ARS for PhD in Veterinary Medical Sciences (Parasitology)

1) Graduate attributes

The graduate should have the ability for:

1) Mastering the basics and methodologies of scientific research in Parasitology.
2) Making continuous effort to add knowledge in microscopical and immunological methods in Parasitology.
3) Application of analytical and criticizing method in Parasitology and related areas.
4) Interpreting the laboratory investigations in parasitology and serology.
5) Showing deep awareness with the ongoing problems and modern molecular theories in Parasitology.
6) Understand and interpret different reports in Parasitology.
7) Mastering a wide range of professional skills in Parasitology.
8) Acquiring trends towards developing modern methods and tools in professional practice.
9) Develop new assays to identify the pathogenic parasites of veterinary and zoonotic significance.
10) Effective communication and leading work team through professional scale.
11) Decision making in different professional situations.
12) Employment and development of available resources efficiently and working on finding new ones.
13) Awareness with his role in society development and community preservation from different parasitic infestations.
14) Acting with integrity, credibility and according to the rules of profession.
15) Commitment with continuous self and life-long development and transferring of his knowledge and experience to others.

المقررات التي تحقق المعايير الأكاديمية للبرنامج

Code	Name
627	Physiology of blood and immunity system
639	Microbial biochemistry and biotechnology
660	Pathology of microbial and parasitic animal diseases
669	Clinical pathology (advanced)
684	Veterinary medical entomology
685	Helminthology
686	Protozoology
687	Parasites of birds
688	Parasites of fish
689	Snails and their veterinary significance
690	Parasitic immunology
691	Clinical parasitology

692	Parasites of wild animals
693	Specific parasitology (advanced)
711	Hygiene of slaughter animal
730	Cattle infectious diseases
731	Sheep and goat infectious diseases
732	Camel infectious diseases
733	Equine infectious diseases
734	Pet animal infectious diseases
737	Buffalo infectious diseases
763	Parasitic diseases of poultry
765	Wild and migratory birds diseases
766	Rabbits diseases (advanced)
773	Control of pests and disease vectors
777	Epidemiology of animal and bird diseases
778	Zoonoses - advanced
811	Microbial aquatic diseases (specific courses)
812	Parasitic aquatic diseases (specific courses

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

A) Knowledge and understanding

	Adopted ARS	NARS (Master)
	By the end of this program the graduate should understand and accommodate the following:	***By the end of this program the graduate should understand and accommodate the following:***
1)	Recent theories, principles and knowledge in mechanisms and pathogenesis of parasitic infestations in addition the immune responses to parasites	Recent theories, principles and knowledge in the field of specialization and related areas
2)	Basics and moral ethics of scientific research in the field of Parasitology and its different tools	Basics, methodologies and ethics of scientific research and its different tools
3)	Legal and ethical principles of control, prevention and eradication of parasitic diseases.	Legal and ethical principles of professional practice in the area of specialization
4)	Outline the principles of laboratory safety and regulations in laboratory of Clinical Parasitology	Principles and the basics of quality assurance in the area of professional practice in the field of specialization
5)	Awareness with the effect of parasites on the animal body and production of milk and meat.	Awareness with the effect of professional practice on the environment and methods of its maintain and development
6)	Recognize the different molecular and serological protocols for parasitic diagnosis	

B) Intellectual skills

	Adopted ARS	NARS (Master)
	By the end of this program the graduate should understand and accommodate the following:	***By the end of this program the graduate should understand and accommodate the following:***
1)	Analyzing and evaluating microscopical and serological tests and extrapolating from them	Analyzing and evaluating information in the field of specialization and the eliciting from them
2)	Solving professional problems in diagnosis and control of parasitic diseases using available data	Solving professional problems using available data
3)	Performing scientific research studies that add to knowledge in parasitology	Conducting scientific research studies that add to knowledge
4)	Formulating scientific papers and publishing them in international journals	Formulating scientific papers
5)	Design a Risk Assessment Form and performing a Risk Assessment for an item within parasitology laboratory	Risk-assessment in the field of specialization
6)	Planning to enhance the performance in the laboratory diagnosis of parasitic diseases using molecular techniques.	Planning to enhance the performance in field of specialization
7)	Using appropriate intellectual strategy to deal with laboratory diagnostic problems.	Making professional decisions under different professional contexts
8)	Creation of new biotechnological techniques that aid in identification of different stages of parasites	Creation and innovative in the area of specialization
9)	Develop a trial and error method to encourage learning and practice.	Dialogue and discussion based on evidences and proofs

C) Professional and practical skills

	Adopted ARS	NARS (Master)
	By the end of this program the graduate should understand and accommodate the following:	***By the end of this program the graduate should understand and accommodate the following:***
1)	Mastering basic and modern professional skills in isolation and identification of parasites and their infective stages	Mastering basic and modern professional skills in the area of specialization
2)	Writing and evaluating professional reports in Parasitology and serology	Writing and evaluating professional reports
3)	Evaluating and modernizing methods and tools in parasitology	Evaluating and modernizing methods and tools in the area of specialization
4)	Using modern technological means to serve protect animals against parasitic infestations and diseases transmitted by insects	Using modern technological means to serve professional practice
5)	Planning for the improvement of veterinary medicine by applying molecular techniques 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 (Master)
	By the end of this program the graduate should understand and accommodate the following:	***By the end of this program the graduate should understand and accommodate the following:***
1)	Effective communication with colleagues, students and veterinarians.	Effective communication
2)	Utilizing information technology to serve development of clinical Parasitology 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