

HORT 181 - PRODUCTION TECHNOLOGY OF FRUIT CROPS (2+1)

1. Scope and importance of fruit cultivation, nutritional, commercial, industrial and medicinal importance of fruit crops
2. Fruit production scenario, state and national level, impact and economic trend with emphasis to export
3. Classification of fruits based on climatic requirements, horticultural and botanical classification
4. Mango – soil, climate, planting, high density planting, nutrient and water management, intercropping, off-season production
5. Mango- major problems, physiological disorders, pests and diseases and integrated management practices
6. Banana – soil, climate, planting, High Density Planting, nutrient and water management, inter cultural special operations
7. Banana – major production constraints – physiological disorders, pests and diseases and integrated management practices
8. Citrus - classification, soil, climate, varieties, planting, nutrient and water management, intercultural operations
9. Citrus – nutrient deficiencies, corrective measures, physiological disorders, pests and diseases and integrated management practices.
10. Grapes – soil, climate, varieties, nutrient and water management, inter cultural operations
11. Grapes – nutrient disorders, corrective measures, growth regulators, physiological disorders, pests and diseases and management practices
12. Papaya – soil, climate, water and nutrient management, papain extraction, uses, pests and diseases management
13. Sapota – soil, climate, nutrient and water management, specific problems and corrective measures
14. Guava – soil, climate, irrigation and nutrient management, nutrient deficiencies, physiological disorders, pests and diseases, management practices
15. Pine apple – soil, climate, planting, High Density Planting, nutrient and water management, special cultural operations, pests and diseases and management practices

16. Jack - soil, climate, planting, high density planting, nutrient and water management, special cultural operations, pests and diseases, management practices
17. Pomegranate - soil, climate, planting, varieties, nutrient and water management, special cultural operations, physiological disorders, pests and diseases, management practices
18. Custard apple - soil, climate, planting, varieties , nutrient and water management, special cultural operations, physiological disorders, pests and diseases, management practices
19. Ber and Jamun - soil, climate, planting, varieties, nutrient and water management, special cultural operations, physiological disorders, pests and diseases, management practices
20. Amla - soil, climate, planting, varieties, nutrient and water management, special cultural operations, physiological disorders, pests and diseases, management practices
21. Wood apple and Bael - soil, climate, planting, varieties, nutrient and water management, special cultural operations, physiological disorders, pests and diseases, management practices
22. Date palm - soil, climate, planting, varieties, nutrient and water management, special cultural operations, physiological disorders, pests and diseases, management practices
23. Subtropical fruits - Mangosteen - soil, climate, planting, varieties, nutrient and water management, special cultural operations, physiological disorders, pests and diseases, management practices
24. Fig - soil, climate, planting, varieties, nutrient and water management, special cultural operations, physiological disorders, pests and diseases, management practices
25. Litchi - soil, climate, planting, varieties, nutrient and water management, special cultural operations, physiological disorders, pests and diseases, management practices.
26. Avocado - soil, climate, planting, races, varieties, flowering behaviour, nutrient and water management, special cultural operations, physiological disorders, pests and diseases, management practices

27. Durian and Carambola - soil, climate, planting, varieties, nutrient and water management, special cultural operations, physiological disorders, pests and diseases, management practices
28. Rambutan and Longan - soil, climate, planting, varieties, nutrient and water management, special cultural operations, physiological disorders, pests and diseases, management practices
29. Apple - soil, climate, planting, high density planting, varieties, nutrient and water management
30. Apple - special cultural operations, physiological disorders, pests and diseases, management practices
31. Pear - soil, climate, planting, varieties, nutrient and water management, special cultural operations, physiological disorders, pests and diseases, management practices
32. Plums and Prunes - soil, climate, planting, varieties, nutrient and water management, special cultural operations, physiological disorders, pests and diseases, management practices
33. Peach and Nectarines - soil, climate, planting, varieties, nutrient and water management, special cultural operations, physiological disorders, pests and diseases, management practices

References

1. Veeraragavathatham, D., Jawaharlal, M., Jeeva, S., Rabindran, R and Umapathy, G. 2004 (2nd edition). Scientific fruit culture. Published by M/s. Suri associates, 1362/4, Velraj Vihar Complex, Thadagam Road, Coimbatore- 2
2. Chattopadhyay, 1998. A textbook on pomology (sub-tropical fruits) vol.III. Published by M/s. Kalyani publishers, Ludhiana, New Delhi, Noida. UP.
3. Bose, T.K., S.K. Mitra and D. Sanyal 2001, Fruits : Tropical and Subtropical (2 volumes) Naya Udyog, Calcutta.
4. Bose, T.K., S.K.Mitra, A.A. Farooqi and M.K. Sadhu (Eds) 1999. Tropical Horticulture Vol.1. Naya Prokash, Calcutta.
5. Chadha, K.L. 2001. Handbook of Horticulture. ICAR, Delhi
6. Chattopadhyay, T.K., 2001. A Text Book on Pomology (4 volumes). Kalyani Publishers, Ludhiana.
7. Kumar, N. 1997. Introduction to Horticulture. Rajalakshmi Publications,

Nagercoil, Tamil Nadu.

8. Mitra, S.K., T.K. Bose and D.S. Rathore. 1991. Temperate fruits. Horticulture and allied Publishers, Calcutta.
9. Pal, J.S. 1997. Fruit Growing. Kalyani Publishers, New Delhi.
10. Sadhu, M.K. and P.K. Chattopadhyay. 2001. Introductory Fruit Crops. Naya Prokash, Calcutta.
11. Singh, S.P. 1995. Commercial Fruits. Kalyani Publishers, Ludhiana