



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



Program Title: Master in Veterinary Medical Sciences
(Animal Behavior and Management)

A. ADMINISTRATIVE INFORMATION

| | |
|--------------------------------|--|
| University: | Sadat City |
| Faculty: | Veterinary Medicine |
| Program title: | Master in Veterinary Medical Sciences (Animal Behavior and Management) |
| Final award: | MVSc Degree (Animal Behavior and Management) |
| Registration period | 2-4 years. An extension for a maximum of 2 years could be approved. |
| Department responsible: | Husbandry and Animal Wealth Development |
| Program Coordinators | Prof. Dr. Hamada D.H. Mahboub |
| External evaluator: | ا.د. أسامه السيد محروس أستاذ السلوكيات جامعة دمنهور |

B. PROFESSIONAL INFORMATION

1) Overall aims of program

- Provides graduates the opportunity to develop communication and teaching skills and the experience of scientific research.
- Develops the ability of graduate to engage critically with recent techniques and tools in the field of Animal, Poultry and Fish Behavior and Management.
- Supplies the graduates with the most recent knowledge in science and technological applications in Animal, Poultry and Fish Animal, Poultry and Fish Behavior and Management.
- Demonstrates an awareness of the connections between disciplines and develop the ability to engage critically with scientific literature and to critically review and present their own research data for the protection and promotion of the Animal, Poultry and Fish Behavior and Management.
- Allows graduates to develop practical research project.
- Enables graduates to achieve competency in modern Animal and Poultry Behavior and Management technology.

2) Academic standards

Academic reference standards (ARS) adopted by the Faculty committee No 152 (18-6-2014).

3) Graduate attributes

Upon successful completion of the program, the graduate has the ability for:

The graduate should have the ability for:

- (1) Perfect application of scientific research basics and methodologies in Animal, Poultry and Fish Behavior and Management, and using its various tools.
- (2) Application and use of analytical methodology in the field of Animal, Poultry and Fish Behavior and Management.
- (3) Application of gained specialized knowledge and integrating them with the relevant knowledge in Animal, Poultry and Fish Behavior and Management.
- (4) Awareness with current problems and recent visions in Animal, Poultry and Fish Behavior and Management.
- (5) Identification of animal, poultry and fish behavioral and managerial problems suggesting suitable and economic solutions.
- (6) Mastering an appropriate scale of specific professional skills, and using suitable technological means to serve professional practice.
- (7) Effective communication with students, animal breeders and owners of animal, poultry and fish farms and leading work team.
- (8) Decision making in various animal and poultry production contexts.
- (9) Employment of the available resources efficiently to improve animal, poultry and fish performance and solving their behavioral problems.
- (10) Awareness with his role in society development and to understand animal,

poultry and fish behavior and their proper management to achieve high productivity as well as animal welfare, with preservation of a clean environment..

(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.

4) Intended learning outcomes of course (ILOs)

a) Knowledge and understanding

By the end of this program the graduate should be able to:

- a.1. Explain different theories and principles in the field of animal, poultry and fish behavior and management and related fields.
- a.2. Identify the impact of different management systems on animal, poultry and fish behavior and performance and its reflection on the environment
- a.3. Distinguish the scientific developments in the field of animal, poultry and fish behavior and management.
- a.4. Demonstrate the ethical and legal principles for professional practice in the field of animal, poultry and fish behavior and management.
- a.5. Realize the principles and basics of quality assurance in the area of animal, poultry and fish behavior and management.
- a.6. Apply the basics and ethics of scientific research in the field of animal, poultry and fish behavior and management
- a.7. Realize the legal and ethical basics in the field of animal, poultry and fish behavior and management

b) Intellectual skills

By the end of this program the graduate should be able to:

- b.1. Analyze and judge the methods of behavior measuring, information collected from animal, poultry and fish farms on the basis of behavioral and performance indices.
- b.2. Determine an accurate approach to behavioral and managerial problems and find the solution based on the available data.
- b.3. Relate between the various sources of knowledge to solve abnormal animal behavior and management problems in different animal, poultry and fish systems.
- b.4. Develop a research proposal in the field of animal, poultry and fish behavior and management and/ or write scientific article on a research problem.
- b.5. Assess risks of professional practices in animal, poultry and fish behavior and management and their possible consequences.
- b.6. Plan to maximize welfare as well as performance of animal, poultry and fish in different management systems.

