



UNIVERSITI TEKNOLOGI MARA

AGA512: ORNAMENTAL PLANTS MANAGEMENT

<b>Course Name (English)</b>	ORNAMENTAL PLANTS MANAGEMENT <b>APPROVED</b>
<b>Course Code</b>	AGA512
<b>MQF Credit</b>	3
<b>Course Description</b>	This is an advanced course in identifying woody and herbaceous ornamental plants used in both urban and conventional landscapes. Emphasis is given on the characterization of the plants as basis for selection and classification under different landscape conditions. Management and upkeep of these plants are also included.
<b>Transferable Skills</b>	1) Thinking & Scientific Skills – CTPS3 (Ability to find ideas and problem solving)  2) Information Management & Life Long Learning – LL3 (Ability to show interest in learning new knowledge)  3) Entrepreneurship Skills – KK3 (Ability to develop, explore & grab job opportunity)
<b>Teaching Methodologies</b>	Lectures, Blended Learning, Field Trip
<b>CLO</b>	CLO1 Identify both indoor and outdoor ornamental plants used in modern landscapes. (C1, PLO1) CLO2 Justify the selection and classification of indoor and outdoor ornamental plants. (A3, PLO9) CLO3 Arrange the management methods that are used in the upkeep of both indoor and outdoor ornamental plants. (A4, PLO10)
<b>Pre-Requisite Courses</b>	No course recommendations
<b>Topics</b>	
1. 1.0 INTRODUCTION 1.1) 1.1 Definition of ornamental plants 1.2) 1.2 The functions of ornamental plants in landscape 1.3) 1.3 Overview of ornamental plant industry in Malaysia	
2. 2.0 CLASSIFICATION OF ORNAMENTAL PLANTS 2.1) 2.1 CLASSIFICATION OF PLANTS 2.2) 2.3) 2.2 PLANTS TYPE 2.4) 2.2.1 Trees 2.5) 2.2.2 Shrubs 2.6) 2.2.3 Climbers and creepers 2.7) 2.2.4 Palm 2.8) 2.2.5 Cactus 2.9) 2.2.6 Orchids 2.10) 2.2.7 Ferns 2.11) 2.2.8 Aquatic plants 2.12) 2.2.9 Groundcovers 2.13) 2.2.10 Bamboos	

**3. 3.0 GROWTH REQUIREMENTS OF ORNAMENTAL PLANTS**

- 3.1) 3.1 BONSAI
- 3.2) 3.1.1 Introduction
- 3.3) 3.1.2 Choosing the plants
- 3.4) 3.1.3 Source of plants
- 3.5) 3.1.4 Containers
- 3.6) 3.1.5 Tools
- 3.7) 3.1.6 Potting soils
- 3.8) 3.1.7 Styles of bonsai
- 3.9) 3.1.8 Process of preparing bonsai
- 3.10) 3.1.9 Maintenance practices
- 3.11)
- 3.12) 3.2 TERRARIUM
- 3.13) 3.2.1 Introduction
- 3.14) 3.2.2 Containers selection
- 3.15) 3.2.3 Container preparation
- 3.16) 3.2.4 Plants selection
- 3.17) 3.2.5 Planting the terrarium
- 3.18) 3.2.6 Maintenance practices
- 3.19)
- 3.20) 3.3 TOPIARY
- 3.21) 3.3.1 Introduction
- 3.22) 3.3.2 Types of topiary
- 3.23) 3.3.3 Plants selection
- 3.24) 3.3.4 Topiary techniques
- 3.25) 3.3.5 Maintenance practices
- 3.26)
- 3.27) 3.4 AQUATIC PLANTS
- 3.28) 3.4.1 Introduction
- 3.29) 3.4.2 Types of aquatic plants
- 3.30) 3.4.3 Plants selection
- 3.31) 3.4.4 Maintenance practices

**4. 4.0 MAINTENANCE PRACTICES**

- 4.1) 4.1 BASIC LANDSCAPE DESIGN
- 4.2) 4.1.1 Introduction to landscape design
- 4.3) 4.1.2 Tools and scaling for landscape plan drawing
- 4.4) 4.1.3 Common symbols of plant and structure
- 4.5) 4.1.4 Functions of plants in landscape design
- 4.6) 4.1.5 Landscape plan elements
- 4.7) 4.1.6 Characteristics of landscape design
- 4.8) 4.1.7 Principles of design
- 4.9) 4.1.8 Landscape designing process
- 4.10) 4.1.9 Maintenance practices

**5. 5.0 ISSUES AND PROBLEMS IN ORNAMENTAL INDUSTRY**

- 5.1) n/a

Assessment Breakdown	%
Continuous Assessment	50.00%
Final Assessment	50.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Written assignment	10%	CLO2
	Presentation	Virtual Presentation	20%	CLO3
	Test	Online Test	20%	CLO1

Reading List	Recommended Text
	<ul style="list-style-type: none"> <li>• Michael A. Dirr 2009, <i>Manual of Woody Landscape Plants Their Identification, Ornamental Characteristics, Culture, Propagation and Uses</i> 6th Ed., Stipes Publishing Co.</li> <li>• Ng, F.S.P 2010, <i>Tropical Horticulture and Gardening</i>, MPH Publishing, K.L</li> <li>• Teo, C.K.H 2009, <i>Native Orchids of Peninsular Malaysia</i>, Marshall Cavendish Edition, Singapore</li> <li>• Nelson, P.V 2003, <i>Greenhouse Operation and Management</i>, 6th Ed.</li> <li>• Prentice Hall N.J Biondo, R.J and Schroeder, C.B 2006, <i>Introduction to Landscaping- Design, Construction and Maintenance</i>, IBDC Lucknow</li> </ul>

<b>Article/Paper List</b>	This Course does not have any article/paper resources
<b>Other References</b>	This Course does not have any other resources