

Specification for Animal, poultry and fish nutrition and malnutrition diseases (B)

1-Ba	asic information								
1	Course title	Animal, Poult	ry and	fish nutrition	on and	deficien	су	diseases	(B)
2	Course code	NCN.326							
3	Department/s	nutrition and cl	inical	nutrition					
	participating in								
	delivery of the course								
4	Number of hours	Theoretical	2	Practical	1(2)	Other	0	Total	3(4)
5	Course Type		√ C	bligatory	E	lective			
6	level			3 rd ye	ear				
7	Semester			spring se	mester	•			
8	Academic program	Bachelor of Veterinary medicine (BVM)							
9	Faculty	Veterinary medicine							
10	University			Benha Un	iversit	У			
11	Name of course		Ass.P	rof. Ahmed	Elsaye	ed Sheha	ıb		
	coordinator								
12	Course Specification		Fa	culty counci	1/ 27-8	3-2025			
	Approval Date								
13	Course Specification		Dep	artment cou	ncil/8	-7-2025			
	Approval (Attach the								
	decision/minutes of the								
	department								
	/committee/council)								

2-Course overview

• Course contents written in the program bylaw:

Nutrient's requirements and applied nutrition for pre-ruminants; beef and dairy animlas; sheep & Goats; camels equines pet and lab. Animals. Nutrition as related to metabolic disorders & reproduction. Mal-nutritional and food –borne illnesses. Nutrition- infectious diseases inter-relationships. Therapeutic nutrition.



feeding practices of healthy and diseased animals. about the nutrient requirements of different animal species and its relawith the suitable feedstuffs with the suitable feedstuffs in the local environment to achie maximum animal production and solving. 4.3 Inculcate a rigorous approach to problem identification and solving. 4.5 Remain committed to life - long learning and updating / upgrading their biochemical sense and clinical skills 4.5 Remain committed to life - long learning and updating / upgrading their biochemical sense and clinical skills 5 Solve nutritional problems associated with animal feeding. 5 Solve nutritional problems assuggestions to improve the production ability of an anim enterprise	3- Course Learnin			C	
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pattern. enterprise					
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7. Tibbebb and advibe about 12 12. million in problems of i		3.7	Assess and advise about	c2	Evaluate the problems of feed
					preparation and explain the
nutrition under conditions of methods of solving in quic					methods of solving in quick
health and disease, and and reliable manner.					and reliable manner.
reproductive efficiency.			· · · · · · · · · · · · · · · · · · ·		
3.9 Conduct evidence-based c3 Perform and practices the		3.9	<u> </u>	c3	Perform and practices the
1				-	best and reliable method of
presented problems tasks ration formulation			<u> </u>		
presented problems tasks			presented problems tasks		Tanon formatation

General skills	5.1	Work under pressure and / or	d1	Work under pressure during
		contradictory conditions.		nutrition lab cession
	5.4	Organize and control tasks and		Manipulate and organize tasks
		resources.		
	5.5	Search for new information and	d3	Search for new information in
		technology as well as adopt life-		field of nutrition
		long self- learning ethics.		
	5.6	Utilize computer and internet	d4	Utilize computer and internet
		skills		skills, read paper via internet
				in field of nutrition

4- Teaching and learning methods										
Lectures	V	Discussion & seminar	V	Practical	V					
Presentation & movies	√	Problem solving	V	Brain- storming	V					
Others										

- Course Schedule:

		Total Weekly Hours		-	l number ning Hou	
Number of the Week	Scientific content of the course (Course Topics)		Theoret ical teachin g (lecture s/discus sion groups/)	Training (Practica l/Clinical /)	Self-learnin g (Tasks / Assign ments/Project s/)	Other (to be determ ined)
W1	Growth, Fattening Requirements	3(4)	2	1(2)		0
W2	Fish feeding1	3(4)	2	1(2)		0

					4 0)	NIVERS
W3	Fish feeding2	3(4)	2	1(2)	Forma tive quiz	0
W4	Dairy cow Requirements1	3(4)	2	1(2)		0
W5	Dairy cow Requirements2	3(4)	2	1(2)		0
W6	Sheep nutrition	3(4)	2	1(2)	Forma tive quiz	0
W7	Semester work (one hour exam)	-	-	-	-	-
W8	Sheep nutrition	3(4)	2	1(2)		0
W9	horse nutrition	3(4)	2	1(2)		0
W10	horse nutrition	3(4)	2	1(2)	Forma tive quiz	0
W11	Rabbit nutrition	3(4)	2	1(2)		0
W12	Rabbit nutrition	3(4)	2	1(2)		0
W13	Beef nutrition	3(4)	2	1(2)		0
W14	Beef nutrition	3(4)	2	1(2)	Forma tive quiz	0
W15	Practical exam	-	-	-		0

5- Methods of students' assessment

- a- Assessment methods (summative and formative)
- 1. Formative assessment: including (weekly quizzes, homework assignments and surveys).
- 2. **Summative assessment** including (quizzes, class activates, Semester work (one hour exam), practical exam, oral exams and final written exams).