b.7. Make professional decisions and suggestions in dealing with behavioral and productive problems in animals, poultry and fish.

c) **Professional and practical skills**

By the end of this program the graduate should be able to:

- c.1. Master the fundamental and recent professional skills in the field of animal, poultry and fish behavior and management.
- c.2. Write and assess professional and conclusive report about the animal, poultry and fish behavior and management.
- c.3. Assess the existing methods and tools in the field of animal, poultry and fish behavior and management.
- c.4. Plan a research project in the field of animal, poultry and fish behavior and management with a consideration to the technical, ethical and safety issues and associated costs..
- c.5. Perform essential skills that underpin techniques associated with experimental design, collecting, summarizing, organizing, presenting and analyzing data

d) **General and transferable skill**

By the end of this program, the graduate should be able to:

- d.1. Communicate effectively with his professors, collages and animal owner(s).
- d.2. Utilize different sources of knowledge and information.
- d.3. Assess him-self and identify his personal educational needs.
- d.4. Demonstrate interpersonal skills and team working ability
- d.5. Demonstrate an ability to learn independently for a career of lifelong learning.
- d.6. Use information technology to serve the professional practice.
- d.7. Manage time efficiently.
- d.8. Set tools and indicators for assessment of the performance of others.

5) Program structure:

a) **Premaster courses – at least one academic year**

| | Lecture (hours/week) | Practical (hours/week) |
|------------------------------------|---|------------------------|
| Fundamental (core) course | 3 | 4 |
| Research methodology | 1 | 3 |
| 3-4 Elective Courses (10-12 hours) | Offered by other departments and are selected from the list below according to thesis topic | |

b) **MVSc Thesis (at least one academic year)**

- All master-degree students should prepare a master thesis.
- The department and the ethical committees must approve the protocol of the research.
- The thesis should include a review part and a research part.

- The thesis is supervised by one or more senior staff members of the department responsible for the program and may include other specialties according to the nature of the research.
- The thesis should be evaluated and approved by a committee of three professors including one of the supervisors and an external professor.

| Elective Courses for master students | | | | |
|---|---|-------------------|------------------|--|
| Code | Course | Hours/week | | Department |
| | | Lecture | Practical | |
| 601 | Applied anatomy | 2 | 2 | Anatomy & Embryology |
| 602 | Arterial & nerve supply, and surface anatomy | 2 | 2 | |
| 603 | Osteology and arthrology | 2 | 2 | |
| 604 | Comparative digestive system | 2 | 2 | |
| 605 | Comparative urogenital system | 2 | 2 | |
| 606 | Comparative respiratory System | 2 | 2 | |
| 607 | Comparative cardiovascular system, lymphatic system and heart | 2 | 2 | |
| 608 | Comparative nervous system and endocrine glands | 2 | 2 | |
| 609 | General and special embryology | 2 | 2 | |
| 610 | Avian anatomy | 1 | 2 | |
| 611 | Cytology and cytochemistry | 2 | 2 | Cytology and histology |
| 612 | General histology | 2 | 2 | |
| 613 | Histological and histochemical structure of blood, lymphatic & cardiovascular systems and heart | 2 | 2 | |
| 614 | Histological and histochemical structure of respiratory system | 2 | 2 | |
| 615 | Histological and histochemical structure of digestive system | 2 | 2 | |
| 616 | Histological and histochemical structure of urogenital system | 2 | 2 | |
| 617 | Histological and histochemical structure of nervous system and endocrine glands | 2 | 2 | |
| 618 | Histological and histochemical structure of integument, hoof, claws and nails | 2 | 2 | |
| 619 | Avian histology | 2 | 2 | |
| 620 | Circulatory and immune systems | 2 | 2 | |
| 621 | Physiology of endocrine glands & reproduction in mammals | 2 | 2 | Physiology |
| 622 | Avian physiology (advanced) | 2 | 2 | |
| 623 | Fish physiology | 1 | 2 | |
| 624 | Nerve and muscle physiology | 2 | 2 | |
| 625 | Ruminant physiology | 2 | 2 | |
| 626 | Physiology of environment, adaptation, and cell | 2 | 2 | |
| 627 | Physiology of blood and immunity system | 2 | 2 | |
| 628 | Physiology of digestion, metabolism and energy | 2 | 2 | |
| 629 | Physiological changes associated with pollution | 1 | 2 | |
| 630 | Radioisotopes and their biological uses | 2 | 2 | |
| 631 | Biochemistry (advanced) | 2 | 2 | Biochemistry and Chemistry of Nutrition |
| 632 | Metabolism | 1 | 2 | |
| 633 | Biochemistry of tissues and body fluids | 2 | 2 | |
| 634 | Biochemistry of hormones and reproduction | 2 | 2 | |
| 635 | Chemistry of nutrition | 2 | 2 | |
| 636 | Clinical biochemistry | 2 | 2 | |

