



## ARS for PhD in Veterinary Medical Sciences (Medicine)

### 1) **Graduate attributes**

*The graduate should have the ability for:*

- 1) Designing experiment protocol or choice research point and knowing how to analysis the data and summarized the results.
- 2) Making continuous effort to add knowledge in animal medicine diseases subject through study new points or subjects in animal medicine diseases in either diagnosis, treatment or prevention.
- 3) Using the analytical protocols of animal medicine diseases problems. Criticizing the idea of other researcher in dealing with animal medicine diseases problems either positively or negatively.
- 4) Integrating specialized knowledge with related information about animal medicine diseases aspects and extrapolating their interrelationship.
- 5) Showing wide range of awareness about outbreaks of animal medicine diseases and problems of diagnosis, treatment and prevention of it. As well as new theories in the field of animal medicine diseases.
- 6) Identification of problems and difficulties in diagnosis, treatment and prevention of animal medicine diseases and suggesting innovative solutions such as new diagnostic tools, and new drugs or vaccines for treatment and prevention.
- 7) Using the diagnostic tools in the field and modern diagnostic techniques in the laboratory and able to perform wide range of treatment and control techniques.
- 8) Using the newly modern techniques and methodology either in research study or field practice with diseased animal.
- 9) Using the newly developed software in epidemiological study of different diseases outbreaks and interpreting the laboratory experiments results.
- 10) Leading the work team in the laboratory or the field effectively and in professional manner.
- 11) Taking suitable decision depending on the available data and can support his decision.
- 12) Using the available resources to diagnosis, treatment, and control of animal medicine diseases and creating new resources of the available materials to be used as diagnostic, curative, or prophylactic tools.
- 13) Using the acquired knowledge and experience in saving animal health and protect them against the maimal medicine diseases as of his role in society development and community preservation.
- 14) Dealing with scientific researches and animals in the field of study or work with integrity, credibility and according to the rules of profession.
- 15) Continuous self-learning and long life updating of knowledge and development of all aspect of animal medicine diseases and related aspects. Transferring this experience to others.

## المقررات التي تحقق المعايير الأكاديمية للبرنامج

721	Advanced animal medicine
722	Ruminant animals medicine and therapeutics
723	Equine animals medicine and therapeutics
724	Pet animals medicine and therapeutics
725	Zoo and wild animals medicine and therapeutics
726	Metabolic diseases
727	Nutritional deficiencies
728	Skin diseases
729	Diseases of newly born animals
730	Cattle infectious diseases
731	Sheep and goats infectious diseases
732	Camel infectious diseases
733	Equine infectious diseases
734	Pet animals infectious diseases
735	Laboratory animal infectious diseases
736	Udder and calves infectious diseases
737	Buffalo infectious diseases
738	Wild animal infectious diseases
693	Specific parasitology (advanced)
671	Hematology and Bone marrow examination
758	Experimental surgery
672	Bacteriology (general)
674	Immunology (advanced)
679	Diagnostic microbiology
694	Veterinary pharmacology (general and advanced)
769	Farm animal hygiene (advanced)

## 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)	Recognizing theories, principles, and the recent data in the field of animal medicine diseases diagnosis, treatment, and prevention as well as the veterinary epidemiology.	Recent theories, principles and knowledge in the field of specialization and related areas
2)	Realizing the legal and ethical basics of scientific research of animal medicine diseases and veterinary epidemiology.	Basics, methodologies and ethics of scientific research and its different tools
3)	Applying the basics and ethics of scientific research	Legal and ethical principles of

	in animals medicine diseases and veterinary epidemiology.	professional practice in the area of specialization
4)	Realizing Principles and basics of quality assurance in practice of veterinary medicine and specially how to deal with animal medicine diseases.	Principles and the basics of quality assurance in the area of professional practice in the field of specialization
5)	Identifying mutual effect between the advance of diagnosis, treatment and control of animal medicine diseases and the environment.	Awareness with the effect of professional practice on the environment and methods of its maintain and development

## 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)	Analyzing and evaluate scientific information of animal medicine diseases and veterinary epidemiology scientific research. And summarizing and eliciting from them	Analyzing and evaluating information in the field of specialization and the eliciting from them
2)	Finding solutions of problems animals medicine diseases field problems depending on the available resources.	Solving professional problems using available data
3)	Preparing a good research plan to add new knowledge to the field of diagnosis or treatment or control of animals medicine diseases and apply new epidemiological investigation.	Conducting scientific research studies that add to knowledge
4)	Managing scientific arguments and papers based on evidences and proofs.	Formulating scientific papers
5)	Assessing risks related to animals medicine diseases and veterinary epidemiology.	Risk-assessment in the field of specialization
6)	Planning to enhance the performance and practice in field of animal medicine diseases and veterinary epidemiology.	Planning to enhance the performance in field of specialization
7)	Making professional decisions and suggestion for dealing with field problem under different contexts.	Making professional decisions under different professional contexts
8)	Creating new ideas, methods, techniques and new solutions of animal imedicine diseases field problems.	Creation and innovative in the area of specialization
9)	Discussing the obtained results with the findings of previous authors and to explain the encountered differences.	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)	Adopting basic and new professional skills in animal medicine diseases and veterinary epidemiology.	Mastering basic and modern professional skills in the area of specialization
2)	Writing case report, detailed treatment, and preventive strategies for animal medicine diseases, and evaluating new diagnostics, and control strategies.	Writing and evaluating professional reports
3)	Assessing and improving methods and tools in the field of animal medicine diseases and veterinary epidemiology.	Evaluating and modernizing methods and tools in the area of specialization
4)	Using the new suitable technological methods to provide accurate, good and rapid diagnosis, treatment and control of animal medicine diseases.	Using modern technological means to serve professional practice
5)	Planning to self-continuous development and development of the 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)	Communicating effectively	Effective communication
2)	Using information technology to serve the survey, diagnosis, treatment and control of animal medicine diseases.	Utilizing information technology to serve development of professional practice
3)	Educating others and assess their performance.	Teaching others and evaluating their performance
4)	Involving self and continuous learning and evaluation.	Self-assessment and continuous learning
5)	Utilizing different sources of knowledge and information.	Using different resources to obtain knowledge and information
6)	Working in team and show leadership skills.	Team working and leading a team in familiar professional contexts
7)	Managing the time efficiently that enable them to organize work.	Management of scientific meetings with the ability to manage time efficiently