



UNIVERSITI TEKNOLOGI MARA

AGR662: Industrial Crop Production

Course Name (English)	Industrial Crop Production APPROVED
Course Code	AGR662
MQF Credit	3
Course Description	This course will interactively engage students cognitively and scientifically in selected industrial crops based on their uses and suitability for crop growth under Malaysian soils and climate. Students will define concepts, state and explain industrial crops classified by their uses, perform investigations via simulations and fieldwork exercises and field visits and verbally and in writing, discuss the results and relationships with peers and facilitators.
Transferable Skills	knowledge, communication skill, social skill and responsibilities.
Teaching Methodologies	Lectures, Case Study, Discussion, Presentation
CLO	<p>CLO1 Verbally and visually (pictures and graphs) relate and discuss the morphology and characteristics of selected industrial crops under Malaysia soil and climate.</p> <p>CLO2 Communicate to peers verbally and to the facilitator in writing a comprehensive understanding of biology, ecology, agronomy, crop requirement and technique of growing industrial crops.</p> <p>CLO3 Collaborate, motivate and truthful with team members in both the fieldworks and in the classroom.</p>
Pre-Requisite Courses	No course recommendations
Topics	
1. 1. Classification of industrial crops based on their uses 1.1) n/a	
2. 2. Production of oil palm 2.1) 2.1 Origin, history and spread 2.2) 2.2 Morphology and characteristics 2.3) 2.3 Cultivars, uses and constituents 2.4) 2.4 Ecology and crop requirements 2.5) 2.5 Agronomy and techniques of production of oil palm 2.6) 2.6 Economics of oil palm	
3. 3. Production of rubber 3.1) 3.1 Origin, history and spread 3.2) 3.2 Morphology and characteristics 3.3) 3.3 Cultivars, uses and constituents 3.4) 3.4 Ecology and crop requirements 3.5) 3.5 Agronomy and techniques of production of rubber 3.6) 3.6 Economics of rubber	
4. 4. Production of rice 4.1) 4.1 Origin, history and spread 4.2) 4.2 Morphology and characteristics 4.3) 4.3 Cultivars, uses and constituents 4.4) 4.4 Ecology and crop requirements 4.5) 4.5 Agronomy and techniques of production of rice 4.6) 4.6 Economics of rice	

5. 5. Production of pepper 5.1) 5.1 Origin, history and spread 5.2) 5.2 Morphology and characteristics 5.3) 5.3 Cultivars, uses and constituents 5.4) 5.4 Ecology and crop requirements 5.5) 5.5 Agronomy and techniques of production of pepper 5.6) 5.6 Economics of pepper
6. 6. Production of Tea and Coffee 6.1) 6.1 Origin, history and spread 6.2) 6.2 Morphology and characteristics 6.3) 6.3 Cultivars, uses and constituents 6.4) 6.4 Ecology and crop requirements 6.5) 6.5 Agronomy and techniques of production of tea and coffee 6.6) 6.6 Economics of tea and coffee
7. 7. Production of cocoa 7.1) 7.1 Origin, history and spread 7.2) 7.2 Morphology and characteristics 7.3) 7.3 Cultivars, uses and constituents 7.4) 7.4 Ecology and crop requirements 7.5) 7.5 Agronomy and techniques of production of coffee 7.6) 7.6 Economics of cocoa
8. 8. Production of other industrial crops 8.1) 8.1 Origin, history and spread 8.2) 8.2 Morphology and characteristics 8.3) 8.3 Cultivars, uses and constituents 8.4) 8.4 Ecology and crop requirements 8.5) 8.5 Agronomy and techniques of production of industrial crops 8.6) 8.6 Economics of industrial crops

Assessment Breakdown		%		
Continuous Assessment		60.00%		
Final Assessment		40.00%		

Details of Continuous Assessment				
	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Assignment	20%	CLO3
	Presentation	Video Presentation	10%	CLO2
	Test	Online Test	30%	CLO1

Reading List	Reference Book Resources	<ul style="list-style-type: none"> • Elzebroek, T and Wind 2008, <i>Guide to cultivated plants</i>, CABI • Acquaah, G., <i>Principles of Crop Production: Theory, Techniques and Technology 2nd Edition</i>, Pearson Prentice Hall • Wintgens, J. N 2009, <i>'Coffee: Growing, Processing, Sustainable-Production. A guidebook for Growers, Processors, traders and Researchers., . Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim.</i> • MARDI 2006, <i>Anggaran Kos Pengeluaran dan Pendapatan bagi Tanaman Industri. Mohamed Nasir, S. (ed.), MARDI</i> • Abu Bakar Ahmad. 1985, <i>Teknologi Getah Asli. RRIM, K. Lumpur.</i>
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	