help in gaining knowledge of establishment of primary nursery & secondary nursery
- To develop knowledge skill in solarization of soil
- To impart knowledge about hardening of plants

**Course Content**

- Need for quality planting material
- Selection of site for nursery
- Establishment of Mother Block of Stock & scion
- Establishment Of primary nursery (Seed-Seedlings)
- Establishment Of secondary nursery (Budding-Salable)
- Demonstration of solarization

- Use of fungicides
- Hardening of plants
- Green house & Polyhouse
- Management of nursery

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK,  
Progressive Farmers

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**4. Course Code: WARSOT-12**

**Title: Training & Pruning in Sweet Orange**

- Target group: Sweet Orange growers
- Duration: One day
- Month: June- July
- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers’  
Sweet Orange orchard

**Objectives**

- To acquaint trainees to importance of training & pruning
- To develop knowledge and skill in training & pruning

**Course Content**

- Removal of site shoots on stock & scion in pre bearing orchard
- Proper training
- Thinning of branches
- Removal of water shoots

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK,  
Progressive Farmers

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**5. Course Code: WARSOT-05**

**Title: Management of Irrigation and Drainage in Orange**

- Target group: Sweet Orange growers
- Duration: Two days
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK /NRC/ SAU/ Progressive  
Farmers’ Sweet Orange orchard

**Objectives**

- To develop understanding about water requirement of Sweet Orange at diff. stages
- To develop knowledge skill in water scheduling
- To inculcate in trainees importance of drainage for Sweet Orange

**Course Content**

- Different methods of irrigation
- Water requirement of Orange according to crop load, canopy & type of soil
- Scheduling of irrigation
- Testing of water holding capacity
- Permanent wilting point and field capacity
- Diff. Types of drainage systems
- Role of drainage
- Effect of bad drainage on fruit quality & plant health

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK,  
Progressive Farmers

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**6. Course Code: WARSOT-06****Title: Value addition & Marketing of Sweet Orange**

- Target group: Sweet Orange growers & agri- entrepreneurs(NHM)
- Duration: Two days
- Month: March-April
- Venue: District Training Center/ Agropolyclinic / KVK / Sweet Orange Processing Unit

**Objectives**

- To develop knowledge & skill of trainee farmers in preparation of selected byproducts from Sweet Orange
- To develop knowledge about use of Sweet Orange in cosmetics, animal feed, peel oil & winery
- To motivate farmers to establishment Sweet Orange Growers Marketing & processing groups in rural area

### **Course Content**

- Byproducts from Sweet Orange Juice
- Concentrated Juice
- Preservation of slices
- Use of orange in cosmetics
- Extraction of peel oil
- Establishment of Sweet Orange Growers' & Marketing Associations
- Formation of Processing & Marketing interest groups

### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ NRC/ KVK, Owners of processing units, Progressive farmers

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## **Turmeric**

### ***1. Course Code: WARTT-01***

#### **Title: Turmeric Processing**

- Target group: Floriculture beneficiaries under NHM
- Duration: One day
- Month: November- December
- Venue: District Training Center/ Agropolyclinic / SAU/ KVK / Progressive farmer's field

#### **Objectives**

- To develop skill about the processing of Turmeric
- To develop knowledge & skill about good quality of Turmeric
- To know proper methods of storage of processed Turmeric

#### **Course Content**

- Principles of processing of Turmeric
- Technology of Turmeric processing
- Quality of Dry Turmeric
- Storage of Dry Turmeric

### **Resource Persons**

- Master Trainers in DoA, Crop Scientists from SAU/ KVK, Owner of Turmeric processing unit , Progressive farmers
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## ***2. Course Code: WARTT-02***

### **Title: Selection of Good Quality Planting Material**

- Target group: Farmers registered for Turmeric plantation
- Duration: One day
- Month: May-June
- Venue: District Training Center/ Agropolyclinic / SAU/ KVK

### **Objectives**

- To develop skill in selection of rhizomes
- To motivate for the use of good quality rhizomes
- To develop knowledge about proper storage of rhizomes

### **Course Content**

- Selection of Rhizomes
- Selection of Turmeric varieties
- Assessment of Good Quality Rhizomes
- Fungicidal treatment of Rhizomes
- Proper storage of Rhizomes

### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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## **Flower Crops**

### ***1. Course Code: WARFT-01***

### **Title: Production of Planting Material of Flower Crops**

- Target group: Floriculture beneficiaries under NHM
- Duration: Two days
- Month: November- December

- Venue: District Training Center/ Agropolyclinic / SAU/ KVK / Progressive farmer's field

### **Objectives**

- To develop knowledge about greenhouse & polyhouse
- To develop knowledge and skill in diff. methods of flower seed production
- To develop skill in good flower nursery practices for production of planting material

### **Course Content**

- Preparation of seeding in Green house & Polyhouse
- Preparation in open field
- Selection of flowers
- Self pollination, isolation
- Bed treatment
- Seed treatment
- Fertigation
- Irrigation
- Plant protection
- Grading of planting material

### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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## ***2. Course Code: WARFT-02***

### **Title: Cutting and Pruning Technology in Rose**

- Target group: Rose cultivators
- Duration: One day
- Month: October- November
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK / Progressive farmer's field

### **Objectives**

- To orient trainees about advantages of pruning
- To develop the skill in pruning Roses & its aftercare

- To develop skill about debudding, thinning of branches for shaping Roses

#### **Course Content**

- Types of pruning in Rose
- Time & method of pruning
- Scheduling of manures & fertilizers after pruning
- Irrigation & plant protection after pruning
- Thinning of branches
- Debudding
- Removal of dead branches
- Proper shape & size of plants

#### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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### **3. Course Code: WARFT-03**

#### **Title: Plant Protection in Flower crops**

- Target group: Floriculture beneficiaries under NHM
- Duration: One day
- Month: August- September
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

#### **Objectives**

- To develop knowledge about pest and diseases of Rose & other flower crops
- To sensitize about principles of integrated pest management in flower crops

#### **Course Content**

- Identification of pests & diseases
- Nature of damage
- Management diseases and pests
- Principles & practices of IPM
- Use of Biopesticides

### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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#### ***4. Course Code: WARFT-04***

##### **Title: Irrigation & Drainage management in flower crops**

- Target group: Floriculture beneficiaries under NHM
- Duration: One day
- Month: October- November
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

##### **Objectives**

- To develop knowledge & understanding about different irrigation methods for flower crops
- To develop knowledge about use & scheduling of liquid & soluble fertilizer for different flower crops

##### **Course Content**

- Different methods of irrigation for diff. flower crops
- Mulching techniques
- Application of fertilizer through drip irrigation system
- Scheduling of liquid/ soluble fertilizers

### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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#### ***5. Course Code: WARFT-05***

##### **Title: Post harvest management & Value Addition in flowers**

- Target group: Floriculture beneficiaries under NHM
- Duration: One day
- Month: November-December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK / Progressive farmer's field

##### **Objectives**

- To develop the skill of farmers in debudding in Roses
- To develop knowledge and skill about increasing shelf life grading & packing of flowers
- To develop knowledge and skill in preparation of diff. value added product of flowers

### **Course Content**

- Debudding in roses
- Proper time of harvesting
- Method of harvesting
- Grading & Packing
- Treatment for increasing shelf life
- Preparation of Bouquet, garlands & other products
- Extraction of essence from flowers
- Preparation of Gulkand & Gulabjal
- Floral arrangements (Ekebana)

### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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## **Special Activities**

### ***1. Course Code: WARCTT-01***

#### **Title: Establishment of Community Tanks**

- Target group: Beneficiaries under NHM
- Duration: One day
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

#### **Objectives**

- To impart knowledge about selection of site for community tanks
- To enable the trainees to prepare estimates of construction of community tank
- To facilitate the trainees in planning for construction of community tank

### **Course Contents**

- Selection of site
- Design of community tank
- Estimation of earthwork
- Preparation of estimate
- Planning for construction of community tank

### **Resource Persons**

Master trainers from DoA

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## **2. Course Code: WARGHT-01**

### **Title: Construction & Management of Green House**

- Target group: Beneficiaries under NHM
- Duration: Two days
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

### **Objectives**

- To impart knowledge about Green House Technology
- To know various components of Green House construction
- To facilitate the trainees in selection of crops to be grown under Green House conditions
- To impart skill for execution of various practices in Green House

### **Course Contents**

- Principles of Green House construction
- Selection of site for Green House
- Components of Green House
- Selection of crop & varieties for cultivation in Green House
- Preparation of beds
- Fertigation management
- Plant protection in Green House

### **Resource Persons**

Master trainers from DoA, Experts from Horticulture Training Center- Talegaon, Technologists from SAU/ Private firms

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### **3. Course Code: WARPHT-01**

#### **Title: Construction & Management of Pack House**

- Target group: Beneficiaries under NHM
- Duration: One day
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

#### **Objectives**

- To impart knowledge about Pack House Technology
- To know various components of Pack House construction
- To impart skill for preparation of project for Pack House

#### **Course Contents**

- Scope for Pack House construction
- Selection of site for Pack House
- Components of Pack House
- Scheduling of crop & varieties for storage in Pack House
- Preparation of project proposal of Pack house

#### **Resource Persons**

Master trainers from DoA, Experts from Horticulture Training Center- Talegaon, Technologists from SAU/ Private firms

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## Design of Training Courses Planned

### Gondia

#### Mango

##### *1. Course Code: GONMT-01*

###### **Title: In situ plantation of Mango**

- Target group: Farmers who have registered for Mango plantation
- Duration: One day
- Month: May & June
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

###### **Objectives**

- To develop knowledge and skill in digging & filling of pits
- To train in selection of stones of mango
- To train in grafting of mango

###### **Course Content**

- Selection of site
- Soil testing
- Layout & spacing
- Digging & Filling of pits
- Preparation of pot mixture
- Selection & Sowing of stones
- Selection of Mother block & varieties of Mango
- Grafting techniques
- After care
- Intercropping

###### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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##### *2. Course Code: GONMT-02*

###### **Title: Plant protection in Mango**

- Target group: Mango growers
- Duration: One day
- Month: August to October

- Venue: District Training Center/ Agropolyclinic / Horticulture nursery/ Mango grower's orchard

#### **Objectives**

- To develop knowledge about different diseases and pests in Mango
- To develop skill in pruning & use of fungicides for control of pests and diseases

#### **Course Content**

- Concept of Integrated Pest management in Mango
- Pests & Diseases on Mango
- Pruning
- Application of Bordeaux
- Control of Jassids
- Malformation
- Use of Fungicides

#### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

---

### **3. Course Code: GONMT-03**

#### **Title: Micronutrient Management in Mango**

- Target group: Mango Growers
- Duration: One day
- Month: June- July
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

#### **Objectives**

- To develop knowledge about micronutrient requirement of mango.
- To impart skill for application of micronutrient

