

AGX6387 Plantation Crop Technology

Level	6
Course Code	AGX6487
Course Title	Plantation Crop Technology
Credit value	3
Core/Optional	Optional (Agriculture)
Course Aim/s	To provide comprehensive knowledge on cultivation and management of tea, rubber and coconut plantations
Course Learning Outcomes (CLO):	<p>At the completion of this course student will be able to</p> <p>CLO1: Describe the taxonomy, morphology and climatic requirement for tea, rubber and coconut [PLO1][PLO2]</p> <p>CLO2: Realize the importance of clones as well as their breeding and selection for commercial plantations. [PLO2][PLO3][PLO4]</p> <p>CLO3: Recognize planting techniques and management strategies of immature plantations of tea, rubber and coconut. [PLO2][PLO3][PLO4][PLO5]</p> <p>CLO4: Describe pests and diseases incidences in tea, rubber and coconut with their control measures. [PLO1] [PLO2]PLO3][PLO4]</p> <p>CLO5: Recommend yield improvement techniques for mature plantations of tea, rubber and coconut.[PLO9] [PLO10] [PLO11] [PLO12]</p> <p>CLO6: Establish and maintain plantations of tea, rubber and coconut. [PLO11] [PLO12]</p>
Content (Main topics, sub topics)	<p>Outline syllabus:</p> <p>Unit 1: Tea Cultivation</p> <p>Session 1 : Introduction to Tea Cultivation</p> <p>Session 2:Climatic Conditions of Tea</p> <p>Session 3:Planting Materials</p> <p>Session 4:Nursery and Nursery Practices in Tea</p> <p>Session 5: Land Preparation</p> <p>Session 6: Pruning of Tea</p> <p>Session 7: Harvesting/Plucking of Tea</p> <p>Session 8: Fertilizer used in Tea</p> <p>Session 9: Weeds Management in Tea</p> <p>Session 10: Pest and Diseases in Tea</p> <p>Session 11: Yield Improvement in Tea Plantations</p> <p>Unit 2: Rubber Cultivation</p> <p>Session 12: Introduction to Rubber Cultivation</p> <p>Session 13: Management of Rootstock and Budwood Nurseries</p> <p>Session 14 : Bud - grafting Techniques and types of Planting material</p> <p>Session 15: Establishment and Management of Rubber Plantation</p> <p>Session 16: Rubber growing soils and Fertilizer Recommendation</p> <p>Session 17:Anatomy and Physiology of Rubber Latex</p> <p>Session 18:Harvesting/Tapping</p> <p>Session 19:Yield improvement in Rubber Plantations</p>

Unit 3: Coconut Cultivation

Session 20: Introduction to Coconut Cultivation

Session 21: Climate and Soil requirement for Coconut palm

Session 22: Coconut varieties and Recommended cultivars in Sri Lanka

Session 23 : Establishment and Management of Coconut Nurseries

Session 24: Establishment and Management of Immature Coconut Plantation

Session 25 : Management of Mature Coconut Plantation

Session 26 : Fertilizer Management in Coconut

Session 27 (S27): Pest and Disease Management in Coconut Plantation

Laboratory classes:

1. Field visit
2. Mini Project