



ARS for PhD in Nutrition and clinical nutrition

1) Graduate attributes

The graduate should have the ability for:

- 1) Mastering the basics and methodologies of scientific research in ration formulation and feed analysis for better dealing with nutritional deficiency diseases
- 2) Performing continuous effort to add knowledge about improvement ration formulation for different species to increase growth performance.
- 3) Analysis and craterization of information in field of nutrition including animal production, biochemistry, physiology, clinical pathology, etc.
- 4) Integrating data collected from farm animals to reach the correct diagnosis of cause of mal nutritional diseases.
- 5) Showing deep awareness with the ongoing nutritional problems in feed factories and mill hygiene.
- 6) Identifying the main causes of metabolic diseases and suggesting the appropriate methods of animal treatment.
- 7) Mastering of a wide range of professional skills in using feed additives for animal nutrition.
- 8) Acquiring trends towards developing modern methods and tools in diagnostic and mechanistic feed analysis.
- 9) Using appropriate technological means including molecular biology, chromatography to serve professional practice.
- 10) Communicating effectively with nutritionist, students and colleagues and leading work team through professional scale.
- 11) Making decision in different professional situations especially under field conditions to deal with feeding the animal under special condition..
- 12) Using of the available resources efficiently in the development of new techniques and work to find new resources.
- 13) Being aware with his role in society development through increasing animal wealth.
- 14) Acting with integrity, credibility and according to the rules of profession.
- 15) Realizing the importance of self and life-long learning and progress.

المقررات التي تحقق المعايير الأكاديمية للبرنامج

Code	Name
649	Animal nutrition (advanced)
650	Feed stuffs (components and additives)
651	Farm animals and fish nutrition
652	Birds and rabbit nutrition
653	Nutrition of wild animals
654	Laboratory animal nutrition
659	Pathology of nutritional deficiencies
645	Physiology of digestion, metabolism and energy
645	Wild animals and birds behaviour and management
646	Bird and rabbit behaviour and management
707	Food analysis (specific courses)
635	Chemistry of nutrition
632	Metabolism

مقارنة ما يقدمه البرنامج من نتائج تعليمية مستهدفة مع المعايير المرجعية القياسية

A) Knowledge and understanding

Adopted ARS		NARS (PhD)
	<i>By the end of this program the graduate should understand and accommodate the following:</i>	<i>By the end of this program the graduate should understand and accommodate the following:</i>
1)	Recent theories, principles and knowledge in ration formulation for animals and recent feed additives	Recent theories, principles and knowledge in the field of specialization and related areas
2)	Basics methodologies and ethics of scientific research and its tools including feed analysis and ration formulation.	Basics, methodologies and ethics of scientific research and its different tools
3)	Principles of feed evaluation and presenting animal products fit for human consumption.	Legal and ethical principles of professional practice in the area of specialization
4)	basics of quality assurance and feed mill hygiene in feed industries	Principles and the basics of quality assurance in the area of professional practice in the field of specialization
5)	Awareness with the role of nutrition on the animal wealth and methods for enhancing animal health	Awareness with the effect of professional practice on the environment and methods of its maintain and development
6)	the effect of professional practice on the environment and methods of environmental development and maintenance	

B) Intellectual skills

Adopted ARS	NARS (PhD)
-------------	------------

	<i>By the end of this program the graduate should understand and accommodate the following:</i>	<i>By the end of this program the graduate should understand and accommodate the following:</i>
1)	Analysis of data about ration formulation and requirements for each animal, comparing with feeding standards	Analyzing and evaluating information in the field of specialization and the eliciting from them
2)	Solving nutritional problems by identification of the cause of mal nutrition disease	Solving professional problems using available data
3)	Performing scientific research studies that can give significant impact on the treatment of metabolic diseased animals.	Conducting scientific research studies that add to knowledge
4)	Formulating scientific papers nutrition and clinical nutrition.	Formulating scientific papers
5)	Risk-assessment of metabolic and nutritional deficiency diseases.	Risk-assessment in the field of specialization
6)	Planning to enhance growth performance and carcass quality of animal and poultry.	Planning to enhance the performance in field of specialization
7)	Making professional decisions for selecting the ideal method of ration formulation and feed analysis.	Making professional decisions under different professional contexts
8)	Trying new feed additives which enhance production.	Creation and innovative in the area of specialization
9)	Dialogue and discussion based on nutrition and clinical nutrition evidences and proofs	Dialogue and discussion based on evidences and proofs

C) Professional and practical skills

	Adopted ARS	NARS (PhD)
	<i>By the end of this program the graduate should understand and accommodate the following:</i>	<i>By the end of this program the graduate should understand and accommodate the following:</i>
1)	Mastering basic and modern professional skills in diagnosis of nutritional deficiency disease, and detection of mycotoxins.	Mastering basic and modern professional skills in the area of specialization
2)	Writing and evaluating professional medicolegal and nutritional reports involving feeding systems and requirements for each animal, comparing with feeding standards	Writing and evaluating professional reports
3)	Evaluating and modernizing methods and tools in animal nutrition and clinical nutrition.	Evaluating and modernizing methods and tools in the area of specialization
4)	Using modern technological means in ration formulation to increase animal production.	Using modern technological means to serve professional practice
5)	Planning for the improvement of veterinary medicine by applying recent molecular techniques in nutrition , and developing performance of others	Planning for the improvement of professional practice and developing performance of others

D) General and transferable skill

Adopted ARS		NARS (PhD)
	<i>By the end of this program the graduate should understand and accommodate the following:</i>	<i>By the end of this program the graduate should understand and accommodate the following:</i>
1)	Effective communication with nutritionist, students and veterinarians.	Effective communication
2)	Utilizing information technology to serve development of Nutrition and Clinical nutrition practice	Utilizing information technology to serve development of professional practice
3)	Teaching others and evaluating their performance	Teaching others and evaluating their performance
4)	Self-assessment and continuous learning	Self-assessment and continuous learning
5)	Using different resources to obtain knowledge and information	Using different resources to obtain knowledge and information
6)	Team working and leading a team in familiar professional contexts	Team working and leading a team in familiar professional contexts
7)	Management of scientific meetings with the ability to manage time efficiently	Management of scientific meetings with the ability to manage time efficiently

