



## UNIVERSITI TEKNOLOGI MARA

### AGR622: INDUSTRIAL CROPS II

<b>Course Name (English)</b>	INDUSTRIAL CROPS II <b>APPROVED</b>
<b>Course Code</b>	AGR622
<b>MQF Credit</b>	3
<b>Course Description</b>	no description provided
<b>Transferable Skills</b>	Knowledge, leadership, teamwork
<b>Teaching Methodologies</b>	Lectures, Discussion
<b>CLO</b>	<p>CLO1 Verbally and visually (pictures and graphs) relate and discuss the characteristics of selected industrial crop II to Malaysian soil and climate</p> <p>CLO2 Observe, plan, conduct and justify scientific investigations on the characteristics of soil and climate on the selected industrial crop II</p> <p>CLO3 Communicate to peers verbally and to the facilitator in writing, the science investigations and justifications in crop requirements and techniques of raising or growing industrial crop II.</p> <p>CLO4 Collaborate, motivate and truthful with the team members in both the fieldworks and in the classroom.</p>
<b>Pre-Requisite Courses</b>	No course recommendations
<b>Topics</b>	
<b>1. 1. Classification of Industrial crops II based on their uses</b> 1.1) Industrial Crop II 1.2) Cereal crops – rice, maize 1.3) Fruits, beverages, vegetables, starchy crops, nuts and spices	
<b>2. 2. Techniques of growing plantation crop – pepper</b> 2.1) Plant characteristics and selected varieties 2.2) Planting materials and nursery 2.3) Land preparation and planting 2.4) Fertilizer requirement and pest management 2.5) Harvesting and processing of pepper	
<b>3. 3. Techniques of coconut cultivation</b> 3.1) Plant characteristics and kind of varieties 3.2) Methods of growing coconut 3.3) Land preparation and crop management 3.4) Fertilization and pest control 3.5) Harvesting of coconut	
<b>4. 4. Techniques of growing beverages – Tea/Coffee</b> 4.1) Plant characteristics and selected varieties 4.2) Suitable climate for tea cultivation 4.3) Land preparation, planting and fertilization 4.4) Pruning, harvesting and processing	
<b>5. 5. Techniques of cocoa cultivation</b> 5.1) Plant characteristics and kind of fruits 5.2) Planting materials and nursery techniques 5.3) Land preparation, irrigation and fertilization 5.4) Pruning, pest management and harvesting	

**6. 6. Techniques of growing kenaf**

- 6.1) Plant characteristics and selected varieties
- 6.2) Planting materials and nursery techniques
- 6.3) Land preparation and planting techniques
- 6.4) Fertilization management, pest control and marketing

**7. 7. Techniques of sugarcane cultivation**

- 7.1) Plant characteristics and selected varieties
- 7.2) Methods of growing sugarcane
- 7.3) Land preparation and planting
- 7.4) Fertilization management and pest control
- 7.5) Harvesting of sugarcane

**8. 8. Techniques of growing tobacco**

- 8.1) Plant characteristics and selected varieties
- 8.2) Planting materials and nursery techniques
- 8.3) Land preparation and planting techniques
- 8.4) Fertilization management, pest control and marketing

Assessment Breakdown	%
Continuous Assessment	60.00%
Final Assessment	40.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	ASSIGNMENT	15%	CLO1 , CLO2 , CLO3
	Attendance	ETHICS	2%	CLO1
	Group Project	CONCEPT MAP	4%	CLO1 , CLO2 , CLO3
	Presentation	COMMUNICATION SKILL/ CLASS DIALOGUES	15%	CLO1 , CLO2 , CLO3 , CLO4
	Quiz	QUIZ 1	2%	CLO1 , CLO2
	Quiz	QUIZ 2	2%	CLO1 , CLO2 , CLO3
	Test	TEST 1	10%	CLO1 , CLO2
	Test	TEST 2	10%	CLO1 , CLO2 , CLO3 , CLO4

Reading List	Recommended Text	<ul style="list-style-type: none"> <li>• MARDI 2006, <i>Anggaran Kos Pengeluaran dan Pendapatan bagi Tanaman Industri</i>. Mohamed Nasir, S. (ed).</li> <li>• 2. Wintgens, J. N. 2004, <i>Coffee: Growing, Processing, Sustainable-Production. A guidebook for Growers, Processors, Traders, and Researchers</i>.</li> <li>• MARDI 1990, <i>Panduan menanam dan pemprosesan koko</i>. Berita Publishing, K.L,</li> <li>• MARDI 1990, <i>Sugar cane Production in Peninsular Malaysia</i>. MARDI. K.L,</li> </ul>
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	