#### **Course Content**

- Role of micronutrients in quality mango production
- Deficiency symptoms
- Requirement of micronutrients
- Methods of application of micronutrients

#### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, KVK, Progressive Farmers

---

#### **4. Course Code: NGPMT-04**

##### **Title: Irrigation management in Mango**

- Target group: Farmers who have registered for Mango plantation
- Duration: One day
- Month: May & June
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

##### **Objectives**

- To develop knowledge about the importance of irrigation for Mango
- To know and apply different methods of irrigation in Mango

##### **Course Content**

- Water requirement of Mango
- Scheduling of Irrigation
- Methods of irrigation
- Micro irrigation Techniques
- Mulching

##### **Resource Persons**

Master trainers, Horticulture officers and Mango Scientists from SAU & KVK, Progressive mango growers

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#### **5. Course Code: GONMT-06**

##### **Title: Value Addition & Processing of Mango fruits**

- Target group: Mango growers
- Duration: Two day
- Month: May to June
- Venue: District Training Center/ SAU / KVK / Mango processing unit

##### **Objectives**

- To develop knowledge and skill in preparation of different products of Mango
- To prepare project for small processing unit

##### **Course Content**

- Principles of preservation
- Processing of raw mango fruits
- Processing of ripe fruits

- Recipes of byproducts from mango
- Packaging of byproducts
- Establishment of small mango processing unit
- Project preparation

### **Resource Persons**

Master trainers, Mango Scientists from SAU & KVK, Technologists from processing industry & Progressive mango growers

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### ***1. Course Code: GONAT-01***

#### **Title: Production of Grafts of Anola**

- Target group: Anola growers
- Duration: One day
- Month: July- August
- Venue: District Training Center/ Horticulture Nursery/ SAU / KVK

#### **Objectives**

- To impart skill for grafting in Anola seedlings
- To enable the trainees achieve maximum survival of grafts

#### **Course Content**

- Improved Anola varieties
- Selection of scion
- Softwood grafting techniques
- Preparation of pot mixture
- Management of grafts

### **Resource Persons**

Master trainers, Horticulture officers, Scientists from SAU & KVK,

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### ***2. Course Code: GONAT-02***

#### **Title: Establishment of Anola Orchard**

- Target group: Farmers registered for Anola plantation
- Duration: One day

- Month: June- July
- Venue: District Training Center/ Horticulture Nursery/ SAU / KVK

### **Objectives**

- To develop knowledge & skill about digging filling of pits & preparation of pot mixture
- To develop knowledge about planting, fertigation & irrigation of Anola

### **Course Content**

- Selection of soil
- Soil analysis
- Digging& Filling of pits
- Preparation of pot mixture
- selection of Variety & grafts
- Planting
- Nutrition management
- After care of planted grafts

### **Resource Persons**

Master trainers, Horticulture officers, Scientists from SAU & KVK,

---

### **3. Course Code: GONAT-03**

#### **Title: Processing and Marketing of Anola**

- Target group: Anola growers
- Duration: One day
- Month: February- March
- Venue: District Training Center/ Horticulture Nursery/ SAU / KVK

### **Objectives**

- To develop knowledge & skill in preparation of Anola byproducts
- To motivate trainees for establishment of Anola growers associations
- To impart knowledge about linkages with industry for marketing of Anola & it's products

### **Course Content**

- Preparation of byproducts Supari, Jelly, Candy, Juice, Beverages
- Organisation of Anola Growers Association
- Contract farming in Anola
- Linkages with buyers of Anola & growers

## **Resource Persons**

Master trainers, Scientists from SAU & KVK, Owners of processing units

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## **Sapota**

### ***1. Course Code: GONST-01***

#### **Title: Cultivation Practices in Sapota**

- Target group: Farmers registered for Sapota plantation
- Duration: One day
- Month: May- June
- Venue: District Training Center/ Horticulture Nursery/ SAU / KVK

#### **Objectives**

- To develop knowledge & skill about package of practices of Sapota plantation
- To impart knowledge about organic cultivation of Sapota
- To develop knowledge about irrigation methods

#### **Course Content**

- Selection of soil &Layout
- Soil analysis
- Digging & Filling of pits
- Selection of variety & grafts
- Planting & after care
- Organic fertigation
- Irrigation
- Plant protection

## **Resource Persons**

Master trainers, Scientists from SAU & KVK, Progressive farmers

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## **Vegetables**

### ***1. Course Code: GONVT-01***

#### **Title: Nursery management in Vegetable**

- Target group: Vegetable growers
- Duration: One day

- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK / SAU/ Progressive Farmers' field

### **Objectives**

- To enable the trainees to select vegetable crops and varieties for seed/ seedling production
- To develop understanding about seedling production process
- To impart skill for management of seedling production plots

### **Course Content**

- Selection of seeds
- Seed treatment
- Preparation of seedling in shed net house and in field
- Package of practices for seed/ seedling production
- Irrigation methods
- Mulching
- Preparation of seedlings of off season vegetables
- Preparation of seedlings of high value vegetables

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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## **2. Course Code: BLDVT-02**

### **Title: Post Harvest management & Processing of vegetables**

- Target group: Vegetable growers
- Duration: One day
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK / SAU/ Progressive Farmers' field

### **Objectives**

- To develop skill in grading, packing of Vegetables for marketing
- To sensitize the trainees about hygiene maintenance after harvest of vegetables

### **Course Content**

- Maturity signs
- Cleaning of vegetables
- Methods of storage of vegetables

- Hormone sprays to increase shelf life
- Preservation of vegetables
- Preparation of byproducts from vegetables
- Use of Kanda Chal for Onion storage
- Packaging of vegetables for different markets

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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## **Turmeric**

### ***1. Course Code: GONTT-01***

#### **Title: Selection of Good Quality Planting Material**

- Target group: Farmers registered for Turmeric plantation
- Duration: One day
- Month: May-June
- Venue: District Training Center/ Agropolyclinic / SAU/ KVK

#### **Objectives**

- To develop skill in selection of rhizomes
- To motivate for the use of good quality rhizomes
- To develop knowledge about proper storage of rhizomes

#### **Course Content**

- Selection of Rhizomes
- Selection of Turmeric varieties
- Assessment of Good Quality Rhizomes
- Fungicidal treatment of Rhizomes
- Proper storage of Rhizomes

### **Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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### ***2. Course Code: GONTT-02***

#### **Title: Turmeric Processing**

- Target group: Floriculture beneficiaries under NHM
- Duration: One day
- Month: November- December
- Venue: District Training Center/ Agropolyclinic / SAU/ KVK / Progressive farmer's field

### **Objectives**

- To develop skill about the processing of Turmeric
- To develop knowledge & skill about good quality of Turmeric
- To know proper methods of storage of processed Turmeric

### **Course Content**

- Principles of processing of Turmeric
- Technology of Turmeric processing
- Quality of Dry Turmeric
- Storage of Dry Turmeric

### **Resource Persons**

- Master Trainers in DoA, Crop Scientists from SAU/ KVK, Owner of Turmeric processing unit , Progressive farmers

## **Special Activities**

### ***1. Course Code: GONCTT-01***

#### **Title: Establishment of Community Tanks**

- Target group: Beneficiaries under NHM
- Duration: One day
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

### **Objectives**

- To impart knowledge about selection of site for community tanks
- To enable the trainees to prepare estimates of construction of community tank
- To facilitate the trainees in planning for construction of community tank

### **Course Contents**

- Selection of site

- Design of community tank
- Estimation of earthwork
- Preparation of estimate
- Planning for construction of community tank

**Resource Persons**

Master trainers from DoA

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**2. Course Code: GONGHT-01**

**Title: Construction & Management of Green House**

- Target group: Beneficiaries under NHM
- Duration: Two days
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

**Objectives**

- To impart knowledge about Green House Technology
- To know various components of Green House construction
- To facilitate the trainees in selection of crops to be grown under Green House conditions
- To impart skill for execution of various practices in Green House

**Course Contents**

- Principles of Green House construction
- Selection of site for Green House
- Components of Green House
- Selection of crop & varieties for cultivation in Green House
- Preparation of beds
- Fertigation management
- Plant protection in Green House

**Resource Persons**

Master trainers from DoA, Experts from Horticulture Training Center- Talegaon, Technologists from SAU/ Private firms

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### **3. Course Code: GONPHT-01**

#### **Title: Construction & Management of Pack House**

- Target group: Beneficiaries under NHM
- Duration: One day
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

#### **Objectives**

- To impart knowledge about Pack House Technology
- To know various components of Pack House construction
- To impart skill for preparation of project for Pack House

#### **Course Contents**

- Scope for Pack House construction
- Selection of site for Pack House
- Components of Pack House
- Scheduling of crop & varieties for storage in Pack House
- Preparation of project proposal of Pack house

#### **Resource Persons**

Master trainers from DoA, Experts from Horticulture Training Center- Talegaon, Technologists from SAU/ Private firms

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## Design of Training Courses Planned

### Chandrapur

#### Mango

##### *1. Course Code: CHPMT-01*

##### **Title: In situ plantation of Mango**

- Target group: Farmers who have registered for Mango plantation
- Duration: One day
- Month: May & June
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

##### **Objectives**

- To develop knowledge and skill in digging & filling of pits
- To train in selection of stones of mango
- To train in grafting of mango

##### **Course Content**

- Selection of site
- Soil testing
- Layout & spacing
- Digging & Filling of pits
- Preparation of pot mixture
- Selection & Sowing of stones
- Selection of Mother block & varieties of Mango
- Grafting techniques
- After care
- Intercropping

##### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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##### *2. Course Code: CHPMT-02*

##### **Title: Protection of Inflorescence in Mango**

- Target group: Mango growers
- Duration: One day
- Month: August to October

- Venue: District Training Center/ Agropolyclinic / Horticulture nursery/ Mango grower's orchard

#### **Objectives**

- To develop knowledge about different diseases and pests in Mango
- To develop skill in pruning & use of fungicides for control of pests and diseases

#### **Course Content**

- Concept of Integrated Pest management in Mango
- Pests & Diseases on Mango
- Pruning
- Application of Bordeaux
- Control of Jassids
- Malformation
- Use of Fungicides

#### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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### **3. Course Code: CHPMT-03**

#### **Title: Nutrient Management in Mango**

- Target group: Mango Growers
- Duration: One day
- Month: June- July
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

#### **Objectives**

- To develop knowledge about micronutrient requirement of mango.
- To impart skill for application of micronutrient

#### **Course Content**

- Role of micronutrients in quality mango production
- Deficiency symptoms
- Requirement of micronutrients
- Methods of application of micronutrients

#### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, KVK, Progressive Farmers

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#### **4. Course Code: CHPMT-04**

##### **Title: Irrigation management in Mango**

- Target group: Farmers who have registered for Mango plantation
- Duration: One day
- Month: May & June
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