b- Assessment schedule and weight

Assessment method	Assessment Timing (Week Number)	Marks/ Scores	Percent Percentage of total course Marks
Semester work including one hour exam	7 th week	10	10%
Formative assessment	Throughout the semester		
Practical exam	15 th week	30	30%
oral exam	End of semester	10	10%
Written exam	End of semester	50	50%
Assignments / Project /Portfolio/ Logbook			
Field training			
Other (Mention)			
Total		100	100%

6- Learning resources and supportive facilities:

	resources and supportiv	
	Main reference	Student handbook, Edited by Staff members.
Learning resources	Essential books (text books)	 Basic Animal Nutrition and Feeding (W.G. Pond; D.C. Church; K.R. Pond,). Animal Nutrition (P. McDonald). Nutrient Requirements of Domestic Animals published by National Research Council (NRC). Vitamins in Animal Nutrition (Lee Russell McDowell). Laboratory Manual for Nutrition Research (Gopal Krishna and S.K.han).
	Periodicals, Web sites, etc	 Journal of American Veterinary Medical Association. Nutritional Abstract and Review Veterinary Bulletin. Archives of Animal Nutrition
	Learning	Thinqi

	platform	
	Devices &	Muffle furnace
Supportive	instruments	Centrifuge
facilities		Hot air oven
		Ph meter
		Sterilizer
		Ph apparatus
		KJELDAHL apparatus
		WEENDES apparatus
		Soxtherm
		Computer
		Printer
		Deep freezer
		1. Data show
		2. White board
		3. Facilities of Student Nutritional Laboratory
		4. Small Unit of Feed Preparation
		5. Computer lab and internet connection.
		6. Unit for experimental and lab animals.



Matrices:

A- Content and ILOs matrix:

	ILOs						
Content	Knowledge and understanding	Intellectual skills	Professional and Practical	General and transferable			
Growth, Fattening Requirements	a1	b1	-	d1-d2-d3-d4			
Poultry nutrition	a1 - a3	b1	c1-c2-c3	d1-d2-d3-d4			
Fish feeding	a2-a2- a3	b1- b2	c1-c2-c3	d1-d2-d3-d4			
Dairy cow Requirements	a1-a2-a4	-b3	c1-c2-c3	d1-d2-d3-d4			
Feed additives	a1-a2- a3	b1- b3	c1-c2-c3	d1-d2-d3-d4			
Rabbit nutrition	a1-a2- a3	b1 -b3	c1-c2-c3	d1-d2-d3-d4			
Beef nutrition	a1-a2- a3	b1 -b3	c1-c2-c3	d1-d2-d3-d4			
Forage and Roughage	a1	-	-	d1-d2-d3-d4			
Silage, mineral and vitamin supplement	a4	b1	-	d1-d2-d3-d4			
Ration formulation	-a2-a4	b1- b2 -b3	c1-c2-c3	d1-d2-d3-d4			

B- Teaching and learning methods and ILOs matrix:

			incomo una 11		ning and					
ILOs		Learning methods								
		L	P&M	D&S	P	Ps	Bs			
dg	a1		V	V			$\sqrt{}$			
Knowledg and understand ing	a2	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$			$\sqrt{}$			
nov a nde i	a3	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$			$\sqrt{}$			
	a4	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$			$\sqrt{}$			
Intellec ual skills	b1	$\sqrt{}$	$\sqrt{}$			$\sqrt{}$				
ntellec ual skills	b2	$\sqrt{}$	$\sqrt{}$			$\sqrt{}$				
	b3	$\sqrt{}$	$\sqrt{}$			$\sqrt{}$				
Profess onal and practica I skills	c1		$\sqrt{}$		$\sqrt{}$	\checkmark				
rofenal rac rac sk	c2		$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$				
P or or	c3		$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$				
s s	d1				$\sqrt{}$	$\sqrt{}$				
General	d2		V			$\sqrt{}$	$\sqrt{}$			
Ge	d3				V	$\sqrt{}$				
	d4			_	V					



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

C- Assessment methods and ILOs matrix:

			a	ssessment	method	
ILOs		Formative assessment	semester	oral	practical	written
dgo	al	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$		$\sqrt{}$
wle and lersta ing	a2	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$		$\sqrt{}$
Knowledge and understand ing	a3	$\sqrt{}$		$\sqrt{}$		$\sqrt{}$
' '	a4	$\sqrt{}$		$\sqrt{}$		$\sqrt{}$
Intellec ual skills	b1		$\sqrt{}$	$\sqrt{}$		$\sqrt{}$
ntellec ual skills	b2		$\sqrt{}$	$\sqrt{}$		$\sqrt{}$
	b3			$\sqrt{}$		$\sqrt{}$
Profess onal and practice I skills	c1				$\sqrt{}$	$\sqrt{}$
rof nal rac sk	c2				$\sqrt{}$	$\sqrt{}$
Pr on pr	c 3				$\sqrt{}$	$\sqrt{}$
al s	d1			$\sqrt{}$	$\sqrt{}$	
General skills	d2			$\sqrt{}$	$\sqrt{}$	
	d3					
	d4			$\sqrt{}$		

Course Coordinator: Ass.Prof. Ahmed Elsayed Shehab

Program coordinator: Prof. Dr. Mahmoud Abouelroos