| | | | | |
|-----|--|---|---|--|
| 637 | Avian biochemistry | 2 | 2 | |
| 638 | Fish biochemistry | 2 | 2 | |
| 639 | Microbial biochemistry and biotechnology | 2 | 2 | |
| 640 | Radiation biochemistry | 1 | 2 | |
| | | | | |
| | | | | |
| | | | | Husbandry and Animal Wealth Development |
| | | | | |
| 649 | Animal nutrition (advanced) | 2 | 2 | |
| 650 | Feed stuffs (components and additives) | 2 | 2 | |
| 651 | Farm animals and fish nutrition | 2 | 2 | |
| 652 | Birds and rabbit nutrition | 2 | 2 | Nutrition and Clinical Nutrition |
| 653 | Nutrition of wild animals | 1 | 2 | |
| 654 | Laboratory animal nutrition | 1 | 2 | |
| 655 | Feed stuff analysis | 2 | 2 | |
| 656 | Feeds and feed industry hygiene | 2 | 2 | |
| 657 | Clinical nutrition | 2 | 2 | |
| 659 | General pathology and oncology (advanced) | 2 | 2 | |
| 660 | Pathology of microbial and parasitic animal diseases | 2 | 2 | |
| 661 | Pathology of nutritional deficiencies | 1 | 2 | |
| 662 | Environmental pathology | 1 | 2 | |
| 663 | Pathology of reproduction | 1 | 2 | Pathology |
| 664 | Pathology of poultry | 2 | 2 | |
| 665 | Fish pathology | 1 | 2 | |
| 666 | Experimental Pathology | 1 | 2 | |
| 667 | Toxicological pathology | 2 | 2 | |
| 668 | Surgical pathology | 2 | 2 | |
| 669 | Clinical pathology (advanced) | 2 | 2 | |
| 670 | Evaluation of organ functions, body fluids balance and urine | 2 | 2 | Clinical Pathology |
| 671 | Diagnosis of hematological disorders and bone marrow investigation | 1 | 2 | |
| 672 | Bacteriology (general) | 1 | 2 | |
| 673 | Bacteriology (special) | 2 | 3 | |
| 674 | Immunology (advanced) | 1 | 2 | |
| 675 | Mycology (advanced) | 2 | 3 | Bacteriology, Mycology and Immunology |
| 676 | Microbiology of fish | 2 | 2 | |
| 677 | Microbiology of birds and rabbits | 1 | 2 | |
| 678 | Microbiology of invertebrates | 1 | 2 | |
| 679 | Diagnostic microbiology | 2 | 2 | |
| 680 | General virology | 1 | 2 | |
| 681 | Special virology | 2 | 2 | Virology |
| 682 | Viral immunology | 1 | 2 | |
| 683 | Viral vaccines | 2 | 3 | |
| 684 | Veterinary medical entomology | 2 | 2 | |
| 685 | Helminthology | 2 | 2 | |
| 686 | Protozoology | 2 | 2 | |
| 687 | Parasites of birds | 2 | 2 | Parasitology |
| 688 | Parasites of fish | 2 | 2 | |
| 689 | Snails and their veterinary significance | 1 | 2 | |
| 690 | Parasitic immunology | 1 | 2 | |
| 691 | Clinical parasitology | 2 | 2 | |

