

AGX5415 Horticulture and Landscaping Technology

Level	5
Course Code	AGX5415
Course Title	Horticulture and Landscaping Technology
Credit value	4
Core/Optional	Optional (Agriculture)
Course Aim/s	To provide comprehensive knowledge on landscaping with applied horticulture to undertake landscape designs and management.
Course Learning Outcomes (CLO):	<p>At the completion of this course student will be able to</p> <p>CLO1: To identify the elements of a landscape design. [PLO1]</p> <p>CLO2: To demonstrate the knowledge on basic theories and principles of landscaping [PLO1] [PLO2]</p> <p>CLO3: To exemplify various visualization techniques in landscape designing process [PLO2] [PLO3][PLO4]</p> <p>CLO4: To recognize different garden styles and their special characteristics for creating a unique landscape design[PLO4] [PLO5][PLO9]</p> <p>CLO5: To explain the basic requirements and techniques used in soil less culture and commercial horticulture. [PLO9] [PLO11]</p> <p>CLO6: To practice free hand sketching as well software tools in landscape designing process [PLO11] [PLO12]</p>
Content (Main topics, sub topics)	<p>Unit 1: Theories and Principles of Landscaping</p> <p>Session 1 : Introduction to Landscape Horticulture</p> <p>Session 2 : Identify the Elements of Landscaping</p> <p>Session 3 : Principles of Landscaping</p> <p>Session 4 : Landscape Planning</p> <p>Session 5: The Design Process</p> <p>Session 6: Garden designs and styles</p> <p>Session 7: Landscaping for different purposes – Garden Designs</p> <p>Unit 2: Landscaping</p> <p>Session 8 : Horticultural Elements – Soft Landscape Material</p> <p>Session 9 : Plants for Landscaping I - Trees</p> <p>Session 10: Plants for Landscaping II –Hedge Plants/Shrubs</p> <p>Session 11: Plants for Landscaping III – Herbaceous Ornamental Plants and Vines</p> <p>Session 12: Hard Landscape Materials and their Applications</p> <p>Session 13: Lawn – Establishment and Maintenance</p> <p>Session 14: Propagation techniques of Landscape Plants</p> <p>Session 15: Pruning techniques of Landscape Plants</p> <p>Session 16: Maintenance of a Landscape Garden</p> <p>Unit 3: Commercial Horticulture</p> <p>Session 17 : Horticultural Plant Growth Environment</p> <p>Session 18: Introduction to Floriculture</p> <p>session 19): Introduction to Olericulture</p> <p>Session 20: Introduction to Fruit culture/ Pomology</p> <p>Session 21: Control Environment in Horticulture</p> <p>Session 22: Greenhouse Operations</p> <p>Session 23: Plant Growth regulators used in Commercial Horticulture</p> <p>Session 24: Plant Nutrients and Fertilizer Application</p> <p>Session 25: Protecting Horticultural Plants I – Pest and Disease Management</p> <p>Session 26: Protecting Horticultural Plants II – Weed Management</p> <p>Session 27: Commercial Nursery Management</p>

Session 28: Hydroponics/Soil less Culture

Laboratory work: Yes

Site analysis and prepare a field layout for landscaping

Field visit : Yes

Field visit to a botanical garden/commercial horticulture site to observe garden styles, identification of landscape components and management practices involved in commercial horticulture