



University of Sadat City  
Faculty of Veterinary Medicine  
(2014-2015)



## ARS for Master in Veterinary Medical Sciences (Parasitology)

### Graduate attributes

*The graduate should have the ability for:*

- (1) Perfect application of scientific research basics and methodologies, and using its various tools.
- (2) Application and use of analytical microscopical and immunological methods in Parasitology.
- (3) Application of gained specialized knowledge in Biochemistry, Clinical pathology, Pharmacology, Microbiology, and integrating them with the relevant knowledge in Parasitology.
- (4) Awareness with appropriate investigations for diagnosis of parasitic diseases and monitoring of its prevention and control.
- (5) Understanding the limitations of diagnostic investigations.
- (6) Mastering the proper scope of a rate specialized professional skills, and using appropriate technological means to serve the professional practice.
- (7) Effective communication and leading work team.
- (8) Realizing the basics of antiparasitic drugs and chemical usage and safety; lab animal management and scientific paper writing.
- (9) Employ available resources efficiently.
- (10) Awareness with his role in society development and community preservation in the light of global and regional variations.
- (11) Reflection of the commitment to act with integrity, credibility and the rules of profession.
- (12) Academic and professional self- development and ability for life-long learning and progress.

**المقررات التي تحقق المعايير الأكاديمية للبرنامج**

Code	Name
--	Parasitology (basic course)
-	Research Methodology
627	chemotherapy
660	Pathology of microbial and parasitic animal diseases
669	Clinical pathology (advanced)
711	Hygiene of slaughter animal

763	Parasitic diseases of poultry
765	Wild and migratory birds diseases
766	Rabbits diseases (advanced)
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
773	Control of pests and disease vectors
812	Parasitic aquatic diseases (specific courses
777	Epidemiology of animal and bird diseases
778	Zoonoses - advanced

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

#### A) Knowledge and understanding

Adopted ARS		NARS
	<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)	Theories and basic principles of parasitology and clinical parasitology.	Theories and principles in the field of specialization and related fields.
2)	Illustrate the host parasite relationship and microbial pathogenesis and their impact on environment	Mutual effect between professional practice and its impact on environment
3)	Recognize the general properties of parasite pathogenicity and different methods of diagnosis of parasitic diseases	Scientific progress in the field of specialization
4)	Outline the principles of laboratory safety and regulations (laboratory hazards and protective equipment)	Legal and ethical basics in professional practice in the field of specialization
5)	Describe the most important methods of decontamination, sterilization and principles of infestation control.	Principles and basics of quality assurance in the area of specialization
6)	Basics and ethics of scientific research.	Basics and ethics of scientific research

#### B) Intellectual skills

<b>Adopted ARS</b>		<b>NARS</b>
	<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)	Integrate the results of clinical and laboratory test findings into a meaningful diagnostic formulation	Analysis and judgment of information in the field of specialization and analog to solve problems.
2)	Interpreting results of parasitological, serological and molecular tests.	Solving professional problems even in scarcity of data.
3)	Development of creative approaches to solve technical problems or issues associated with running and researches project.	Relating between different knowledge to solve professional problems.
4)	Identification, summarizing and evaluating prior researches finding in Parasitology.	Preparing research plan in specialization and/ or writing scientific article on a research problem.
5)	Evaluate different laboratory data with normal and reference values and formulate diagnosis after excluding non-specific interpretation	Risk-assessment of professional practices in specialization.
6)	Using appropriate intellectual strategy and evidence based decisions to deal with uncertainty and laboratory diagnostic problems Develop plans to improve performance in laboratory practice with automation	Planning for improvement of professional performance.
7)	Using appropriate intellectual strategy to deal with laboratory diagnostic problems.	Taking professional decisions in a variety of professional contexts.

### C) Professional and practical skills

<b>Adopted ARS</b>		<b>NARS</b>
	<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)	Investigating using recent techniques and tools necessary to diagnose and characterize parasitic diseases of veterinary importance.	Mastering basic and recent professional skills in the field of specialization
2)	Writing and Interpreting	Writing and evaluating professional



	parasitological, immunological and molecular reports	reports.
3)	Planning a research project in the field of veterinary Parasitology with a consideration to the technical, ethical and safety issues and associated costs.	Evaluating existing materials and methods in the area of specialization.
4)	Performing essential laboratory skills that underpin techniques associated with sampling and different techniques for parasite identification	
5)	Use the different diagnostic methods related to clinical parasitology (Photometric, ELISA, RIA, PCR), and make comment on it and evaluate methods and instruments related to allergic tests	

#### D) General and transferable skill

<b>Adopted ARS</b>		<b>NARS</b>
	<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 with teaching staff, colleagues and the community.	Effective communication.
2)	Using information technology in scientific research and publications.	Utilizing information technology to serve development of professional practice.
3)	Demonstrating appropriate attitude towards teaching staff and colleagues.	Self-assessment and determination of personal educational needs.
4)	Identifying and use different sources of information and knowledge.	Using different resources to obtain knowledge and information.
5)	Using appropriate attitude and rules towards teaching staff and colleagues and use evidence based evaluations.	Establishing rules and indicators for assessment of the performance of others.
6)	Respecting the importance of team work.	Team working and leading a team in familiar professional contexts.
7)	Doing good control of timing.	Efficient time management.
8)	Performing continuous self-learning.	Self and continuous learning.