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|-----|--|---|---|--|
| 692 | Parasites of wild animals | 1 | 2 | |
| 693 | Specific parasitology (advanced) | 2 | 2 | |
| 694 | Veterinary pharmacology (General Advanced) | 2 | 2 | |
| 695 | Veterinary pharmacology, autonomic nervous system and local hormones | 2 | 2 | |
| 696 | Veterinary pharmacology and CNS | 2 | 2 | |
| 697 | Veterinary pharmacology and anaesthesia | 2 | 2 | |
| 698 | Veterinary pharmacology and systems | 2 | 2 | Pharmacology |
| 699 | Veterinary pharmacology and metabolism | 2 | 2 | |
| 700 | Pharmaceutical hormones | 2 | 2 | |
| 701 | Chemotherapy | 2 | 2 | |
| 702 | Drug toxicity | 1 | 2 | |
| 703 | Biological evaluation of drugs | 1 | 1 | |
| 704 | Dairy hygiene and control (advanced) | 2 | 2 | |
| 705 | Dairy microbiology | 2 | 2 | |
| 706 | Dairy technology and preservation | 2 | 2 | |
| 707 | Food analysis (specific courses) | 2 | 2 | |
| 708 | Specific courses in milk contamination and diseases transmitted by milk and hygiene of eggs, oils and fats | 1 | 2 | Food hygiene |
| 709 | Food poisoning | 1 | 2 | |
| 710 | Hygiene and control of dairy plants | 2 | 2 | |
| 711 | Hygiene of slaughter animal | 1 | 2 | |
| 712 | Hygiene and management of abattoirs | 2 | 2 | |
| 713 | Meat Hygiene and control | 2 | 2 | |
| 714 | Bird and rabbit meat hygiene | 1 | 2 | |
| 715 | Food technology | 1 | 2 | |
| 716 | Food microbiology | 2 | 2 | Food hygiene |
| 717 | Microbiology of animal byproducts | 1 | 1 | |
| 718 | Microbiology of fish and crustaceans | 1 | 2 | |
| 718 | Meat and fish analysis | 1 | 2 | |
| 719 | Hygiene and control of meat and fish plants | 2 | 2 | |
| 720 | General medicine (advanced) | 2 | 2 | |
| 721 | Ruminant animal medicine | 2 | 2 | |
| 722 | Equine medicine | 2 | 2 | |
| 724 | Pet animal medicine | 2 | 2 | Medicine and infectious diseases |
| 725 | Wild animal medicine | 2 | 2 | |
| 726 | Metabolic diseases | 2 | 2 | |
| 727 | Nutritional deficiency diseases | 2 | 2 | |
| 728 | Dermal diseases | 1 | 2 | |
| 729 | Diseases of newly born animals | 2 | 2 | |
| 730 | Cattle infectious diseases | 1 | 2 | |
| 731 | Sheep and goat infectious diseases | 2 | 2 | |
| 732 | Camel infectious diseases | 2 | 2 | |
| 733 | Equine infectious diseases | 2 | 2 | Medicine and infectious diseases |
| 734 | Pet animal infectious diseases | 2 | 2 | |
| 735 | Laboratory animal infectious diseases | 1 | 2 | |
| 736 | Udder and calve infectious diseases | 2 | 2 | |
| 737 | Buffalo infectious diseases | 1 | 1 | |
| 738 | Wild animal infectious diseases | 1 | 1 | |
| 739 | Forensic medicine and veterinary regulations | 2 | 2 | |
| 740 | General toxicology | 2 | 2 | Forensic Medicine, Toxicology, and Veterinary regulations |
| 741 | Environmental toxicology | 2 | 2 | |
| 742 | Forensic toxicology | 2 | 2 | |
| 743 | Clinical toxicology | 2 | 2 | |