##### **Objectives**

- To develop knowledge about the importance of irrigation for Mango
- To know and apply different methods of irrigation in Mango

##### **Course Content**

- Water requirement of Mango
- Scheduling of Irrigation
- Methods of irrigation
- Micro irrigation Techniques
- Mulching

##### **Resource Persons**

Master trainers, Horticulture officers and Mango Scientists from SAU & KVK, Progressive mango growers

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#### **5. Course Code: CHPMT-06**

##### **Title: Processing and Marketing of Mango fruits**

- Target group: Mango growers
- Duration: Two day
- Month: May to June
- Venue: District Training Center/ SAU / KVK / Mango processing unit

##### **Objectives**

- To develop knowledge and skill in preparation of different products of Mango
- To prepare project for small processing unit
- To enable the trainees to assess market needs for Mango

##### **Course Content**

- Principles of preservation
- Processing of raw & ripe mango fruits

- Recipes of byproducts from mango
- Packaging of byproducts
- Establishment of small mango processing unit
- Project preparation
- Marketing of Mango
- Export standards for mango

#### **Resource Persons**

Master trainers, Mango Scientists from SAU & KVK, Technologists from processing industry & Progressive mango growers

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### **Sapota**

#### ***1. Course Code: CHPST-01***

#### **Title: Cultivation Practices in Sapota**

- Target group: Farmers registered for Sapota plantation
- Duration: One day
- Month: May- June
- Venue: District Training Center/ Horticulture Nursery/ SAU / KVK

#### **Objectives**

- To develop knowledge & skill about package of practices of Sapota plantation
- To impart knowledge about organic cultivation of Sapota
- To develop knowledge about irrigation methods

#### **Course Content**

- Selection of soil & Layout
- Soil analysis
- Digging & Filling of pits
- Selection of variety & grafts
- Planting & after care
- Organic fertigation
- Irrigation
- Plant protection

#### **Resource Persons**

Master trainers, Scientists from SAU & KVK, Progressive farmers

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## **2. Course Code: CHPST-02**

### **Title: Nutrient management in Sapota**

- Target group: Sapota growers
- Duration: One day
- Month: May- June
- Venue: District Training Center/ Horticulture Nursery/ SAU / KVK

### **Objectives**

- To develop knowledge about nutrient & micronutrient requirement of Sapota
- To sensitize about use of organic nutrients in Sapota
- To impart skill for application of nutrients

### **Course Content**

- Role of nutrients in Sapota production
- Role of micronutrients in quality Sapota production
- Deficiency symptoms
- Nutrient requirement & scheduling
- Methods of application of nutrients

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, KVK, Progressive Farmers

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## **3. Course Code: CHPST-03**

### **Title: Pre and post harvesting techniques in Sapota**

- Target group: Sapota growers
- Duration: One day
- Month: April to June
- Venue: District Training Center/ Horticulture Nursery/ SAU / KVK

### **Objectives**

- To develop knowledge about preharvest care of Sapota
- To impart skill for proper harvesting and post harvest practices in Sapota

### **Course Content**

- Maturity signs

- Pre harvest care
- Harvesting techniques
- Post harvest care
- Storage and ripening of Sapota

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, KVK, Progressive Farmers

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## **Anola**

### ***1. Course Code: CHPAT-01***

#### **Title: Production of Grafts of Anola**

- Target group: Anola growers
- Duration: One day
- Month: July- August
- Venue: District Training Center/ Horticulture Nursery/ SAU / KVK

#### **Objectives**

- To impart skill for grafting in Anola seedlings
- To enable the trainees achieve maximum survival of grafts

#### **Course Content**

- Improved Anola varieties
- Selection of scion
- Softwood grafting techniques
- Preparation of pot mixture
- Management of grafts

### **Resource Persons**

Master trainers, Horticulture officers, Scientists from SAU & KVK,

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### ***2. Course Code: CHPAT-02***

#### **Title: Establishment of Anola Orchard**

- Target group: Farmers registered for Anola plantation
- Duration: One day
- Month: June- July

- Venue: District Training Center/ Horticulture Nursery/ SAU / KVK

### **Objectives**

- To develop knowledge & skill about digging filling of pits & preparation of pot mixture
- To develop knowledge about planting, fertigation & irrigation of Anola

### **Course Content**

- Selection of soil
- Soil analysis
- Digging& Filling of pits
- Preparation of pot mixture
- selection of Variety & grafts
- Planting
- Nutrition management
- After care of planted grafts

### **Resource Persons**

Master trainers, Horticulture officers, Scientists from SAU & KVK,

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### **3. Course Code: CHPAT-03**

#### **Title: Processing and Marketing of Anola**

- Target group: Anola growers
- Duration: One day
- Month: February- March
- Venue: District Training Center/ Horticulture Nursery/ SAU / KVK

### **Objectives**

- To develop knowledge & skill in preparation of Anola byproducts
- To motivate trainees for establishment of Anola growers associations
- To impart knowledge about linkages with industry for marketing of Anola & it's products

### **Course Content**

- Preparation of byproducts Supari, Jelly, Candy, Juice, Beverages
- Organisation of Anola Growers Association
- Contract farming in Anola

- Linkages with buyers of Anola & growers

#### **Resource Persons**

Master trainers, Scientists from SAU & KVK, Owners of processing units

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### ***1. Course Code: CHPVT-01***

#### **Title: Nursery management in Vegetable**

- Target group: Vegetable growers
- Duration: One day
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK / SAU/ Progressive Farmers' field

#### **Objectives**

- To enable the trainees to select vegetable crops and varieties for seed/ seedling production
- To develop understanding about seedling production process
- To impart skill for management of seedling production plots

#### **Course Content**

- Selection of seeds
- Seed treatment
- Preparation of seedling in shed net house and in field
- Package of practices for seed/ seedling production
- Irrigation methods
- Mulching
- Preparation of seedlings of off season vegetables
- Preparation of seedlings of high value vegetables

#### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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### ***2. Course Code: CHPVT-02***

#### **Title: Post Harvest management & Processing of vegetables**

- Target group: Vegetable growers
- Duration: One day
- Month: August -September

- Venue: District Training Center/ Agropolyclinic / KVK / SAU/ Progressive Farmers' field

### **Objectives**

- To develop skill in grading, packing of Vegetables for marketing
- To sensitize the trainees about hygiene maintenance after harvest of vegetables

### **Course Content**

- Maturity signs
- Cleaning of vegetables
- Methods of storage of vegetables
- Hormone sprays to increase shelf life
- Preservation of vegetables
- Preparation of byproducts from vegetables
- Use of Kanda Chal for Onion storage
- Packaging of vegetables for different markets

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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## **Turmeric**

### ***1. Course Code: CHPTT-01***

#### **Title: Selection of Good Quality Planting Material**

- Target group: Farmers registered for Turmeric plantation
- Duration: One day
- Month: May-June
- Venue: District Training Center/ Agropolyclinic / SAU/ KVK

### **Objectives**

- To develop skill in selection of rhizomes
- To motivate for the use of good quality rhizomes
- To develop knowledge about proper storage of rhizomes

### **Course Content**

- Selection of Rhizomes
- Selection of Turmeric varieties

- Assessment of Good Quality Rhizomes
- Fungicidal treatment of Rhizomes
- Proper storage of Rhizomes

**Resource Persons**

Master Trainers in DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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**2. Course Code: CHPTT-02**

**Title: Turmeric Processing**

- Target group: Floriculture beneficiaries under NHM
- Duration: One day
- Month: November- December
- Venue: District Training Center/ Agropolyclinic / SAU/ KVK / Progressive farmer's field

**Objectives**

- To develop skill about the processing of Turmeric
- To develop knowledge & skill about good quality of Turmeric
- To know proper methods of storage of processed Turmeric

**Course Content**

- Principles of processing of Turmeric
- Technology of Turmeric processing
- Quality of Dry Turmeric
- Storage of Dry Turmeric

**Resource Persons**

- Master Trainers in DoA, Crop Scientists from SAU/ KVK, Owner of Turmeric processing unit , Progressive farmers
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**Special Activities**

**1. Course Code: CHPCTT-01**

**Title: Establishment of Community Tanks**

- Target group: Beneficiaries under NHM
- Duration: One day

- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

### **Objectives**

- To impart knowledge about selection of site for community tanks
- To enable the trainees to prepare estimates of construction of community tank
- To facilitate the trainees in planning for construction of community tank

### **Course Contents**

- Selection of site
- Design of community tank
- Estimation of earthwork
- Preparation of estimate
- Planning for construction of community tank

### **Resource Persons**

Master trainers from DoA

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## ***2. Course Code: CHPGHT-01***

### **Title: Construction & Management of Green House**

- Target group: Beneficiaries under NHM
- Duration: Two days
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

### **Objectives**

- To impart knowledge about Green House Technology
- To know various components of Green House construction
- To facilitate the trainees in selection of crops to be grown under Green House conditions
- To impart skill for execution of various practices in Green House

### **Course Contents**

- Principles of Green House construction
- Selection of site for Green House
- Components of Green House

- Selection of crop & varieties for cultivation in Green House
- Preparation of beds
- Fertigation management
- Plant protection in Green House

**Resource Persons**

Master trainers from DoA, Experts from Horticulture Training Center- Talegaon, Technologists from SAU/ Private firms

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**3. Course Code: CHPPHT-01**

**Title: Construction & Management of Pack House**

- Target group: Beneficiaries under NHM
- Duration: One day
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

**Objectives**

- To impart knowledge about Pack House Technology
- To know various components of Pack House construction
- To impart skill for preparation of project for Pack House

**Course Contents**

- Scope for Pack House construction
- Selection of site for Pack House
- Components of Pack House
- Scheduling of crop & varieties for storage in Pack House
- Preparation of project proposal of Pack house

**Resource Persons**

Master trainers from DoA, Experts from Horticulture Training Center- Talegaon, Technologists from SAU/ Private firms

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## **Design of Training Courses Planned Gadhchiroli**

### **Mango**

#### ***1. Course Code: GADMT-01***

##### **Title: Establishment of in situ plantation of Mango**

- Target group: Farmers who have registered for Mango plantation
- Duration: One day
- Month: May & June
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

##### **Objectives**

- To develop knowledge and skill in digging & filling of pits
- To train in selection of stones of mango
- To train in grafting of mango

##### **Course Content**

- Selection of site
- Soil testing
- Layout & spacing
- Digging & Filling of pits
- Preparation of pot mixture
- Selection & Sowing of stones
- Selection of Mother block & varieties of Mango
- Grafting techniques
- After care
- Intercropping

##### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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#### ***2. Course Code: GADMT-02***

##### **Title: Nutrient Management in Mango**

- Target group: Mango Growers
- Duration: One day
- Month: June- July
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

**Objectives**

- To develop knowledge about micronutrient requirement of mango.
- To impart skill for application of micronutrient

