

AGI3552 Crop Production Technologies

<b>Level</b>	3
<b>Course Code</b>	AGI3552
<b>Course Title</b>	Crop Production Technologies
<b>Credit value</b>	5
<b>Core/Optional</b>	Core(Agriculture)
<b>Course Aim/s</b>	To provide basic principles and practices on crop production
<b>Course Learning Outcomes (CLO):</b>	<p>At the completion of this course student will be able to:</p> <p>CLO1: Describe the environmental factors in relation to crop production [PLO1]  CLO2: Identify relevant resources and prepare an activity plan for land preparation to suit different agricultural crops[PLO1][PLO2][PLO3]  CLO3: Recognize relevant agronomic, cultivation and management aspects of different agricultural crops grown in Sri Lanka[PLO3][PLO4].  CLO4: Demonstrate the knowledge on different fertility regenerating systems in order to achieve sustainable farming[PLO4][PLO5].  CLO5: Integrate skills, facts, concepts and principles to address real world problems in crop production and management[PLO4][PLO5][PLO9][PLO10]  CLO6: Recommend appropriate cropping systems and seedbed preparation techniques to establish a commercial farm[PLO11][PLO12].</p>
<b>Content (Main topics, sub topics)</b>	<p><b>Outline Syllabus:</b></p> <p>Unit 1: Introduction to Crop Production  Session 1: Fundamentals of agronomy  Session 2 Impact of climate on crop production  Session 3 : Importance of soil in relation to plant growth  Session 4: Nutrient management in soil  Session 5: Land preparation and tillage  Session 6 :Types of tillage operations  Session 7: Plant propagation techniques  Session 8 : Nursery management</p> <p>Unit 2: Farming Systems  Session 09: Introduction to farming systems  Session 10: Methods of cropping  Session 11: Dry farming  Session 12: Fertility regenerating systems  Session 13: Management aspects of stable farming systems  Session 14: Fundamentals of organic farming  Session 15: Introduction to Hydroponics</p> <p>Unit 3: Cultivation and Management of Vegetables  Session 16: Introduction to vegetable cultivation in Sri Lanka  Session 17: Cultivation and management of Solanaceous vegetables  Session 18: Cultivation and management of Root vegetables  Session 19: Cultivation and management of Grain legumes  Session 20: Cultivation and management of Cole crops  Session 21: Cultivation and management of Bulb crops  Session 22: Cultivation and management of Cucurbit crops  Session 23: Cultivation and management of Tuber crops  Session 24: Cultivation and management of Leafy vegetables</p>

	<p>Session 25: Common insects and pests management in vegetables  Session 26: Disease management in vegetables  Session 27: Weed management in vegetables  Unit 4: Plantation Crops  Session 28 : Cultivation and management of Spice crops  Session 29 : Cultivation and management of Beverage crops  Session 30 : Cultivation and management of paddy  Session 31 : Introduction to Tea cultivation and management  Session 32 : Introduction to Rubber cultivation and management  Session 33 : Introduction to Coconut cultivation and management  Session 34 : Crop improvement techniques</p> <p><b>Laboratory work: yes</b></p> <ol style="list-style-type: none"> <li>1. Field practical on cultivation and management of crops</li> <li>2. Preparation of simple hydroponic system to recognize the basic requirements and techniques used in soilless culture.</li> <li>3. Identification of plant specimens which can be used for different farming systems and fertility regenerating systems (special reference to their varietal characteristics)</li> </ol>
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