

**UNIVERSITI TEKNOLOGI MARA****AGR262: MAJOR CROPS PRODUCTION**

<b>Course Name (English)</b>	MAJOR CROPS PRODUCTION <b>APPROVED</b>
<b>Course Code</b>	AGR262
<b>MQF Credit</b>	3
<b>Course Description</b>	This course will interactively engage students cognitively on major industrial crops such as rubber, oil palm, cocoa and paddy. Students will identify, discuss and explain economic importance of the above crop as well as the agronomic practices. Topics such as crop protection and after harvest activities including processing of products of the above crops will also be part of the interactive learning process. Lecture sessions employ a mixture of lectures and active learning (self and peer discussions). The outcomes shall be assessed through a variety of tools which include the traditional paper examination, group paper presentation and classroom engagement.
<b>Transferable Skills</b>	Demonstrate ability to communicate clearly and confidently and listen critically.
<b>Teaching Methodologies</b>	Lectures, Field Trip, Presentation
<b>CLO</b>	<p>CLO1 Organize and communicate thoughts and ideas on current issues in major crop production in Malaysia through oral presentation and written assignments.</p> <p>CLO2 Identify the major varietal characteristics of the industrial crops as well as their production and commercial potential.</p> <p>CLO3 Apply the techniques of planting, maintenance and harvesting of the above crops and be able to relate the biotic and abiotic factors.</p> <p>CLO4 Understand and demonstrate the post harvest system and processing techniques of the crops discussed.</p>
<b>Pre-Requisite Courses</b>	No course recommendations
<b>Topics</b>	
<b>1. Rubber</b> 1.1) Morphology of Rubber 1.2) Soil and climatic requirements 1.3) Varieties (clones) 1.4) Propagation 1.5) Field planting 1.6) General maintenance 1.7) Harvesting 1.8) Processing	
<b>2. Oil palm</b> 2.1) Morphology of oil palm 2.2) Soil and climatic requirements 2.3) Clones 2.4) Propagation 2.5) Field planting 2.6) General maintenance 2.7) Harvesting 2.8) Processing	

**3. Paddy**

- 3.1) Morphology of paddy
- 3.2) Soil and climatic requirement
- 3.3) New principal varieties cultivated in Malaysia, growth rate and field potentials
- 3.4) Propagation
- 3.5) Planting
- 3.6) General maintenance
- 3.7) Harvesting
- 3.8) Processing

**4. Cocoa**

- 4.1) Morphology of cocoa
- 4.2) Soil and climatic requirements
- 4.3) Clones
- 4.4) Propagation
- 4.5) Field planting
- 4.6) General maintenance
- 4.7) Harvesting
- 4.8) Processing

Assessment Breakdown	%
Continuous Assessment	60.00%
Final Assessment	40.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Students are given certain topic on current issues in major crops production. The assignment should be submitted at Week 9.	10%	CLO1 , CLO2
	Presentation	Students are assessed in a group on certain topic in the chapters.	10%	
	Test	Test 1	15%	CLO2 , CLO3 , CLO4
	Test	Test 2	15%	CLO3 , CLO4
	Written Report	Field trip report	10%	CLO1 , CLO2

Reading List	Recommended Text	• Abu Bakar Haji Ahmad 1985, <i>Teknologi Getah Asli</i> , Institut Penyelidikan Getah Malaysia Kuala Lumpur
	Reference Book Resources	<ul style="list-style-type: none"> <li>• Bevan, J.W.L. and B.S. Gary 1969, <i>The organisation and control of field practices for large scale oil palm plantings in Malaysia</i>, Kuala Lumpur</li> <li>• Dee Datta, S.J. 1981, <i>Practices of rice production</i>, New York</li> <li>• Word, G.A.R 1980, <i>Cocoa</i>, Longman London</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	