

Specification for animal, poultry and fish Feeding and malnutrition course 2019/2020

A-Affiliation

1.	Relevant program	Bachelor of Veterinary Medical Science (BVMSc)
2.	Department offering the course	Nutrition and Clinical Nutrition

Date of specification approval: ministerial decree No. 1727 on 26/4/2017
(Approved in this template by the department council on 1/10/2019)

B-Basic information

1.	Course title	Animal, Poultry and Fish Feeding & Malnutrition Diseases
2.	Course code	306 (A) I
3.	Level	3rd year
4.	Semester	First term
5.	Total hours/week	5
6.	Lecture hours/week	2
7.	Practical hours/week	3

C-Professional Information

1- Course learning objectives

The aim of the course is to provide the students with a basic educational knowledge in the field of Animal, Poultry and Fish Nutrition and to enable them to gain the skills and attitudes required for the practice of ration formulation for farm animals and being experienced in animal feed preparation.

2- Intended learning outcomes of the course (ILOs):

a- Knowledge and understanding

After successful completion of the course the students should be able to:

- a.1. Define basics of animal nutrition.
- a.2. Record the basic knowledge about function, sources and deficiency diseases of nutrients.
- a.3. Describe the basic knowledge about the nutrient requirements of different animal species and its relation with the suitable feedstuffs.
- a.4. Understand the proper use of different feedstuffs in the local environment to achieve maximum animal production

b- Intellectual skills

After successful completion of the course the students should be able to:

- b.1. Interpret the fitness of feedstuffs for animal feeding.

- b.2. Apply the best method of animal feeding to achieve maximum production and least cost of ration.
b.3. Plan to solve problems associated with animal feeding

c- Professional and practical skills

After successful completion of the course the students should be able to:

- c.1. Solve nutritional problems and suggestions to improve the production ability of an animal enterprise.
c.2. Evaluate the problems of feed preparation and explain the methods of solving in quick and reliable manner.
c.3. Perform and practices the best and reliable method of ration formulation

d- General and transferable skills

After successful completion of the course the students should have the following skills

- d.1. Solve problems associated with animal nutritional diseases.
d.2. Research skill
d.3. Work in a team during group assignments
d.4. Communicate with other professional persons in the nutritional field.
d.5. Presentation skills: capacity to make oral presentations

3- Course contribution in the program ILOs:

Course ILOS	Program ILOS
A Knowledge and understanding	a ⁶
B Intellectual skills	b ²
C Professional and practical skills	c ⁷
D General and transferable skills	d ^{1,4,5,6}

3.1- Course contents:

Topic	Lecture hours	Practical hours
Plant composition	4	-
Water	2	
The carbohydrates and its metabolism	4	-
The proteins and its metabolism	4	-
The lipids and its metabolism	4	-
Nutritional microbiology	4	
Vitamins	4	-
Minerals	4	
Technical terms		3
Evaluation of feedstuffs	-	15
Feedstuffs	-	27
Total hour	45	45

The midterm and practical exams are included during the semester

3.2- ILOs matrix:

Topic	A) Knowledge and understanding	B) Intellectual skills	C) Professional and practical skills	D) General and transferable skills
Plant composition	a1, a3, a4,	b1, b2,	c1,	d1, d5, d6
Water	a1, a2, a3,a4,	b1, b2,b3,	c1, c2 , c3,	d1, d2,d3, d4, d5,
The carbohydrates and its metabolism	a1, a2, a3,a4,	b1, b2,b3,	c1, c2 , c3,	d1, d2,d3, d4, d5,
The proteins and its metabolism	a1, a2, a3,a4,	b1, b2,b3,	c1, c2 , c3,	d1, d2,d3, d4, d5,
The lipids and its metabolism	a1, a2, a3,a4,	b1, b2,b3,	c1, c2 , c3,	d1, d2,d3, d4, d5,
Nutritional microbiology	a1, a2, a3,a4,	b1, b2,b3,	c1, c2 , c3,	d1, d2,d3, d4, d5,
Vitamins	a1, a2, a3,a4,	b1, b2,b3,	c1, c2 , c3,	d1, d2,d3, d4, d5,
Minerals	a1, a2, a3,a4,	b1, b2,b3,	c1, c2 , c3,	d1, d2,d3, d4, d5,
Technical terms	a1, a2, a3,a4,	b1, b2,b3,	c1, c2 , c3,	d1, d2,d3, d4, d5,
Evaluation of feedstuffs	a1, a2, a3,a4,	b1, b2,b3,	c1, c2 , c3,	d1, d2,d3, d4, d5,
Feedstuffs	a1, a2, a3,a4,	b1, b2,b3,	c1, c2 , c3,	d1, d2,d3, d4, d5,

4- Teaching, learning and assessment methods:

ILOs	Teaching and Learning methods						assessment method				
	L	P&M	D&S	P	Ps	Bs	semester	midterm	oral	practical	written
and understandin	a1	x	x	x	0	0	x	x	x	0	x
	a2	x	x	x	0	0	x	x	x	0	x
	a3	x	x	x	0	0	x	0	x	0	x
	a4	x	x	x	0	0	x	x	0	x	0
Intellectual skills	b1	x	x	x	0	x	0	x	x	0	x
	b2	x	x	x	0	x	0	x	x	0	x
	b3	x	x	x	0	x	0	x	0	x	0
Professional and practical	c1	0	x	x	x	x	0	x	0	x	x
	c2	0	x	x	x	x	0	x	0	x	x
	c3	0	x	x	x	x	0	x	0	x	x
General skills	d1	x	0	0	x	x	0	x	0	x	x
	d2	0	x	0	0	x	x	x	0	x	x
	d3	0	0	x	x	x	x	x	0	0	0
	d4	x	0	0	x	0	0	x	0	x	0
	d5	0	x	0	x	0	0	x	0	x	0



L :Lecture, P&M: Presentations & Movies, D&S: Discussions & Seminars P: Practical, Ps: Problem solving, Bs: Brain storming

5- Assessment timing and grading:

Assessment method	timing	grade
Mid-term exam and semester work	6 th week	15
Practical exam	14 th week	20
oral exam	End of semester	15
Written exam	End of semester	50
total		100

6- List of references

6.1- **Course notes:** department course note

6.2- Essential books (text books)

- Guoyao Wu (2018) Principles of animal nutrition.
- Lokesh Gupta (2011) Animal Nutrition: Advancements In Feeds And Feeding Of Livestock.
- Wilson G. Pond (2008) Basic Animal Nutrition and Feeding

6.3- Recommended books

- Course note.
- Guoyao Wu (2018) Principles of animal nutrition.
- Wilson G. Pond (2008) Basic Animal Nutrition and Feeding.

6.4- Periodicals, Web sites, . . . etc

- Journal of American Veterinary Medical Association.
- Nutritional Abstract and Review.
- Veterinary Bulletin
- Archives of Animal Nutrition
- www.ekb.eg

7- Facilities required for teaching and learning

- Data show.
- White board.
- Nutrition laboratory
- Unit for experimental and lab animals.
- Farm animals education

Course coordinator: Prof. Dr. Nasser Elsayed Abdel-Motaleb Kheddr.

Head of department Prof. Dr. Nasser Elsayed Abdel-Motaleb Kheddr

Signature Date 1/10/2019