ARS for Master in Veterinary Medical Sciences
(Infectious Diseases)

Graduate attributes

The graduate should have the ability for:

1) Efficient application of the basics and methodologies of scientific research and using its different tools to do his master thesis and subsequent research work and field studies.
2) Using the analytical protocols of animal infectious diseases problems.
3) Integrating specialized knowledge with related information about animal infectious diseases aspects and extrapolating their interrelationship.
4) Showing awareness about outbreaks of animal infectious diseases and problems of diagnosis, treatment and prevention of it. As well as new theories in the field of animal infectious diseases.
5) Identification of problems and difficulties in diagnosis, treatment and prevention of animal infectious diseases and suggesting innovative solutions.
6) Using the diagnostic tools in the field and modern diagnostic techniques in the laboratory efficiently and able to perform wide range of treatment and control techniques.
7) Communicating effectively with the work team and leading it.
8) Taking suitable decision depending on the available data
9) Using the available resources to diagnosis, treatment, and control of animal infectious diseases and save the available resources.
10) Awareness with his role in society development and community preservation in the light of global and regional variations through his effort of diagnosis, treatment and control of animal infectious diseases and animal wealth save.
11) Dealing with public, farmers, owners and academic communities with integrity, credibility and the rules of veterinary medicine and research.
12) Continuous self-learning and long life updating of knowledge and development of all aspect of animal infectious diseases and related aspects.

المقررات التي تحقق المعايير الأكاديمية للبرنامج

Code	Name
730	Cattle infectious diseases
731	Sheep and goat infectious diseases
732	Camel infectious diseases
733	Equine infectious diseases
734	Pet animal infectious diseases
735	Laboratory animal infectious diseases
736	Udder and calves infectious diseases
737	Buffalo infectious diseases
738	Wild animal infectious diseases
720	General medicine (advanced)
721	Ruminant animal medicine
722	Equine medicine
724	Pet animal medicine
728	Dermal diseases
729	Diseases of newly born animals
693	Specific parasitology (advanced)
680	General virology
682	Viral immunology
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
	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)	Theories and principles of animals infectious diseases and veterinary epidemiology and basic science.	Theories and principles in the field of specialization and related fields.
2)	Mutual effect between the infectious diseases occurrence and prognosis and its impact on environment.	Mutual effect between professional practice and its impact on environment
3)	Scientific progress in the animal infectious diseases causes, diagnosis, treatment and prevention and epidemiological studies.	Scientific progress in the field of specialization
4)	Legal and ethical basics in veterinary practice in the field during disease handling or research work.	Legal and ethical basics in professional practice in the field of specialization
5)	Principles and basics of quality assurance in methods of diagnosis, treatment and prevention as well as epidemiological description of animal infectious diseases.	Principles and basics of quality assurance in the area of specialization
6)	Basics and ethics of scientific research during master thesis preparation and subsequent research work.	Basics and ethics of scientific research

B) Intellectual skills

	Adopted ARS	NARS
	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)	Analysis and judgment of information about infectious diseases problems in hi locality and outside it to be able for solve analog problems facing him.	Analysis and judgment of information in the field of specialization and analog to solve problems.
2)	Using his experience and store of information for solving mystery of animal infectious problems even in scarcity of data.	Solving professional problems even in scarcity of data.
3)	Relating between the pattern of diseases occurrence, signs of the disease and the ecological condition to control the infectious diseases or prevent its occurrence or entrance to the country.	Relating between different knowledge to solve professional problems.
4)	Preparing research plan in animal infectious diseases aspects and veterinary epidemiology and/ or writing scientific article on a research problem or field observation.	Preparing research plan in specialization and/ or writing scientific article on a research problem.
5)	Taking care about the zoonotic diseases, which can transmitted to him from the field study and toxic chemical and injury during laboratory work.	Risk-assessment of professional practices in specialization.
6)	Planning for to learn and practice on new techniques and apparatus used for diagnosis or treatment of animal infectious diseases and new approaches of its prevention.	Planning for improvement of professional performance.
7)	Taking professional decisions in a variety of animal infectious diseases problems on individual and stock scale.	Taking professional decisions in a variety of professional contexts.

C) Professional and practical skills

	Adopted ARS	NARS
	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 recent professional skills of veterinary epidemiology, diagnosis, treatment and prevention and information dissemination of animal infectious diseases.	Mastering basic and recent professional skills in the field of specialization
2)	Writing and evaluating epidemiological report about different disease and case reports as well as treatment and preventive protocols.	Writing and evaluating professional reports.
3)	Evaluating existing materials and methods used for veterinary infectious diseases researches or field practice.	Evaluating existing materials and methods in the area of specialization.

D) General and transferable skill

	Adopted ARS	NARS
	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)	Communicate effectively with his professors, collages, and animal owner(s) as well as has the ability for effective public communication.	Effective communication.
2)	Utilizing information technology to improve his skills of diagnosis, treatment and control of animal infectious diseases.	Utilizing information technology to serve development of professional practice.
3)	Set tools and indicators for assessment of his performance and determine his continues educational needs.	Self-assessment and determination of personal educational needs.
4)	Enrichment his knowledge and	Using different resources to obtain knowledge and

	information about animal infectious diseases and keep updating through using of different sources of knowledge and information.	information.
5)	Establishing rules and indicators for assessment of the performance of others.	Establishing rules and indicators for assessment of the performance of others.
6)	Team working and leading a team in familiar professional contexts.	Team working and leading a team in familiar professional contexts.
7)	Efficient time management.	Efficient time management.
8)	Self and continuous learning.	Self and continuous learning.