

AGX5376 Crop Processing

Level	5
Course Code	AGX5376
Course Title	Crop Processing
Credit value	3
Core/Optional	Optional
Course Aim/s	To Provide knowledge on processing technologies for product development and quality improvement of major export and cash crops.
Course Learning Outcomes (CLO):	<p>At the completion of this course student will be able to:</p> <p>CLO1: Explain crop processing technologies for quality improvements in finished export crop products. [PLO1] [PLO2]</p> <p>CLO2: Identify different tea grades visually. [PLO1] [PLO2]</p> <p>CLO3: Explain the processing and value addition of various cash crops. [PLO1] [PLO11][PLO12]</p> <p>CLO4: Evaluate ideal processing technologies for value addition of tea, rubber and coconut [PLO3] [PLO4][PLO11][PLO12]</p>
Content (Main topics, sub topics)	<p>Outline Syllabus:</p> <p>Unit 1: Processing of major Export Crops</p> <p> Session 1: Introduction to crop processing, basic considerations and methods</p> <p> Session 2: Processing of black tea -Plucking and withering of tea leaves</p> <p> Session 3: Rolling, Fermentation and Drying of tea leaves</p> <p> Session 4: Sorting, Grading and Packaging of tea</p> <p> Session 5: Field operations of Rubber</p> <p> Session 6: Crepe rubber production</p> <p> Session 7: Ribbed smoked sheets production</p> <p> Session 8: Processing of centrifuge latex and technically specified rubber</p> <p> Session 9: Production of coconut oil, vinegar, coconut milk powder and desiccated coconut</p> <p> Session 10: Production of Copra coconut fiber related products and activated carbon</p>

Unit 2: processing of other cash crops

Session 11: Processing of Pepper

Session 12: Processing of Clove and Cardamom

Session 13: Processing of Cinnamon, Nutmeg, Mace and Ginger

Session 14: Processing of Coffee and Cocoa

Session 15: Processing of Cashew processing

Session 16: Processing and value addition of Vegetables and Fruits

Session 17: Extraction of oil from vegetables and other crops

Session 18: Processing of Sugarcane

Session 19: Processing of Potato, Cassava and Sweet Potato

Field work :Yes

Field Visit to export crop processing factory or cash crop processing factory and expected to produce a project report with the details of processing methods, value addition, quality assurance , human resource and other management practices