

The University of Jordan

Faculty of Agriculture. Department of Animal Production
Program: 2016-2017/ First Semester

Course title: Camel Production (632320)

Credit hours	3	Level	Third Year	Pre-requisite	Principle of Animal Production. (602101)
Coordinator/ Lecturer	Dr. Firas Mahmoud Hayajneh	Office number	170	Office phone	22382
Course website	On UJ E. Learning portal @ Moodle LCM .	E-mail	F_hayajneh@ju.edu.jo	Place	132, Almagdala Hall

Office hours					
Day/Time	Sunday	Monday	Tuesday	Wednesday	Thursday
Day	*	-	*	-	*
Time	9-11	-	9-11	-	9-11

Course Description

This course introduces students to the different aspects of camel production which include: breeding and genetics, nutrition and feeding, reproduction, and camel products such as meat, milk and fiber. In addition to an overview on world camel industry and camel sector in Jordan. The physiology and reproduction of the one humped camel, and the veterinary management.

Learning Objectives:

The General objective of this course is to establish basic knowledge of how to manage and operate commercial camel farms, and camel herds. Also to gain experience to provide facilities and equipment concerning housing, milking, breeding, and feeding camels and how to apply efficient management of camels especially in record keeping, selection, culling and herd health in order to increase camel production.

Intended Learning Outcomes (ilos):

Successful completion of the course should lead to the following outcomes:

A. KNOWLEDGE AND UNDERSTANDING:

1. Student should have the scientific knowledge regarding the basic concepts and subjects of camel management.
2. Student should be capable to combine between all subjects regarding the camel farm in order to give proper decisions.
3. Student should understand how to apply these concepts to the efficient management of a camel herd in order to obtain high production with good quality.
4. Student should expect the problems or imbalances that may occur in a camel farm to be ready to solve it.

B. NTELLECTUAL ANALYTICAL AND COGNITIVE SKILLS:

The student's ability to distinguish and analyze the effects of each subject (sector) on camel farm productivity.

The capability of student to manage all sectors in a camel farm involving the farm staff.

C. SUBJECT-SPECIFIC SKILLS:

1. Preparing scientific reports on various topics related to camel farm management based on different resources including scientific papers in refereed journals.
2. Applying skills gained through the course topics and scientific reports in the field training courses.

D. TRANSFERABLE KEY SKILLS:

1. The student has the skill to manage a camel farm depending on the acquired knowledge and skills in this course.
2. The student uses all his energies with the acquired skills in this course to improve the level of knowledge of others especially camel farmers.

Ilos: Learning and Evaluation Methods

ILO/s	Learning Methods	Evaluation Methods
	Lectures and Discussions, Homework and Assignments, Projects, Presentation, ...	Exam, Quiz, presentation, project, assignments, ..
	:	

Course Contents

No. Of lecture (s) /Week	Subject	Sources	Ilos
2 (1st wk)	An introduction to the camel <ul style="list-style-type: none">• The camel in pastoral life• Camel advantages over other livestock in dry land	Section 1 in manual on camel keeping in kenya	A1,C2
2 (2nd wk)	The multi-purpose camel	Section 2 in manual on	A1,A2,C3

	<ul style="list-style-type: none"> Camels as source of energy Utilization of camel in human nutrition Camel products 	camel keeping in Kenya	
2 (3 rd wk)	The multi-purpose camel <ul style="list-style-type: none"> The camel milk Camel milk biproducts Camel milking methods Meat production Camel wool 	Chapter 3 in animal health, power point lectures	A2,A3,B3,B4
2 (4 th wk)	Camel nutrition <ul style="list-style-type: none"> Camel nutrition Feeding camels Water requirements Techniques of mineral research for ruminants. 	Section 3 in manual on camel keeping in kenya	A3,B3
2 (5 th wk)	Purchase and management <ul style="list-style-type: none"> Examination and selection of camel for purchase Restraining of camel 	Section 4 in manual on camel keeping in kenya	A4,B3,C4
2 (6 th wk)	Purchase and management <ul style="list-style-type: none"> Branding of camel Transportation of camel Training of camel Harnesses and saddels 	Section 4 in manual on camel keeping in kenya	D3,C4
3 (7 th & 8 th wk)	Camel breeds and management <ul style="list-style-type: none"> Camel breeds in Arabian countries 	Section 5 in manual on camel keeping in kenya	D1,B2
(7 th & 8 th wk)	Midterm Exam.		
4 (9 th & 10 th wk)	Physiology of the camel <ul style="list-style-type: none"> Anatomy of the camel Digestive system of the camel 	Section 6 in manual on camel keeping in kenya	D1,A4,D3,C4
2 (11 th wk)	Reproduction in camels <ul style="list-style-type: none"> Reproduction Anatomy in Male Camels Reproduction Anatomy in female Camels Reproduction Physiology in Male Camels Reproduction Physiology in female Camels 	Section 6 in manual on camel keeping in kenya	D4
2 (12 th wk)	Reproduction in camels <ul style="list-style-type: none"> Common Reproductive Disorders in Dromedary Camels Dystocia, Uterine prolapse Retention of placenta, Abortion, 	Section 6 in manual on camel keeping in kenya	D1

	Early embryonic death		
2 (13 th wk)	Common Reproductive Disorders in Dromedary Camels <ul style="list-style-type: none"> • Repeat breeding syndrome • Vaginal prolapse • 	Section 6 in manual on camel keeping in kenya	D1
2 (14 th wk)	Veterinary and health management <ul style="list-style-type: none"> • Trypanosomiasis • Skin diseases 	Section 7 in manual on camel keeping in kenya	D1
2 (15 th wk)	Veterinary and health management <ul style="list-style-type: none"> • Gastrointestinal disorders • Castration of the camel 	Section 7 in manual on camel keeping in kenya	B2,C2,D1
2 (16 wk)	Veterinary and health management <ul style="list-style-type: none"> • Rabies • Foot and mouth disease • Anthrax • Brucellosis • Salmonellosis 	Section 7 in manual on camel keeping in kenya	D2

Learning Methodology

The course will be structured in power point lectures, oral presentations, and discussions. Learning is based on lectures, participation, discussions as well as learning through assignments and writing individual and independent scientific reports on selected topics.

Evaluation

Evaluation	Point %	Date
Midterm Exam	30	7 th – 8 th Week
Quizzes	10	
Reports	5	

Presentations	5	
Final Exam	50	Will be announced from register.

Main Reference/s:

- Manual on camel keeping in Kenya, range management handbook of Kenya volume 3,8.
- الابل تربية وإنتاج, د حمدي محمد قنديل
- Internet publications and sheet handouts

Intended Grading Scale (Optional)

From (%)	To (%)	Scale	Mark	Result
0	46	0	H	Fail
47	49	0.75	D-	Fail
50	54	1	D	Accepted
55	57	1.5	D+	Accepted
58	60	1.75	C-	Good
61	65	2	C	Good
66	68		C+	
69	71	2.5	B-	Good
72	76	2.75	B	Very Good
77	79	3	B+	Very Good
80	82	3.5	A ⁻	Very Good
83	100	3.75	A	Excellent

Notes:

- Concerns or complaints should be expressed in the first instance to the module lecturer; if no resolution is forthcoming, then the issue should be brought to the attention of the module coordinator (for multiple sections) who will take the concerns to the module representative meeting. Thereafter, problems are dealt with by the Department Chair and if still unresolved the Dean and then ultimately the Vice President. For final complaints, there will be a committee to review grading the final exam.
- For more details on University regulations please visit:
[Http://www.ju.edu.jo/rules/index.htm](http://www.ju.edu.jo/rules/index.htm)