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| 744 | Gynaecology (specific courses for ruminants, equines and pet animals) | 2 | 2 | Theriogenology |
| 745 | Andrology (specific courses for ruminants and pet animals) | 2 | 2 | |
| 746 | Obstetrics and diseases in animals | 2 | 2 | |
| 746 | Reproduction and immunity | 1 | 2 | |
| 747 | Artificial insemination in ruminants | 2 | 2 | |
| 748 | Artificial insemination in equines | 2 | 2 | |
| 749 | Artificial insemination in birds and pet animals | 1 | 2 | |
| 750 | Artificial insemination in rabbit | 1 | 2 | |
| 751 | Embryo transfer | 1 | 2 | |
| 752 | obstetrics and artificial insemination in wild animals | 1 | 2 | |
| 753 | General surgery (advanced) | 2 | 2 | Surgery, Anesthesiology and Radiology |
| 754 | Special surgery (organs) | 2 | 2 | |
| 755 | Ophthalmic surgery | 2 | 2 | |
| 756 | Surgery of the digestive system | 2 | 2 | |
| 757 | Surgery of limbs and diseases of hoof & claw | 2 | 2 | |
| 758 | Experimental surgery | 2 | 2 | |
| 759 | Anesthesiology | 1 | 1 | |
| 760 | Diagnostic imaging | 2 | 2 | |
| 761 | Bacterial diseases of poultry | 2 | 2 | |
| 762 | Viral diseases of poultry | 2 | 2 | |
| 763 | Mycotic diseases of poultry | 2 | 2 | |
| 763 | Parasitic diseases of poultry | 1 | 2 | |
| 764 | Nutritional deficiency diseases | 1 | 2 | |
| 765 | Wild and migratory birds diseases | 1 | 2 | |
| 766 | Rabbits diseases (advanced) | 2 | 2 | |
| 767 | Prevention in poultry field | 2 | 2 | |
| 768 | Laboratory diagnosis of poultry diseases | 2 | 2 | Hygiene and Zoonoses |
| 769 | Farm animal hygiene (advanced) | 2 | 2 | |
| 770 | Poultry hygiene (advanced) | 2 | 2 | |
| 771 | Environmental hygiene and pollution | 2 | 2 | |
| 772 | Combating epidemic diseases | 2 | 2 | |
| 773 | Control of pests and disease vectors | 2 | 2 | |
| 774 | Insecticides and animal hygiene | 2 | 2 | |
| 775 | Animal farm hygiene | 2 | 2 | |
| 776 | Disinfection and disinfectants | 2 | 2 | |
| 777 | Epidemiology of animal and bird diseases | 2 | - | |
| 778 | Zoonoses – advanced | 2 | 2 | Hygiene and Zoonoses |
| 779 | Role of rodents in transmission of zoonotic diseases | 2 | 2 | |
| 780 | Role of wild animals in transmission of zoonotic diseases | 2 | 2 | |
| 781 | Epidemiology of zoonotic diseases | 2 | - | |
| 782 | Prevention and control of zoonotic diseases | 2 | - | |
| 783 | Role of aquatic animals and fish in transmission of zoonotic disease | 2 | - | Husbandry and Animal Wealth Development |
| 784 | Genetic of microorganisms | 1 | 2 | |
| 785 | Genetic engineering (advanced) | 1 | 2 | |
| 786 | Cytogenetics | 1 | - | |
| 787 | Population genetics (advanced) | 2 | - | |
| 788 | Physiological genetics | 2 | - | |
| 789 | Biochemical and radiation Genetics | 1 | 2 | Husbandry and Animal Wealth Development |
| 790 | Advanced animal breeding and improvement (advanced) | 2 | - | |
| 791 | Advanced poultry breeding and improvement (advanced) | 2 | - | |
| 792 | Advanced cattle and buffalo production (advanced) | 2 | 2 | |
| 793 | Advanced sheep and goat production (advanced) | 2 | 2 | |

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|-----|--|---|---|--|
| 794 | Advanced poultry production (advanced) | 2 | 2 | |
| 795 | Advanced rabbit production (advanced) | 2 | 2 | |
| 799 | Economics of production and dairy farms | 2 | - | |
| 800 | Economics of poultry farms | 2 | - | |
| 801 | Economics of fish farms | 2 | - | Husbandry and Animal Wealth Development |
| 802 | Feasibility studies | 2 | - | |
| 803 | Animal farm management | 2 | - | |
| 804 | Economics of beef production farms | 2 | - | |
| 811 | Microbial aquatic diseases (specific courses) | 3 | 3 | |
| 812 | Parasitic aquatic diseases (specific courses) | 3 | 3 | Fish Medicine and Management |
| 813 | Non-infectious aquatic diseases (specific courses) | 3 | 3 | |
| 814 | Epidemiology of aquatic diseases | 2 | 1 | |
| 815 | Aquaculture | 3 | 1 | |
| 816 | Special studies in aquatic sciences | 2 | 2 | |

6) Teaching and Learning Methods

The program features a variety of teaching approaches for different intended learning objectives including:

- a. Lectures to gain knowledge and understanding skills.
- b. Practical sessions for the students to gain practical skills.
- c. Self-learning activities.