**Course Content**

- Role of micronutrients in quality mango production
- Deficiency symptoms
- Requirement of micronutrients
- Methods of application of micronutrients

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, KVK, Progressive Farmers

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**3. Course Code: GADMT-03****Title: Post Harvest Management of Mango Fruits**

- Target group: Mango growers
- Duration: One day
- Month: May & June
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

**Objectives**

- To develop understanding & skill in harvesting Mango
- To develop knowledge skill in fungicidal treatment of fruits
- To impart knowledge about packing of Mango fruits

**Course Content**

- Proper harvesting techniques
- Use of harvester
- Precooling
- Treatment of fungicides
- Grading of mango fruits
- Ripening technology
- Packing technology

**Resource Persons**

Master trainers, Horticulture officers and Mango Scientists from SAU & KVK, Progressive mango growers

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#### **4. Course Code: GADMT-04**

##### **Title: Canopy management in Mango**

- Target group: Mango growers
  - Duration: One day
  - Month: June- July
  - Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery / Progressive Farmers' Mango orchard
  - Objectives
    - To understand need for training and pruning in mango
    - To perform different pruning practices in mango
    - To prepare & apply Bordeaux paste to the pruned branches
  - Course Content
    - Concept of canopy management
    - Pruning technology & its benefits
    - Methods of pruning
    - Pesticide application & after care
  - Resource Persons  
Master trainers, Horticulture officers and Mango Scientists from SAU & KVK, Progressive mango growers
- 

#### **5. Course Code: GADMT-05**

##### **Title: Protection of Inflorescence in Mango**

- Target group: Mango growers
- Duration: One day
- Month: August to October
- Venue: District Training Center/ Agropolyclinic / Horticulture nursery/ Mango grower's orchard

##### **Objectives**

- To develop knowledge about different diseases and pests in Mango
- To develop skill in pruning & use of fungicides for control of pests and diseases

##### **Course Content**

- Concept of Integrated Pest management in Mango
- Pests & Diseases on Mango

- Pruning
- Application of Bordeaux
- Control of Jassids
- Malformation
- Use of Fungicides

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, NRC, KVK, Progressive Farmers

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**6. Course Code: GADMT-06**

**Title: Irrigation management in Mango**

- Target group: Farmers who have registered for Mango plantation
- Duration: One day
- Month: May & June
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

**Objectives**

- To develop knowledge about the importance of irrigation for Mango
- To know and apply different methods of irrigation in Mango

**Course Content**

- Water requirement of Mango
- Scheduling of Irrigation
- Methods of irrigation
- Micro irrigation Techniques
- Mulching

**Resource Persons**

Master trainers, Horticulture officers and Mango Scientists from SAU & KVK, Progressive mango growers

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**7. Course Code: GADMT-07**

**Title: Processing of Mango fruits**

- Target group: Mango growers

- Duration: Two day
- Month: May to June
- Venue: District Training Center/ SAU / KVK / Mango processing unit

### **Objectives**

- To develop knowledge and skill in preparation of different products of Mango
- To prepare project for small processing unit

### **Course Content**

- Principles of preservation
- Processing of raw & ripe mango fruits
- Recipes of byproducts from mango
- Packaging of byproducts
- Establishment of small mango processing unit
- Project preparation

### **Resource Persons**

Master trainers, Mango Scientists from SAU & KVK, Technologists from processing industry & Progressive mango growers

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## **Cashew**

### ***1. Course Code: GADCT-01***

#### **Title: In situ Plantation of Cashew**

- Target group: Farmers who have registered for Cashew plantation
- Duration: One day
- Month: May & June
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

### **Objectives**

- To select and prepare proper land for cashew cultivation
- To prepare & fill proper pits for plantation of cashew grafts
- To select & plant good cashew grafts scientifically
- To prepare *Jalkunda* for water hrvesting

### **Course Content**

- Selection of site for cashew orchard

- Soil health analysis
- Layout for mango orchard
- Preparation & Filling of pits
- Selection of good Cashew grafts
- Planting techniques for Cashew grafts
- Preparation of contour trenches
- Erection of fencing

**Resource Persons**

Master trainers, Horticulture officers and Cashew Scientists from SAU & KVK,  
Progressive Cashew growers

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**2. Course Code: GADCT-02**

**Title: Contour plantation of cashew in Hilly Area**

- Target group: Farmers who have registered for Cashew plantation
- Duration: One day
- Month: May & June
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

**Objectives**

- To select and prepare proper land for cashew cultivation
- To impart skill to mark contours.
- To enable the trainees to prepare pits along the contours

**Course Content**

- Selection of site for cashew orchard
- Contour marking with A- frame or Tube level
- Preparation of contour trenches
- Preparation & Filling of pits
- Selection of good Cashew grafts
- Planting techniques for Cashew grafts
- Erection of fencing

**Resource Persons**

Master trainers, Horticulture officers and Cashew Scientists from SAU & KVK,  
Progressive Cashew growers

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### **3. Course Code: GADCT-03**

#### **Title: Nutrient Management in Cashew**

- Target group: Cashew Growers
- Duration: One day
- Month: June- July
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery

#### **Objectives**

- To develop knowledge about nutrient requirement of Cashew.
- To impart skill for application of nutrient

#### **Course Content**

- Role of nutrients in Cashew production
- Requirement of nutrients
- Use of organic matter
- Methods of application of nutrients

#### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, KVK, Progressive Farmers

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### **4. Course Code: GADCT-04**

#### **Title: Rejuvenation of Old Cashew Trees**

- Target group: cashew growers
- Duration: One day
- Month: June to August
- Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery / Progressive Farmers' cashew orchard
- **Objectives**
  - To know causes of low productivity in old cashew trees
  - To acquaint with the principles & practices of rejuvenation of cashew trees
  - To improve nutritional management of senile cashew trees
- **Course Content**
  - Causes of low productivity in old cashew trees
  - Nutritional management
  - Use of organic matter for old cashew trees

- Conversion of local cashew trees into improved variety
  - Pest & disease management
  - Contour trenches & *Jalkunda* technology
  - Resource Persons, Master trainers, Horticulture officers and cashew Scientists from SAU & KVK, Progressive cashew growers
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#### **5. Course Code: GADCT-05**

##### **Title: Integrated Pest Management in Cashew**

- Target group: Cashew growers
  - Duration: One day
  - Month: May-June
  - Venue: District Training Center/ Agropolyclinic / Govt. Horticulture nursery / Progressive Farmers' cashew plantation
  - Objectives
    - To identify pests & diseases affecting cashew plants
    - To know measure to manage the pests & diseases on cashew
    - To acquaint with cashew plant protection schedule
  - Course Content
    - Identification of Pests on cashew
    - Identification of diseases affecting cashew
    - Control measures for pest & diseases
    - Use of neem oil
    - Cultural practices for sanitation of cashew plantation
    - Management of Tea mosquito on inflorescences
    - Plant protection schedule
    - Preparation of spray solution of pesticides
    - Preparation of Bordeaux paste
    - Resource Persons
 

Master trainers, Horticulture officers and cashew Scientists from SAU & KVK, Progressive cashew growers
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#### **6. Course Code: GADCT-06**

## **Title: Cashewnut and Cashew apple processing technology**

- Target group: Cashew growers and willing entrepreneurs
- Duration: One day
- Month: December to March
- Venue : District Training Center/ Agropolyclinic / Cashew Processing Training center/ Cashew apple processing unit
- **Objectives**
  - To acquaint with the technology of processing of cashewnut & Cashew apple
  - To perform the operations involved in processing of cashewnut & Cashew apple
  - Prepare a project proposal for establishment of cashewnut processing unit
- **Course Content**
  - Scope for cashew processing industry
  - Components of cashew processing industry
  - Cashewnut processing technology
  - Selection of cashew seeds for processing
  - Boiling of cashew seeds
  - Cutting of cashewnuts
  - Drying of cashew kernels
  - Grading& Packaging of cashew kernels
  - Cashew apple processing technology
  - Preparation of cashew RTS drink, concentrate, chutney etc.
  - Packaging of cashew syrup
  - Economics of small cashewnut processing unit
  - Preparation of project proposal
- **Resource Persons**

Master trainers, Horticulture officers and cashew Scientists from SAU & KVK, Successful cashew apple processors

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## **Sapota**

### ***1. Course Code: GADST-01***

#### **Title: Cultivation Practices in Sapota**

- Target group: Farmers registered for Sapota plantation
- Duration: One day
- Month: May- June
- Venue: District Training Center/ Horticulture Nursery/ SAU / KVK

#### **Objectives**

- To develop knowledge & skill about package of practices of Sapota plantation
- To impart knowledge about organic cultivation of Sapota
- To develop knowledge about irrigation methods

#### **Course Content**

- Selection of soil & Layout
- Soil analysis
- Digging & Filling of pits
- Selection of variety & grafts
- Planting & after care
- Organic fertigation
- Irrigation
- Plant protection

#### **Resource Persons**

Master trainers, Scientists from SAU & KVK, Progressive farmers

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### ***2. Course Code: GADST-02***

#### **Title: Nutrient management in Sapota**

- Target group: Sapota growers
- Duration: One day
- Month: May- June
- Venue: District Training Center/ Horticulture Nursery/ SAU / KVK

#### **Objectives**

- To develop knowledge about nutrient & micronutrient requirement of Sapota

- To sensitize about use of organic nutrients in Sapota
- To impart skill for application of nutrients

**Course Content**

- Role of nutrients in Sapota production
- Role of micronutrients in quality Sapota production
- Deficiency symptoms
- Nutrient requirement & scheduling
- Methods of application of nutrients

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, KVK, Progressive Farmers

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**3. Course Code: GADST-03**

**Title: Harvesting techniques in Sapota**

- Target group: Sapota growers
- Duration: One day
- Month: May- June
- Venue: District Training Center/ Horticulture Nursery/ SAU / KVK

**Objectives**

- To impart skill for proper harvesting of Sapota fruits

**Course Contents**

- Maturity signs
- Importance of harvesting
- Methods of harvesting
- Grading and storage of fruits after harvesting

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU, KVK, Progressive Farmers

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**Chilli & Onion**

**1. Course Code: GADVT-01**

**Title: Nursery management in Chilli & Onion**

- Target group: Vegetable growers
- Duration: One day
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK / SAU/ Progressive Farmers' field

### **Objectives**

- To enable the trainees to select varieties of chilli & onion for seed/ seedling production
- To develop understanding about seedling production process
- To impart skill for management of seedling production plots

### **Course Content**

- Selection of seeds
- Seed treatment
- Preparation of seedling in shed net house and in field
- Package of practices for seed/ seedling production
- Irrigation methods
- Mulching
- Plant protection in vegetable nursery

### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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## **2. Course Code: GADVT-02**

