

UNIVERSITI TEKNOLOGI MARA

AGA502: AGRICULTURAL BOTANY				
Course Name (English)	AGRICULTURAL BOTANY APPROVED			
Course Code	AGA502			
MQF Credit	3			
Course Description	This course will introduce students to the basic concepts in agricultural botany, definitions, their importance, relevance to agricultural production and its development which emphasis on anatomy, morphology and classification of agricultural crops. This course will provide a knowledge, especially in various plant morphological features and function, growth development and reproduction. The systematic survey will be conducted to focus on plant taxonomy in order to relate their origin, diversity, ecology and economic importance in agriculture. The agricultural importance of plants for commercial application in agricultural will be used as an example. This subject focuses only on a representative group of economic crops.			
Transferable Skills	Practical fieldwork sampling			
Teaching Methodologies	Lectures, Blended Learning, Lab Work, Project-based Learning			
CLO	 CLO1 State the basic concept and theories of taxonomy. CLO2 Identify basic plant morphology, anatomy, growth development of agricultural crop CLO3 Present the knowledge of agricultural botany for horticultural purposes 			
Pre-Requisite Courses	No course recommendations			
Topics				
1. INTRODUCTION 1.1) Angiosperm				
2. GYMNOSPERM 2.1) Classification 2.2) Morphology				
3. PTERYDOPHYTE 3.1) Classification 3.2) Structural feature	-			
4. ECONOMIC BOT/ 4.1) Food Crop 4.2) Plantation and C 4.3) Biofuel				

Assessment Breakdown	%
Continuous Assessment	50.00%
Final Assessment	50.00%

Details of							
Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO			
	Assignment	Assignment of the economic importance in agricultural crop industry and in horticultural purposes	10%	CLO3			
	Lab Exercise	Lab report and sketch drawing evaluation	20%	CLO2			
	Test	The test will assess all topic unit from introduction until the economic importance of crop thru online	20%	CLO1			
Reading List	Recommended Text	Elizabeth A. Kellogg 2015, <i>Flowering Plants. Monocots</i> , Springer [ISBN: 9783319153322]					
		Walter S. Judd,Michael J. Donoghue 2015, <i>Plant Systematics</i> , Sinauer Associates [ISBN: 1605353892]					
	Reference Book Resources	Lewis, W. H., and M. P. F. Elvin-Lewis 2003, <i>Medical botany: plants affecting human health</i> , 2nd edition Ed., J. Wiley,Hoboken, N.J.					
		Pollan, M 2001, <i>The botany of desire: a plant's eye view of the world</i> , Random House, New York					
		Simpson, B.B. & M. Conner-Ogorzaly 2001, <i>Economic Botany:</i> <i>Plants in our World</i> , McGraw-Hill					
		Alexander Nelson 2007, <i>Principles of Agricultural Botan</i> Alexander Nelson Publisher: Read book Joachim W. Kadereit,Volker Bittrich 2016, <i>Flowering Plat</i> <i>Eudicots</i> , 14 Ed., Springer [ISBN: 9783319285344]					
		R-E Spichiger,Vincent V. Savolainen,Murielle Systematic Botany of Flowering Plants, CRC 9781578083732]					
Article/Paper List	This Course doe	This Course does not have any article/paper resources					
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This Course does not have any other resources

Other References