7) Student assessment

The program depends on different assessment ways:

a. Course assessment:

- Written exam to assess knowledge, information and intellectual skills.
- Practical exam to assess professional and practical skills.
- Oral exam to assess knowledge and information and intellectual skills.
- Student activities for assessing knowledge and general and transferable skills.

b. Master Thesis

- Annual reports adopted by the Faculty
- Finally, the assessment of thesis measure the individual student ability to work independently in the field specialization
- Final evaluation and approval by a judging committee of at least three professors including one or more of the supervisors and an external professor. This assesses the ability to write a review article, perform the needed practical steps and to present the results in tables and graphs. In addition, the skills of analysis of results and discussion with previous findings obtained by other authors are also assessed

Assessment of program intended learning outcomes

| Tool or method | ILOs |
|----------------|--------------------------|
| Written | a1,2,3,4,5,7; b1,2,3,5,7 |
| Oral | a1,2,5,6; b2,3,4,6 |
| Practical | b1,7; c1- ^o |
| Assignments | a1,2; b4; d1-8 |
| Thesis | A1-7; b1-7; c1-5; d1-8 |

8) 6-Score classification:

| | |
|-----------|--------------------------------|
| Excellent | At least 90% and more |
| Very good | At least 80% and less than 90% |
| Good | At least 70% and less than 80% |
| Pass | At least 60% and less than 70% |
| Fail | Less than 60% |

9) Program admission requirements

- The Applicant must normally satisfy the Faculty of Veterinary Medicine University of Sadat City general entrance and requirement. The normal minimum entrance qualification for registration at the Faculty on a master's program:
 - Bachelor degree in Veterinary Medical Sciences of one of the Egyptian Universities or hold a degree in Veterinary Medical Sciences equivalent through the Supreme Council of Universities with general grade at least "Good" and at least grade "Very Good" in specialization.
 - Diploma of general grade at least "Good" and at least grade "Very Good" in specialization. The total number of study hours must be not less than 3 weekly in that specialization.

10) Regulations for progression of program

- a) Registration period for the MVSc in Veterinary Medical Sciences is at least 2 years after the approval date by the Faculty council, one year for studying the courses and another for performing research and preparing the thesis. The registration period should not exceed 4 years. An extension for a maximum of 2 years could be approved by the Faculty council depending on the supervisor report approved by the department council and the postgraduate and research committee in the Faculty. The total period must not be more than 6 years.
- b) The general conditions for having a master degree in Veterinary Medical Sciences include:

- 1) The student should conduct the 5-6 courses proposed by both department council and approved by postgraduate and research committee and Faculty council. The student will be entitled to apply for the exam only after meeting attendance rate for each course. These courses must include:
 - Fundamental (core) course offered by the department responsible for the program (lectures: 3 hours/week; practical: 4 hours/week).
 - Research methodology (lectures: 1 hour/week; practical: 3 hours/week).
 - 3-4 elective courses (10-12 total hours/week) offered by other departments and are selected according to research nature.
- 2) The student should pass written, practical and oral exams successfully in all courses. Examination is held twice a year (December and April).
 - Failure or depriving from entering one or more course did not require reexamination of successful passed courses.
 - Each student has 4 chances to enter the exams, and the Faculty council should deprive the student from entering the exam if his attendance rate in the course is less than 75%.
 - Time of written exam is 3 hours if the total study hours of the course are 3 hours or more per week. In case of a course with total study hours less than 2 per week, the time of written exam is 2 hours
 - The final marks for each course having 3 study hours (lecture and practical) per week is 100 and 50 marks for any course with less than 3 study hours. The marks are divided into 50% for written exam, and 50% for both practical and oral exams.
- 3) The student must prepare a master thesis accepted by the judging committee in an open discussion. The master certificate must indicate the thesis topic and the field of specialization.