### **Title: Storage of Onion (Kanda Chal)**

- Target group: chilly & onion growers
- Duration: One day
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK / SAU/ Progressive Farmers' field
- **Objectives**
  - To make the trainees aware about post harvest losses and need for good storage of chilly & onion
  - To develop skill in grading, packing of chilly & onion

- To sensitize the trainees about hygiene maintenance after harvest of chilly & onion

- **Course Content**

- Models of Kanda chal
- Construction of Kanda chal
- Estimates of Kanda chal
- NHM scheme of Kanda chal
- Capacity/designs of Kanda chal

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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**3. Course Code: GADVT-03**

**Title: Plant protection in Chillies**

- Target group: Vegetable growers
- Duration: One day
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK / SAU/ Progressive Farmers' field
- **Objectives**
  - To impart knowledge and skill for identification of pests and diseases on chilly
  - To study different practices for pest management in chilly
- **Course Content**
  - Pest and disease on chilly
  - Nature of damage of pests
  - Integrated pest management
  - Biological control of pests and diseases
  - Use of safe pesticides

**Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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#### ***4. Course Code: GADVT-04***

##### **Title: Post Harvest management of Chilli & Onion**

- Target group: Vegetable growers
- Duration: One day
- Month: August -September
- Venue: District Training Center/ Agropolyclinic / KVK / SAU/ Progressive Farmers' field

##### **Objectives**

- To develop skill in grading, packing of chilli & onion
- To sensitize the trainees about hygiene maintenance after harvest of chilly & onion

##### **Course Content**

- Maturity signs
- Cleaning & Drying
- Extraction of seed
- Processing of Chillies
- Diff. methods of storage
- Moisture at storage stage
- Aeration
- Hormone sprays to increase shelf life
- Use of Kanda Chal

##### **Resource Persons**

Master Trainers from DoA, Crop Scientists from SAU/ KVK, Progressive farmers

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### **Special Activities**

#### ***1. Course Code: GADCTT-01***

##### **Title: Establishment of Community Tanks**

- Target group: Beneficiaries under NHM
- Duration: One day

- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

### **Objectives**

- To impart knowledge about selection of site for community tanks
- To enable the trainees to prepare estimates of construction of community tank
- To facilitate the trainees in planning for construction of community tank

### **Course Contents**

- Selection of site
- Design of community tank
- Estimation of earthwork
- Preparation of estimate
- Planning for construction of community tank

### **Resource Persons**

Master trainers from DoA

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## ***2. Course Code: GADGHT-01***

### **Title: Construction & Management of Green House**

- Target group: Beneficiaries under NHM
- Duration: Two days
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

### **Objectives**

- To impart knowledge about Green House Technology
- To know various components of Green House construction
- To facilitate the trainees in selection of crops to be grown under Green House conditions
- To impart skill for execution of various practices in Green House

### **Course Contents**

- Principles of Green House construction
- Selection of site for Green House
- Components of Green House

- Selection of crop & varieties for cultivation in Green House
- Preparation of beds
- Fertigation management
- Plant protection in Green House

**Resource Persons**

Master trainers from DoA, Experts from Horticulture Training Center- Talegaon, Technologists from SAU/ Private firms

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**3. Course Code: GADPHT-01**

**Title: Construction & Management of Pack House**

- Target group: Beneficiaries under NHM
- Duration: One day
- Month: October to December
- Venue: District Training Center/ Agropolyclinic / Horticulture Nursery/ SAU/ KVK

**Objectives**

- To impart knowledge about Pack House Technology
- To know various components of Pack House construction
- To impart skill for preparation of project for Pack House

**Course Contents**

- Scope for Pack House construction
- Selection of site for Pack House
- Components of Pack House
- Scheduling of crop & varieties for storage in Pack House
- Preparation of project proposal of Pack house

**Resource Persons**

Master trainers from DoA, Experts from Horticulture Training Center- Talegaon, Technologists from SAU/ Private firms

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## Farmers Field Schools in Orange

Horticultural crops provide higher monetary returns consistently on a long term basis to farmers. Sweet lime, Oranges, Pomegranate, Mango, Sapota, Grapes, Banana etc. fruit crops are grown widely and being promoted on large scale in Maharashtra. Recently both area and production of these fruit crops is increasing, however farmers are facing problems like low productivity and low monetary returns mostly due to poor management of the orchards and weak linkage with market structure. A need for integrated approach for management of fruit crops is felt then. Among these fruit crops Orange, Sweet lime, Pomegranate and Mango needs serious attention immediately as these crops face severe problems like Dieback, Black fly, Phytophthora, Bacterial Oily Spots 'Tellya', Inderbella, Hopper etc.

Various approaches are being adopted for dissemination of technology and its adoption. However when problems need to be addressed holistically, and when management also becomes crucial, traditional methods of technology transfer becomes less effective. In case of Sweet Lime, Oranges, Pomegranate and Mango we need to address issues like:

- Nutrition management
- Pest management
- Management of Horticultural practices like bahar treatment
- Intercropping
- Post harvest technology, grading, packing, processing & marketing etc.

Under such scenario we have to choose one of the best effective methods of technology transfer. With the initiative from Food and Agriculture Organisation the concept of Farmers' Field School has been widely adopted in India as an innovative extension tool. The FFS tool is well adopted by Department of Agriculture in Maharashtra especially for Cotton, Paddy and Sugarcane. The Experience of farmer's field school (FFS) in cotton has proved that it is one of the best approaches to disseminate sustainable technologies like IPM, INM, Agro-ecosystem analysis, monitoring and decision making accordingly. With adoption of farmer field school (FFS) approach farmers were not only trained in techniques of IPM, but they became trainers and partners in IPM movement which brought out a considerable relief on the front of pest management and also helped in spread of sustainable technologies like integrated crop management which includes INM and organic farming. The theme of FFS is learning through participatory way. The features of FFS approach are as follows..

- Agro-ecosystem analysis and monitoring
- Use of indigenous exogenous pest management practices
- Farmers can develop their own IPM package
- Use of bio-pesticides & pesticides as per need
- Identification of friendly insects and ways to protect them
- Group dynamics- need for collective action

### **The FFS approach include-**

- On farm training on a staggered basis throughout growing season of a crop
- Experiments to draw desired learning on farm visits
- Observation of agro-ecosystems & its analysis (AESA)
- Enabling farmers to take up decisions based on AESA
- Elements of group dynamics

- Farmers are encouraged to become trainers and to form partnerships with Govt. agencies and NGOs for further spread of technologies

Based on this experience now it is being proposed to introduce farmer field school concept in horticultural crops for their better management. To start the FFS approach on pilot basis the task group proposes 4 crops viz. Sweet Orange, Mandarin Orange, Pomegranate and Mango under National Horticultural Mission.

### **Objectives**

- To develop healthy horticultural orchards
- To introduce integrated approaches in farmers for complete management of horticultural crops
- To increase productivity and quality of fruit crops
- To promote integrated pest management approach
- To promote integrated nutrient management approach
- To promote Post harvest technologies and marketing skills and thereby increase net monetary returns of farmers
- To reduce cost of production

**Training of Facilitators**  
**Plan of ToF in Maharashtra**

<b>Sr No</b>	<b>Crop</b>	<b>Trainee Facilitators</b>	<b>Master Trainer &amp; Crop Scientists</b>	<b>Duration</b>	<b>Venue</b>
<b>1</b>	Orange	30	5	90	NRC Citrus, Nagpur
<b>2</b>	Sweet Orange	30	5	90	MAU , Parbhani
<b>3</b>	Mango	30	5	90	Dr BSKKV, Dapoli
<b>4</b>	Pomegranate	30	5	90	MAPKV, Rahuri

**General Weekly Curriculum Frame Work for ToF in fruit Crop**

<b>Day</b>	<b>Forenoon Session</b>	<b>Group Dynamics</b>	<b>Afternoon session</b>
Monday	Fruit crop physiology or short study	G.D.	Non formal education
Tuesday	Long term or short term experiment	G.D.	Special topic (by Gaust or other)
Wednesday	Short study	G.D.	FFS preparation
Thursday	FFS practice day	G.D.	FFS feed back
Friday	AESA	G.D.	Insect Zoo/NFE
Saturday	AESA follow up action	G.D.	Special topic or NFE (skills)
Sunday	Rest Day		

## I. Curriculum For ToF in Orange

Duration (90 days)

### I-First Fortnight (10<sup>th</sup> June – 30<sup>th</sup> June)

Technical Input	Group Dynamics	Participatory Activities / Skills
1. Discussion on morphology & physiology of Orange	1. Introduction by chain	1. Inauguration of ToF
2. Selection of newly planted, poorly managed & healthy Orange orchard for AESA	2. Grouping by animal sound naming of fruit crop	2. Selection of village for practice FFS
3. Agro Eco-system (AES) concept	3. Nine dot game	3. Pre-programme or pre-FFS discussion with farmers
4. Agro Eco-system Analysis (AESA)	4. Pen in Bottle	4. Listing of 25 farmers & group formation
5. Types of soils ideal soil for Orange	5. Longest line	5. Concept of FFS objectives, benefits
6. Drawing of soil sample from orange orchard	6. Ten horses	6. Training Methodology
7. Discussion on soil testing report	7. Hot potato	7. Visit to selected gardens for field study
8. Pre-evaluation test	8. ICM mantra	8. General weekly curriculum frame work of ToF for Orange
9. Ballot Box Test	9. Drawing without lifting pen	9. Objective and quality indicators
10. Pruning technique in old orange orchards	10. Broken square	10. FSM (Facilitation of Scientific Method)
11. Inter cropping viz. Cowpea, Soyabean for conservation of friendly insect in orange orchard		

## II. Curriculum For 1<sup>st</sup> August – 20<sup>th</sup> August

<b>Technical Input</b>	<b>Group Dynamics</b>	<b>Participatory activities</b>
<ol style="list-style-type: none"> <li>1. Method of Orange plantation</li> <li>2. Digging &amp; filling of pit</li> <li>3. Short term expt. on 'Root &amp; Plant' vessels</li> <li>4. Deficiency symptoms identification and discussion on INM in orange</li> <li>5. Different types of weeds observed in fruit crop ecosystem &amp; their management (special topic)</li> <li>6. Diseases of Orange (Phytophthora, die back etc.) &amp; their management</li> <li>7. Short study on leaf minor &amp; leaf roller fruit fly</li> <li>8. Short study on disease triangle</li> <li>9. Short study on Phytophthora</li> <li>10. Short study on Bordeaux Paste</li> <li>11. Discussion on types of traps</li> <li>12. Discussion insect zoo</li> <li>13. Importance of growth hormones specially NAA &amp; PPM preparation of solutions</li> </ol>	<ol style="list-style-type: none"> <li>1. Water Bridge</li> <li>2. Longest Line</li> <li>3. Balloon Bursting</li> <li>4. Whisper Communication</li> <li>5. Drawing Without Lifting Pen</li> </ol>	<ol style="list-style-type: none"> <li>1. AESA observations drawing &amp; presentation (Two times)</li> <li>2. Effect of pesticides on human health</li> <li>3. Experimental learning cycle</li> <li>4. Adult learning principals</li> <li>5. FFS village visits (Two time)</li> <li>6. Motivation skills</li> <li>7. Practical preparation &amp; application of Bordeaux paste</li> <li>8. Difference between facilitator &amp; Teacher (with Role Play)</li> </ol>

