

Course Code	BYU 5609					
Level	05					
Course Title	Horticulture					
Credit value	06					
Core/Optional	Optional					
Prerequisites	None					
Hourly breakdown	Theory		Practical	Independent Learning	Assessment	Total
	(40 Sessions) ie 2 x 40 80 hrs	(4 DSs) ie 3x 4 12 hrs	(3 days Lab) ie 6 x 3 <i>Field visit (1 Day)</i> ie 6 x 1 24 hrs	<ul style="list-style-type: none"> Sessions (3 x 40) Online [25hrs] + recommended readings [19hrs] Practical independent / group learning for practical [0.5 x 22hrs] + Report writing on field visit [0.5 x 10 hrs] Lab/ Field/other 0.5 x 6 180 hrs 	<ul style="list-style-type: none"> Continuous Assessments (CA) 3 X 1 Practical assessments (PA) 1 X 1 hrs 04 hrs	300hrs
Course Aim/s.	<p>Student who follow this course should:</p> <p>Master a broad set of knowledge concerning the fundamentals of modifying environment, irrigation systems and recognise the objective of the learning different methods of controlling plant growth, through physical, biological and chemical means, the importance of fruits vegetables and foliage etc,</p> <p>Student should be able to</p> <ol style="list-style-type: none"> Select a suitable land, and suitable types of vegetables to be planted in a particular locality. Do cultural practices to be adopted in the cultivation of different types of vegetables. Identify most different pests and diseases affecting vegetables and how to control them, the correct stages of harvesting different types of vegetables. Propagate flowers: Anthurium, orchid, Roses etc. Identify most common pests and diseases caused to important tropical flowers, post harvest handling of flowers, landscape horticulture. 					
PLOs addressed by course	<p>PLO1: Knowledge: Explain the fundamental, principles and broader knowledge pertaining to the chosen science disciplines offered for the degree.</p> <p>PLO2: Practical Knowledge and Application. Demonstrate the competency to use the knowledge and practical skills appropriately.</p> <p>PLO3: Communication: Demonstrate the competency in communicating efficiently and effectively to present information, ideas and concepts to the scientific community as well as to the wider society.</p> <p>PLO4: Individual Work, Team Work and Leadership: Demonstrate the competency in working independently and in groups in addressing issues in multi-disciplinary environments and completing the tasks on time through collaborative learning while exhibiting leadership.</p> <p>PLO5: Creativity and Problem Solving: Identify and analyze problems using quantitative and/or qualitative approaches using scientific methodology to provide valid conclusions.</p> <p>PLO6: Adaptability and Flexibility: Demonstrate the ability to adapt to diverse working environments using flexible approaches and strategies.</p> <p>PLO8: Vision for Life: Develop the capacity to project for future through identifying self-directed goals and continuously targeting towards them for self-improvement by undertaking further studies.</p> <p>PLO9: Lifelong Learning: Develop the capacity to foresee new trends and their impacts and continuously update knowledge and develop skills willingly to meet those future challenges.</p>					
Course Learning Outcomes (CLO)	<p>The students should be able to:</p> <p>CLO1: Comprehend the basic concepts and principles in horticulture for plant growth requirements (soil and water management and management of diseases that are applied in agriculture and in our day-to-day life). PLO1, PLO9</p> <p>CLO2: Develop competency in acquiring new knowledge and applying it in a variety of situations examples: new technologies of hydroponic systems, plant propagation types (tissue culture and plant budding and grafting). PLO1, PLO2, PLO5, PLO6, PLO8, PLO9</p> <p>CLO3: Apply basic technologies commonly used in horticulturists; Landscape designing and indoor gardening designs. PLO2, PLO6, PLO8, PLO9</p> <p>CLO4: Develop the ability to clearly express their thinking pin both oral and written form, and efficiently acquire new information from many sources. PLO3, PLO4, PLO6, PLO8</p> <p>CLO5: Record and report practicals and field studies according to the accepted format. PLO2, PLO3, PLO4, PLO6, PLO9</p>					

Content (Main topics, sub topics)	<p>Introduction to Horticulture What is horticulture, Controlling the plant environment, Fertilizers and fertilization I, Fertilizers and fertilization II, Organic farming, Water management, Plant growing structureshydroponics Plant Growth and Propagation of Planting Material Control of plant growth, Biological and chemical control of plant growth, Plant propagation, Vegetative propagation I, Vegetative propagation II, Vegetative propagation III - Micropropagation Nursery management in horticultural crops, Status and potential of fruit cultivation in Sri Lanka Cultivation of Fruits Banana, Pineapple, Papaya, Citrus fruit, Mango, Other fruits, More on other fruits Cultivation of Vegetables Vegetables, Present status and potential of vegetable cultivation in Sri Lanka, Vegetables of family Cucurbitaceae, Vegetables of family Solanaceae, Vegetables of Brassicaceae, Fabaceae and Malvaceae, Leek, Beet, Carrot and leafy vegetables Ornamental Plants Floriculture industry in Sri Lanka, Anthurium,Orchids, Roses, Chrysanthemums and Gerberas Cultivation of foliage plants, Floral arrangements I – Basic principles in floral arrangements Floral arrangement II – Flower arranging styles, Container gardening I, Container gardening II- Container gardening styles, Landscape horticulture, More about landscaping</p>	
Teaching Learning methods	<p>Describe Self-Learning/Independent learning of Self-study</p> <ul style="list-style-type: none"> ▪ Instructional Material (IL) ▪ Online Activities (OL) ▪ Reference Work (RE) <p>Compulsory contact sessions</p> <ul style="list-style-type: none"> ▪ Practical Sessions (PR) ▪ Assessments (AS) and Feedback – MCQs (MCQ);Structured Essay (SEQ); Essay Questions (ES); Practical Tests (PT); Assignments (A) <p>Non-compulsory contact sessions</p> <ul style="list-style-type: none"> ▪ Day Schools (DS) ▪ Field Trip (FT) ▪ Reports (RE) <p>Any other</p>	
Assessment strategy	Overall CA Mark (OCAM): 40%	Final Assessment: 60%
	: 50% of the highest OBT/NBTs + 20% of the second highest OBT/NBTs +30% of the practical component Minimum 30 marks compulsory for PT	Final Evaluation Theory: 100% (3hrs)
Overall mark = 40 % OCAM + 60 % Final Examination		
Recommended Readings:	<ul style="list-style-type: none"> • Foundation of landscape architecture: Integrating form and space using the language of site design (1st edn.) by Norman Booth 2011. Wiley publisher. ISBN: 9780470635056 • The manual of interior plantscaping: A guid to design, installation and maintenance. by Kathy Fediw 2015. Timber Press (OR). ISBN -10: 1604695579, ISBN 13-9781604695571. • Interior plantscaping principles and practices (1st edn.) by James M. Delprinae 2012. Delmar Cengage Learning. ISBN 13: 9781435439634, ISBN 10: 1435439635. • The living landscape: designing for beauty and biodiversity in the home garden (1st edn.) by Rick Darke and Douglas W. Tallamy 2014. Timber Press. ISBN – 10: 1604694084, ISBN 13: 9781604694086 	