

21HORT182 PRODUCTION TECHNOLOGY OF FRUITS AND PLANTATION CROPS

Hours Per Week :

L	T	P	C
1	-	2	2

Total Hours :

L	T	P
15	-	30

Course Description and Objectives:

This course provides knowledge on the production technology of various fruit and plantation crops in diverse environments

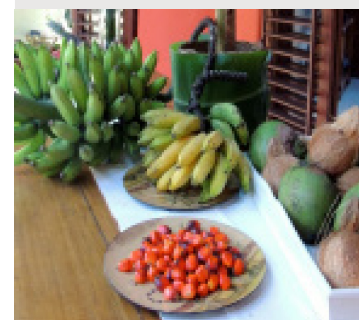
Course Outcomes:

Upon completion of the course, the student will be able to achieve the following outcomes:

COs	Course Outcomes
1	Gain knowledge on the production technologies of major and minor fruit crops and plantation crops and capacity to empower the farmer with latest production technologies
2	Practice and promote the production of fruits and plantation crops in his / her own and other farms

SKILLS:

- ✓ *Design plan to establish nursery of fruits and plantation crops*
- ✓ *Practice propagation techniques in fruits and plantation crops*
- ✓ *Manage fruit and plantation crops under field conditions*



Source :

<http://nirvanabeachhotelbahiabr.weebly.com/fruit-plantation-and-bird-sanctuary.html>

ACTIVITIES:

- o Visit to commercial orchard and nursery of fruits and plantation crops
- o Demonstrate different propagation techniques of fruits and plantation crops
- o Draw the pictures of different fruits and plantation crops
- o Prepare layout for the establishment of nursery of fruits and plantation crops

UNIT - 1

Introduction: Importance and scope of fruit and plantation crop industry in India Production technologies for the cultivation

UNIT - 2

Production Technologies: Production technologies for the cultivation of major fruits-Mango, Banana, Citrus, Grape, Guava & Litchi

UNIT - 3

Production Technologies: Production technologies for the cultivation of major fruits. Papaya, Apple, Pear, Peach, Minor fruits - Pineapple, Pomegranate, Jackfruit

UNIT - 4

Production Technologies: Production technologies for the cultivation of major fruits Strawberry, Nut crops (Almond & Walnut)

UNIT - 5

Production Technologies: Production technologies for the cultivation of major fruits, Plantation crops-Coconut, Areca nut, Cashew, Tea, Coffee & Rubber

LABORATORY EXPERIMENTS**LIST OF EXPERIMENTS**

1. Seed propagation-Scarification and stratification of seeds
2. Propagation methods for fruit crops
3. Propagation methods for plantation crops
4. Micro-propagation
5. Description and identification of fruit crops
6. Preparation of plant bio regulators and their uses
7. Pests and diseases of Mango, Banana, Citrus
8. Pests and diseases of Grape, Papaya, guava
9. Pests and diseases of Apple, Pear, Peach
10. Pests and diseases of Pineapple, Pomegranate, Jackfruit
11. Pests and diseases of Coconut, Arecanut
12. Pests and diseases of Cashew, Rubbe
13. Pests and diseases of Coffee and Tea
14. Physiological disorders of fruit crops – Mango, Citrus, Grape and plantation crops
15. Visit to commercial plantations/ fruit orchards

REFERENCES:

1. Bose, T.K. and Mitra, S.K. 1990. *Fruits – Tropical and Sub-tropical*. Naya Prakashan, Calcutta
2. Chattopadhyaya, P. K. 2012. *Text Book on Pomology (Fundamentals of Fruit Growing)*. Kalyani Publishers, Ludhiana
3. Bijendra Singh. 2012. *Horticulture at a Glance*. Kalyani Publishers, Ludhiana
4. Parthasarathy, V. A., Chattopadhyay P.K. and Bose, T.K. 2006. *Plantation Crops*. Vol I and II. Parthasankar basu Naya Udyog, Kolkata
5. Kumar, N. Abdul Khader, J.B.M, Rangaswamy, P. and Irulappan, I. 2004. *Introduction to spices, plantation crops, medicinal and aromatic crops*. Oxford and IBH publishing Co, New Delhi