### III – Curriculum For 1<sup>st</sup> October – 20<sup>th</sup> October

Technical Input	Group Dynamic	Participatory Activities
<ol style="list-style-type: none"> <li>1. Short term expt. on water holding capacity</li> <li>2. Special topic on methods of irrigation; their advantages &amp; disadvantages, mulching method</li> <li>3. Discussion on diff. types of Bahars' taken in Orange Identification of water stress</li> <li>4. Basic entomology to understand insect pests</li> <li>5. Short study on Aphid, White fly, Jassids, Thrips &amp; Black fly</li> <li>6. Short study on Earthworm</li> <li>7. Special discussion on vermiculture, vermicompost &amp; vermiwash</li> <li>8. Certification of organic farming</li> <li>9. Control of fruit cracking / drop</li> <li>10. Green manuring in Orange</li> </ol>	<ol style="list-style-type: none"> <li>1. Pen in Bottle</li> <li>2. Talat Malat</li> <li>3. Blind Walk</li> <li>4. Three 'G'</li> <li>5. Musical Chair</li> </ol>	<ol style="list-style-type: none"> <li>1. AESA in newly planted, unmanaged &amp; healthy gardens (Two time)</li> <li>2. FFS village visit (Two times)</li> <li>3. AESA decision follow up</li> <li>4. Facilitation skills</li> <li>5. Communication skills</li> <li>6. Practice FFS planning &amp; preparation</li> <li>7. Discussion on FFS visit feed back</li> <li>8. Preparation B.D. compost, C.P.P.</li> <li>9. Study tour visit to other ToF</li> </ol>

#### IV. Curriculum for ToF for the period 1<sup>st</sup> December – 20<sup>th</sup> December

Technical Input	Group Dynamic	Participatory Activities
1. Short study on fruit sucking moth in orange	1. Role Play	1. AESA (Two time) in selected three orchards
2. Special discussion on drip irrigation	2. What do you see	2. Practice FFS village visits (Two times)
3. Short study on Citrus psylla Inderbella (Bark borer)	3. Gibberish Language	3. AESA decision follow up
4. Special discussion on Citrus mites	4. Tying knot	4. Public speaking skills
5. Special discussion on biofertilizer & biopesticides and their role in plant nutrients	5. Horse ridding and G. D.s by participants	5. FFS feed backs (discussion)
6. Special discussion on Insecticides and their mode of actions		6. Observations on AESA follow up activities
7. Special discussion on fungicides		
8. Mid evaluation test of participants		
9. Visit to orange orchard with specialist		
10. Training & pruning in Orange		
11. Different types of drainage system. Effect of bad drainage on Orange		

**V. Curriculum For The Period (5<sup>th</sup> Jan to 15<sup>th</sup> Jan)**

<b>Technical Inputs</b>	<b>Group Dynamics</b>	<b>Participatory Activities / Skills</b>
<ol style="list-style-type: none"> <li>1. Short term expt. On seed germination (To show the bad effect on root system of excessive irrigation)</li> <li>2. Discussion on Ambiya Bahar in orange</li> <li>3. Identifications maturity of fruits &amp; quality parameters TSS/Acidity/Acid sugar/Skin thickness/Colour</li> <li>4. Marketing grading and handling of fruits</li> <li>5. Discussion on orange processing</li> <li>6. Short study on mulching</li> <li>7. Methods of protection of small plants from high temperature</li> <li>8. Post evaluation test</li> <li>9. Field day</li> <li>10. Validictory function</li> </ol>	<ol style="list-style-type: none"> <li>1. Tower building</li> <li>2. Watch the face</li> <li>3. Psychology of the farmers after loosing coins in water</li> <li>4. Practice of Role Play</li> <li>5. Role Play</li> </ol>	<ol style="list-style-type: none"> <li>1. AESA in three selected orchards</li> <li>2. AESA decision follow up</li> <li>3. Observation on AESA follow up activities</li> <li>4. What is this?</li> <li>5. What is that? (NFE)</li> <li>6. Brain Storming</li> <li>7. Participatory visit to fruit processing unit</li> </ol>

## **Farmers Field School (FFS)**

The third and crucial phase of the FFS project is actual implementation of Farmers Field School. Essentially the FFS is organized at the farmers field. Each FFS is of 20 days duration during which 20 field visits are organized. The field visits are coincided with the production cycle of the fruit crop. The period from harvest of previous crop upto the harvest of next crop is treated as production period. The FFS is also organized in newly planted orchards. The decision is based on the local needs. At the end of FFS a Field Day is organized.

### **The FFS approach include-**

- On farm training on a staggered basis throughout growing season of a crop
- Experiments to draw desired learning on farm visits
- Observation of agro-ecosystems & its analysis (AESA)
- Enabling farmers to take up decisions based on AESA
- Elements of group dynamics
- Farmers are encouraged to become trainers and to form partnerships with
- Govt. agencies and NGOs for further spread of technologies

### **Objectives:**

- To enable the growers observe and analyse the Agro-eco System existing at his farm
- To enable the growers to understand the concept & principles of Integrated Crop management in fruit crops
- To enable the growers to take decisions based on Agro-eco System Analysis (AESA)
- To enable the growers to execute the technological practices on his farm

### **Training Methodology**

- Participatory training
- Discovery based learning through small experiments and exercises.
- Experiential learning
- Field work
- Interactive learning
- Sharing of experiences.
- Case studies.
- Inputs by Scientists/ Course co-ordinator

### **Management of FFS**

#### **• Facilitators**

The Facilitators who are trained through ToF programmes will be given responsibility to organize the Farmers Field Schools. Each facilitator will conduct two FFS simultaneously in a year.

#### **• Farmers' Fields:**

The basic requirement of experiential learning during FFS is Farmer's field. It is proposed here to identify the orchards at different growth stages so as to save time. One of the orchards may preferably be belonging to Progressive growers and the other rather poorly managed.

**Plan of Farmers Field Schools for Orange**

Sr. No.	District	No. of Tahsils having dominant area under Orange	No. of Facilitators	No. of FFS	No. of farmers
1	Nagpur	6	6	6	180
2	Wardha	3	3	3	90
3	Amaravati	8	8	8	240
4	Yavatmal	5	5	5	150
5	Akola	3	3	3	90
6	Vashim	2	2	2	60
7	Buldhana	3	3	3	90
		<b>30</b>	<b>30</b>	<b>30</b>	<b>900</b>

**List of Tahsils where FFS for Orange are proposed**

Sr. No.	Name of District	Name of Tahsil	Name of Facilitator
1	Nagpur	1. Katol	
		2. Saoner	
		3. Narkhed	
		4. Nagpur	
		5. Kondhali	
		6. Kalameshwar	
2	Wardha	1. Arvi	
		2. Ashti	
		3. Karanja	
	Amaravat	1. Warud	
		2. Morshi	

		3. Bhatkuli	
		4. Nandgaon Kh.	
		5. Chandur Rly.	
		6. Tiwasa	
		7. Chandur bazaar	
		8. Achalpur	
	<b>Yavatmal</b>	1. Yavatmal	
		2. Kalamb	
		3. Ralegaon	
		4. Darwaha	
		5. Arni	
	<b>Akola</b>	1. Akot	
		2. Patur	
		3. Murtijapur	
	<b>Washim</b>	1. Washim	
		2. Karanja	
	<b>Buldhana</b>	1. Jalgaon Jamod	
		2. Sangrampur	
		3. Shegaon	

## Farmers Field School Programme under National Horticulture Mission

### Curriculum For Farmers Field School (FFS) for Orange

FFS No.	Month	8.00–9.00 AM	9.00-10.00AM	10.00-10.15	10.15-10.30	10.30-11.30	11.30-12.30
FFS-1	June (First fort night)	Pre-programme discussion with farmers and village leaders about FFS and listing of 25 farmers.	Concept of FFS, objectives, benefits and Training methodology	Tea break	Group dynamic (Introduction by chain method)	1.Selection of field and farmers for new plantation 2.Selection of sick orchard and one healthy orchard for study	Visit to selected field with farmers.
FFS-2	June (Second fortnight)	Grouping of farmers in to 2 or 4 groups by animal sound and give them fruit crop name.	Analysis of problems faced by the farmers in fruit garden.	Tea break	B.B.T. (Ballot box test) pre-evaluation	Types of soils and ideal soils for fruit crop.	Drawing of soil sample for testing and discussion on report. Discussion varieties of sweet lime/orange.
FFS-3	July (First fort night)	1) Method of Plantation (Digging & filling of pit.) 2) AESA in old orchard	Drawing presentation & discussion Deficiency symptoms identification and remedy. (Practical spray )	Tea break	G.D. water bridge	Short term experiment “Root & Plant Vessels.” & Ill effects of pesticides on human health.	Special topic on different types of weeds and their management by different methods.
FFS-4	July (Second fort night)	AESA in Three orchards (New, old, healthy)	Drawing presentation & discussion	Tea break	G.D. Longest line	Short study on leaf minor & leaf roller.	Diseases of orange and their management.

<b>FFS No.</b>	<b>Month</b>	<b>8.00–9.00 AM</b>	<b>9.00-10.00AM</b>	<b>10.00-10.15</b>	<b>10.15-10.30</b>	<b>10.30-11.30</b>	<b>11.30-12.30</b>
FFS-5	Aug. (First fort night)	AESA in Three orchards (New, old, healthy)	Drawing presentation & discussion	Tea break	G.D. Balloon bursting	Short term expt. On water holding capacity.	Study on different methods of irrigation and their advantages & dis-advantages.
FFS-6	Aug. (Second fort night)	AESA in Three orchards (New, old, healthy)	Drawing presentation & discussion	Tea break	G.D. Whisper communication	Short study on NSKE and practical preparation	Discussion different type of Bahars in sweet orange and Hasta bahars.
FFS-7	Sept. (First fort night)	AESA in Three orchards (New, old, healthy)	Drawing presentation & discussion	Tea break	G.D. Drawing without pen.	Short study on Fruit Sucking moth.	Special discussion on drip irrigation.
FFS-8	Sept. (Second fort night)	AESA in Three orchards (New, old, healthy)	Drawing presentation & discussion	Tea break	G.D. Talat malat	Short study on citrus psylla and Aphid.	Discussion on Bio-fertilizer & bio-pesticides and their roll in plant ecosystem.
FFS-9	October (First fort night)	AESA in Three orchards (New, old, healthy)	Drawing presentation & discussion	Tea break	G.D. pen in bottle	Short term experiment - Seed germination	Study on types of pesticides and their mode of actions.
FFS-10	October (Second fort night)	AESA in Three orchards (New, old, healthy)	Drawing presentation & discussion	Tea break	G.D. Blind walk	Short study on citrus white & black fly.	Importance of growth hormones specially N.A.A.
FFS-11	November (first fort night)	AESA in Three orchards (New, old, healthy)	Drawing presentation & discussion	Tea break	G.D. Musical chair.	Short study on (Bark borer)	Discussion on insect zoo.
FFS-12	December (First fort night)	AESA in Three orchards (New, old, healthy)	Drawing presentation & discussion	Tea break	G.D. Three 'G'.	Short study on Earthworm	discussion on Vermi culture Vermicompost, Vermiwash etc.

