



UNIVERSITI TEKNOLOGI MARA

AGR425: INTRODUCTION TO ANIMAL PRODUCTION

Course Name (English)	INTRODUCTION TO ANIMAL PRODUCTION APPROVED
Course Code	AGR425
MQF Credit	3
Course Description	Animal production is concerned with the scientific and business aspects of the production of beef and dairy cattle, poultry, sheep and goats. The sciences that underpin animal production include animal behavior, microbiology, anatomy and physiology, health, nutrition and reproduction. The latest technologies and business principles and how to apply to animal husbandry programs to ensure profitable and sustainable animal production will be covered. The biology and management of production animals are included in the syllabus.
Transferable Skills	Knowledge Communication Leadership Team work Life long learning
Teaching Methodologies	Lectures, Discussion, Presentation
CLO	CLO1 Describe the importance of agriculture animals to the society and scientific principles in animal production activities CLO2 Identify livestock species, breed, and classes and their utilization within the livestock industry CLO3 Develop an understanding of the mechanics of appropriate project development: feasibility, design, implementation, monitoring and evaluation in animal production
Pre-Requisite Courses	No course recommendations
Topics	
1. Introduction: The importance of animal science 1.1) 1. The role of animal science 1.2) 2. Areas of animal industry 1.3) 3. Benefits of animal science 1.4) 4. Farm animals and the environment	
2. Introduction to animal production 2.1) 1. Goals of animal production 2.2) 2. Segments of animal industry 2.3) 3. Production animals / products harvested from animals 2.4) 4. Legislative impact on animal production	
3. Principles of animal health and safety 3.1) 1. Healthy animal management 3.2) 2. Common disease in agricultural animals	
4. Principles of animal nutrition 4.1) 1. Digestive system 4.2) 2. Nutrient uses and requirement 4.3) 3. Feeds and feeding 4.4) 4. Ration formulation	
5. Animal Behavior 5.1) 1. Behavior terminologies 5.2) 2. Animal behaviors	

6. Cattle Industry: Beef and Dairy cattle

- 6.1) 1. Historical perspective and outlook
- 6.2) 2. Structure of the industry
- 6.3) 3. Reproduction
- 6.4) 4. Nutrition and health
- 6.5) 5. Management

7. Sheep and Goats industry

- 7.1) 1. Historical perspective and outlook
- 7.2) 2. Structure of the industry
- 7.3) 3. Reproduction
- 7.4) 4. Nutrition and health
- 7.5) 5. Management

8. Poultry industry

- 8.1) 1. Historical perspective and outlook
- 8.2) 2. Reproduction
- 8.3) 3. Nutrition and health
- 8.4) 4. Management

9. Presentation

- 9.1) Farm documentary

Assessment Breakdown	%
Continuous Assessment	60.00%
Final Assessment	40.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Individual written assignment	20%	CLO3
	Presentation	Video presentation	20%	CLO2
	Written Report	Written report	20%	CLO2

Reading List	Recommended Text	<ul style="list-style-type: none"> • Thomas G. Field 2011, <i>Scientific farm animal Production</i>, 9th Ed., Prentice Hall
Article/Paper List	This Course does not have any article/paper resources	
Other References	<ul style="list-style-type: none"> • n/a James A. Gillespie 2010, <i>Modern Livestock and Poultry Production (8th Edition)</i>, Del mar 	