<b>FFS No.</b>	<b>Month</b>	<b>8.00–9.00 AM</b>	<b>9.00-10.00AM</b>	<b>10.00-10.15</b>	<b>10.15-10.30</b>	<b>10.30-11.30</b>	<b>11.30-12.30</b>
FFS-13	December (Second fort night)	AESA in Three orchards (New, old, healthy)	Drawing presentation & discussion	Tea break	G.D. or Role Play.	Short study on Phytophthora disease.	Special practical on preparation of bordopaste & application
FFS-14	Jan. (First fort night)	AESA in Three orchards (New, old, healthy)	Drawing presentation & discussion	Tea break	G.D. what do you see?	Discussion on Ambiya Bahar.	Marketing, grading and handling of fruits.
FFS-15	Jan. (Second fort night)	AESA in Three orchards (New, old, healthy)	Drawing presentation & discussion	Tea break	G.D. or Role play	Short study on fruit fly.	Discussion on different types of traps, light trap and trap crop.
FFS-16	Feb. (First fort night)	AESA in Three orchards (New, old, healthy)	Drawing presentation & discussion	Tea break	G.D. Gibrish language	Short study on citrus mites. Nature of damage & management practices.	Discussion on fruit processing or visit to fruit processing unit.
FFS-12	December (First fort night)	AESA in Three orchards (New, old, healthy)	Drawing presentation & discussion	Tea break	G.D. Three 'G'.	Short study on Earthworm	Special discussion on Vermi culture Vermicompost, Vermi wash etc.
FFS-17	Feb. (Second fort night)	AESA in Three orchards (New, old, healthy)	Drawing presentation & discussion	Tea break	G.D. Tieing knot.	Short study on Jassids & thrips damage & management.	Diseases of citrus fruit crop and their management.
FFS-18	March (First fort night)	AESA in Three orchards (New, old, healthy)	Drawing presentation & discussion	Tea break	G.D. Show the psychology after loosing	Short study on mulching of fruit trees.	Intercultural operation & its importance.

					coins & water		
FFS-19	March (Second fort night)	AESA in Three orchards (New, old, healthy)	Drawing presentation & discussion	Tea break	G.D. Tower building	Pruning technique in old orchards.	Methods of protection of small plants by hot temperature.
FFS-20	April (First fort night)	AESA in Three orchards (New, old, healthy)	Drawing presentation & discussion	Tea break	G.D. Watch the face.	Short study on biopesticides viz. Tricoderma production.	Inter cropping in citrus viz. cowpea soyaben for conservation of friendly insects.
FFS-21 (Field day)	April (Second fort night)	Discussion on Bahar treatment for mrug bahar.	Review of FFS	FFS-21 (Field day)	Field day of FFS & Valedictory. Opinion of Farmers about FFS, suggestions etc.		

*Appendix I*  
**Model Calendar of Work**  
**Amaravati**

*Course Code: AMROT-01*

**Title: Phytophthora Control in Orange**

- Target group: Orange growers
- Duration: Two days
- Month: September - October
- Venue: District Training Center/ Agropolyclinic / KVK /ARS/ NRC/ SAU Farm/ Progressive Farmers' Orange orchard

**Objectives**

- To develop understanding about causes & symptoms of Phytophthora disease in Orange
- To develop knowledge & skill in pruning of decayed roots & dried branches
- To develop knowledge & skill in application of Redomil & Bordeaux paste

**Course Content**

- Symptoms of Phytophthora
- Causes of Phytophthora
- Pruning of shoots
- Digging of Beds
- Pruning of roots
- Drenching with Ridomeal
- Application of neem cake, biopesticide & biofertilizers
- Application of Bordeaux paste
- Drenching of Bordeaux Mixture
- Irrigation methods to prevent Phytophthora

**Training Plan**

<b>Session</b>	<b>Time (min.)</b>	<b>Topic</b>	<b>Training Method</b>	<b>Training Aids</b>	<b>Resource Person</b>	<b>Place</b>
	<i>Day I</i>					
	09.00-09.30	Registration, Inauguration	-	-	SDAO/ TAO/ TO	
	09.30-09.45	Icebreaking, Pre evaluation	-	-	Course Coordinator	Training Hall
I	09.45-10.45	Symptoms & Causes of Phytophthora	Interactive Lecture,	Chart, Photogra	Scientists from SAU,	Farm

			Demonstration	ph, CD/ Film	KVK	
	10.45- 11.00	Tea				
II	11.00- 13.00	Pruning of shoots	Demonstration	-	Master Trainer	Farm
	13.00- 13.30	Lunch				
III	13.30- 14.30	Digging of Beds	Demonstration, Hands on exercise	-	Master Trainer	Farm
IV	14.30- 15.30	Pruning of roots	Demonstration, Hands on exercise	-	Master trainer	Farm
	15.30- 15.45	Tea	-			
V	15.45- 16.45	Drenching with Ridomeal	Demonstration, Hands on exercise	-	Master trainer	Farm
VI	16.45- 17.30	Preparation of Bordeaux Paste (Soaking of ingradient)	Demonstration, Hands on exercise	-	Master trainer	Farm
	17.30	Consolidation of Learning			Course Coordinator	
	18.00	Close				
<b>Day 2</b>						
	09.00- 09.30	Recap of Day1	-	-	Course Coordinator	-
VII	09.30- 10.45	Preparation of Bordeaux Paste & B. Mixture	Demonstration, Hands on exercise	-	Master trainer	Farm
	10.45- 11.00	Tea				
VIII	11.00- 13.00	Application of Bordeaux Paste to stem	Demonstration, Hands on exercise	-	Master trainer	Farm
	13.00- 13.30	Lunch				
IX	13.30- 14.30	Application of neem cake, biopesticide & biofertilizers covering the roots	Demonstration, Hands on exercise	-	Master trainer	Farm
X	14.30- 15.30	Drenching of Bordeaux Mixture to root zone	Demonstration, Hands on exercise	-	Master trainer	Farm
	15.30- 15.45	Tea				
XI	15.45-	Irrigation Methods to	Demonstration,	-	Master trainer	Farm

	17.00	prevent Phytophthora				
	17.00-17.15	Course Evaluation	-	-	Course Coordinator	-
	17.15-17.30	Concluding	-	-	SDAO/ TAO/ TO	-

- Training Material required: Implements for digging of beds, sand paper to scrap the gum, water, wooden stick, copper sulphate, lime, neem cake, biopesticide (Trichoderma spp.) biofertilizers(PSB) litmus paper, etc.

### **Course Code: AMROT-03**

#### **Title: Rejuvenation of Declined Orchards**

- Target group: Orange growers who have applied for rejuvenation
- Duration: One day
- Month: September to December
- Venue: District Training Center/ Agropolyclinic / KVK / Progressive Farmers' Old Orange orchard

#### **Objectives**

- To develop knowledge and skill in effective pruning of Orange trees
- To motivate farmers to adopt rejuvenation practices for old gardens

#### **Course Content**

- Pruning
- Application of fertilizers
- Plant protection
- Preparation of Bordeaux Paste & use
- Time of pruning

#### **Training Plan**

<b>Session</b>	<b>Time (min.)</b>	<b>Topic</b>	<b>Training Method</b>	<b>Training Aids</b>	<b>Resource Person</b>	<b>Place</b>
	09.00-09.30	Registration, Inauguration	-	-	SDAO/ TAO/ TO	
	09.30-09.45	Icebreaking, Pre evaluation	-	-	Course Coordinator	Training Hall
I	09.45-10.45	Need for Rejuvenation	Interactive Lecture, Demonstration	Chart, Photograph, CD/ Film	Scientists from SAU, KVK	Training Hall
	10.45-11.00	Tea				
II	11.00-13.00	Pruning Technology	Demonstration	-	Master Trainer	Field

	13.00-13.30	Lunch				
III	13.30-14.30	Application of Fertilizers	Demonstration, Hands on exercise	-	Master Trainer	Field
IV	14.30-15.30	Application of Fertilizers	Demonstration, Hands on exercise	-	Master Trainer	Field
	15.30-15.45	Tea	-			
V	15.45-16.45	Preparation of Bordeaux Paste	Demonstration	-	Master Trainer	Field
VI	16.45-17.30	Application of Bordeaux Paste	Demonstration, Hands on exercise	-	Master Trainer	Field
	17.30-17.45	Course Evaluation	-	-	Course Coordinator	-
	17.45-18.00	Concluding	-	-	SDAO/TAO/ TO	-

- **Training Material:** Secator, saw, fertilizer, CuSo<sub>4</sub>, Lime, Brush, water etc.

*Appendix II*

Proforma I

(To be filled in by trainee before start)

**Pre training Evaluation**

- Title of the course \_\_\_\_\_
- Duration \_\_\_\_\_, Period \_\_\_\_\_
- Name of Trainee \_\_\_\_\_, Village \_\_\_\_\_
- Age \_\_\_\_\_, Education \_\_\_\_\_,
- Experience in Training \_\_\_\_\_, Land Holding \_\_\_\_\_
- Address: - \_\_\_\_\_

1. Practicewise Knowledge, Skill and Adoption

Sr. No.	Practice/ Subject to be covered in training	Knowledge			Skill			Adoption Yes/ No
		1	2	3	1	2	3	

(Note: 1-Low, 2-Moderate, 3- High)

2. Immediate needs of training with regard to subject to be taught

\_\_\_\_\_

\_\_\_\_\_

3. Expectations from the training course

\_\_\_\_\_

\_\_\_\_\_

**Signature**

## Proforma II

(To be filled in after training)  
**Post Training Evaluation**

- Title of Course \_\_\_\_\_
- Period \_\_\_\_\_
- Name of Trainee \_\_\_\_\_

Coverage and utility of training contents.

Sr. No.	Subject Taught	Practical utility			Coverage		
		MU	U	NU	WC	PC	NC

(MU- Most Useful, U- Useful, NU- Not useful  
WC- Well Covered, PC- Partially Covered, NC- Not Covered)

### Opinion about auxiliary aspects

**Lodging - Satisfactory / Unsatisfactory**

Boarding - Satisfactory / Unsatisfactory

Transport- Satisfactory / Unsatisfactory

Classroom teaching- Satisfactory / Unsatisfactory

Use of AV Aids- Satisfactory / Unsatisfactory

Reading material- Satisfactory / Unsatisfactory

Conduct of Demo/practical/Field visits- Satisfactory /  
Unsatisfactory

Punctuality in conducting programme- Punctual/ Unpunctual

Suggestions for future

Signature

*Appendix III*

**List of Resource Persons for Training Programme for Farmers under  
NHM in Maharashtra**

**A. Vidarbha Region**

Sr. No.	Name of Resource Person	Specilisation	Contact	Phone/Mobile
1.	Dr. P. P. Deshmukh	Horticulture	Former HOD, Hort. PDKV, Akola	
2.	Dr. L. V. Kulwal	Horticulture	Former DOR, PDKV, Girinagar Akola 9422938086	9422938086
3.	Dr. M. M. Damke	Fruits & Vegetable	A. D., A.C, Nagpur	0712-2560059 2651200 2634737
4.	Dr. V. K. Mahorkar	Floriculture	A.D. Hort. College, PDKV, Akola	0724-2258508
5.	Dr. S. N. Ingle	Soil Sc., Fertilizers	HOD, Soil Sc. PDKV, Akola	0724-2259172
6.	Dr. N. D. Jogadand	Grapes, Fruits & Vegetable	HOD, HORT. PDKV, Akola	0724-2258722 9970070947
7.	Dr. V. B. Dalvi	Soil Water Cons.	HOD, Soil Water Cons. PDKV, Akola	0724-2458269
8.	Prof. S.S. Hiwase	Irrgn Drainage	HOD, Irrgn & Dranage, PDKV, Akola	0724-2450257
9.	Prof P. B. Ghode	Fruits, Vegetables	AICC,Citrus, Akola	0724-2458414
10.	Dr. S. M. Bhoyar	Agroprocessing	PDKV, Akola	0724-2258213- 1143
11.	Prof, V. J. Kawarkhe	Vegetables	In charge, Park & garden, PDKV, Akola	0724-2258414
12.	Dr. V.S. Gonge	Vegetables & Fruits	Hort. PDKV, Akola	0724-2258213- 1141
13.	Prof. M. S. Gawade	Nursery, PHT	PDKV, Akola	0724-2258508- 1149
14.	Dr. S. G. Wankhede	Medicinal & Aromatic Plants	SRS, Med. Plants PDKV, Akola	0724-2456552- 1149
15.	Prof. P.A.Borkar	PHT	PDKV, Akola	

16.	Dr. V.R. Zade	Fruits	In charge, FRS, Katol	07112-223679 227166
17.	Dr. P.K. Nagare	Floriculture	Asso. prof. PDKV, Akola	0724-2258214- 1141
18.	Dr. S.J. Bharad	Dryland fruits	A. P. Hort. PDKV, Akola	9970070945
19.	Dr. V. B. Raut	PHT,	PDKV, Akola	0724-2258213- 1029
20.	Dr. H.V. Ingle	Fruits	T.O., NHM, Akola	0724-2401460
21.	Shri B. M. Rakhonde	Vegetable, fruits & flowers	Asst. Prof PDKV, Akola	0724-2258214- 1141
22.	Shri Sham Gattani	Custard Apple	Gattani Krishi Seva Kendra, Mehekar	
23.	Shri R. B. Ulemale	Organic Farming	Ext.Agronomi st PDKV, Akola	0724-2451631 2258174
24.	All Master Trainers in Horticulture developed by Deptt. of Agril, Maharashtra			

*Appendix IV*  
**List of Agriculture Research Stations and Krishi Vigyan Kendras (KVK) in  
Vidarbha**

<b>Sr. No.</b>	<b>Name and Address of Research Station</b>	<b>Contact No.</b>
1	Director, Central Research Station PDKV, Akola	(0724) 2258119
2	Assistant Director, Div. Agri. Res. Station, Vaghapur Road, Yavatmal	(07232) 241745 248235 (Fax)
3	Asst. Dir., Regional Agri. Res. Station, Sindewahi, Dist. Chandrapur	(07178) 288225
4	Asst. Prof., (Hort.) Agri. Res. Station, Mul Road, Sonapur, Dist. Gadchiroli	(07132) 222621
5	Horticulturist, Regional Fruit Res. Station, Katol, Dist. Nagpur-441302	(07112) 227166
6	Programme Co-ordinator, KVK, c/o Regional Agri. Res. Station, Vaghapur Road, Yavatmal	(07232) 241745
7	Prog. Co-ordinator, KVK, Selsura, Tal. Devli, Dist. Wardha	(07152) 287085
8	Prog. Co-ordinator, KVK, c/o Regional Agri. Res. Station, Sindewahi, Dist. Chandrapur	(07178) 288071, 288225
9	Prog. Co-ordinator, KVK c/o Agri. Res. Station, Sakoli Dist. Bhandara	(07186) 236343
10	Prog. Co-ordinator, KVK, c/o Agri. College, Stay- Hivara, Post-Ratnara, Tal. Dist. Gondia	(07182) 280113
11	Prog. Co-ordinator, KVK, c/o Agri. Res. Station, Sonapur, Dist. Gadchiroli	(07132) 232621
12	Prog. Co-ordinator, Dyaneshvar KVK, Ghatkhed Tal. Chandur Railway Dist. Amaravati	(07221) 27070 (0721) 2662405
13	Prog. Co-ordinator, KVK, Durgapur (Badnera) Dist. Amaravati	(0721) 281560
14	Prog. Co-ordinator, KVK, Jalgaon (Jamod) Dist. Buldhana	(07266) 221620
15	Prog. Co-ordinator, KVK, Karda Tal.-Risod, Dist. Washim	(07251) 226503 222260
16	Incharge, Beetlevine Res. Station, Ramtek, Dist. Nagpur-441106	
17	Incharge, Beetlevine Research Station, Divthana, Tal. Akot, Dist. Akola	

Appendix V

**List of Agropolyclinics & District Training Centers In Vidarbha**

<b>Sr. No</b>	<b>District</b>	<b>Agropolyclinic</b>
1	Buldhana	1 Shegaon
		2 Shelapur
		3 Devulgaon mahi
		4 Pimpalgaon raja
		5 Sindkhedraja
		6 Malkapur
		7 Nindurbar
		8 Buldhana
		9 Selasura
		10 Varanvad
		11 Asalgaon
2	Akola	1 Gadegaon
		2 Alanda
		3 Shirso
		4 Boregaon
		5 Vadali
		6 Babulkheda
		7 Shirla
3	Washim	1 Malegaon
		2 Vada
		3 Vitholi
		4 Karanja
		5 Vanoja
4	Amaravati	1 Tivasa
		2 Dhanoragurav
		3 Kusumkot
		4 Chandurrailway
		5 Anjangaon
		6 Paratvada
		7 Amaravati
		8 Yerla
		9 Umarkhed
		10 Chandurbajara
5	Yavatmal	1 Nandura
		2 Bailkhed
		3 Darvha
		4 Pandharkavada
		5 Kalamb
		6 Ghatanji
		7 Varud
		8 Nimbala
		9 Sonvadhona
		10 Yavatmal

6	Wardha	1	Selu
		2	Jam
		3	Talegaon
		4	Selasura
		5	Virul
		6	Nachangaon
		7	Pohana
7	Nagpur	1	Gondkheri
		2	Bhendala
		3	Dumari
		4	Dhivarvadi
		5	Kadimbag
		6	Hivarabajar
		7	Narkhed
		8	Bhojpur
		9	Marodi
		10	Mokhada
8	Gondia	1	Amgaon
		2	Devari
		3	Karanja
		4	Hivara
9	Chandrapur	1	Chandrapur
		2	Maldongari
		3	Vyahad
		4	Akarjuna
		5	Malevada
		6	Chunala
		7	Vithalvada
10	Gadchiroli	1	Sonapur
		2	Krushananagar
		3	Sironcha
		4	Ramgad
		5	Kasansur

**List of Resource Persons for Training Programme  
for Farmers under NHM in Maharashtra**

**Suicide Prone Districts in Vidarbha Region**

<b>Sr. No.</b>	<b>Name of Resource Person</b>	<b>Specilisation</b>	<b>Contact</b>
1.	Dr. P. P. Deshmukh	Horticulture	Former HOD, Hort. PDKV, Akola
2.	Dr. L. V. Kulwal	Horticulture	Former DOR, PDKV, Girinagar Akola 9422938086
3.	Dr. M. M. Damke	Fruits & Vegeteble	A. D., A.C, Nagpur
4.	Dr. V. K. Mahorkar	Floriculture	A.D. Hort. College, PDKV, Akola
5.	Dr. S. N. Ingle	Soil Sc., Fertilizers	HOD, Soil Sc. PDKV, Akola
6.	Dr. N. D. Jogadand	Grapes, Fruits & Vegetable	HOD, HORT. PDKV, Akola
7.	Dr. V. B. Dalvi	Soil Water Cons.	HOD, Soil Water Cons. PDKV, Akola
8.	Prof. S.S. Hiwase	Irrgn Drainage	HOD, Irrgn & Dranage, PDKV, Akola
9.	Prof P. B. Ghode	Fruits, Vegetables	AICC, Citrus, Akola
10.	Dr. S. M. Bhoyar	Agroprocessing	PDKV, Akola
11.	Prof, V. J. Kawarkhe	Vegetables	In charge, Park & garden, PDKV, Akola
12.	Dr. V.S. Gonge	Vegetables & Fruits	Hort. PDKV, Akola
13.	Prof. M. S. Gawade	Nursery, PHT	PDKV, Akola
14.	Dr. S. G. Wankhede	Medicinal & Aromatic Plants	SRS, Med. Plants PDKV, Akola
15.	Prof. P.A.Borkar	PHT	PDKV, Akola
16.	Dr. V.R. Zade	Fruits	In charge, FRS, Katol
17.	Dr. P.K. Nagare	Floriculture	Asso. prof. PDKV, Akola
18.	Dr. S.J. Bharad	Dryland fruits	A. P. Hort. PDKV, Akola
19.	Dr. V. B. Raut	PHT,	PDKV, Akola
20.	Dr. H.V. Ingle	Fruits	T.O., NHM, Akola
21.	Shri B. M. Rakhonde	Vegetable, fruits & flowers	Asst. Prof PDKV, Akola
22.	Shri Sham Gattani	Custard Apple	Gattani Krishi Seva Kendra, Mehekar
23.	Shri R. B. Ulemale	Organic Farming	Ext. Agronomist PDKV, Akola
24.	All Master Trainers in Horticulture developed by Deptt. of Agril, Maharashtra		