c) **General rules**

- 1) Applications for registration should be sent during March and September each year.
- 2) The applicant should submit a request for enrolment to the Faculty dean who forwards it to the concerned department council to determine the research subject and the study program and then take a calendar after complete documentation on the Faculty council for approval.
- 3) The thesis title should be identified at least 2 months before being submitted, and the judging committee has the right to amend the title without prejudice to the subject of research.
- 4) The Faculty council has the right to suspend the student enrolment for a certain period if he has an acceptable excuse preventing him from continuing his study or research, and his period will not be counted.

5) Registration will be cancelled in one of the following cases:

- If the supervisor report during the registration period is unsatisfactory
- If student did not submit his thesis before the end of registration period.
- If the judging and discussion committee rejected the thesis twice.

6) The applicant should submit 10 copies of the thesis after its validity is approved by the judging and discussion committee to be distributed to the committee members and Faculty library and the judging and discussion committee may decide the exchange of the thesis with other universities or printing at the expense of the university.

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| | Program coordinators | Head of department |
| Name | Prof. Dr. Hamada D.H. Mahboub | Prof. Dr. Hamada D.H. Mahboub |
| Signature | | |

Matching program ILOs with ARS - Matrix

| Program ILOs | ARS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---------|---|---|---|---|---|---|----------|---|---|---|---|---|---|----------|---|---|---|----------|---|---|---|---|---|---|---|--|--|
| | K&U (a) | | | | | | | I.S. (b) | | | | | | | P.P. (c) | | | | G.T. (d) | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| K&U | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | | | | | | | | | | | | | | | | | | | |
| I.S. | | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | | | | | | | | | | | | |
| P.P. | | | | | | | | | | | | | | | 1 | 2 | 3 | 4 | | | | | | | | | | |
| G.T. | | | | | | | | | | | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |

Program Specification Matrix

Master in Veterinary Medical Sciences (Animal Behavior and Management)

Name of student: **ايناس عبد المنعم كامل**

Registration date: **Nov. 2010**

| Courses | | Total Contact hours/ course | No. of hours / week | | | K.U (a) | | | | | | | I.S (b) | | | | | | | P.P (c) | | | | | | | G.T (d) | | | | | | | | | | | | | |
|---------------|--|--------------------------------|---------------------|-----------|-----------|---------|------|-------|---|---|---|---|---------|---|---|---|---|---|---|---------|---|---|---|---|---|---|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Lect. | Lab. | Total | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | |
| 641 | Fundamental (core) course | 308 | 3 | 4 | 7 | x | x | x | x | x | | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | | |
| - | Research methodology | 176 | 1 | 3 | 4 | | | x | | x | x | | | | | x | x | x | x | | x | x | x | x | x | | x | x | x | | | | | x | x | x | x | | | |
| 769 | Farm animal hygiene (advanced) | 176 | 2 | 2 | 4 | x | | x | | x | | | x | x | x | | | | x | x | x | x | x | | x | x | x | x | x | x | x | x | x | x | x | x | x | | | |
| 790 | Advanced animal breeding and improvement (advanced) | 88 | 2 | - | 2 | x | x | x | | x | | x | | x | | | | | x | x | x | x | x | | x | x | x | | | | | x | x | x | x | x | x | x | | |
| ٧٩٣ | Advanced sheep and goat production (advanced) | 176 | 2 | 2 | 4 | x | | x | | x | | | | x | | | | | x | x | x | x | x | | x | x | x | x | x | | | | | x | x | x | x | x | | |
| 796 | Advanced biostatistics | 88 | 2 | - | | | x | | | | x | | x | | x | | | | | | x | x | | | | | | | | | | | | | | | | | | |
| Total | | 1012 | 12 | 11 | 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thesis | | | | | | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |

Program Specification Matrix

Master in Veterinary Medical Sciences (Animal Behavior and Management)

Name of student: محمد عبد الله سلام

Registration date: Nov. 2010

| Courses | | Total Contact hours/ course | No. of hours / week | | | K.U (a) | | | | | | | I.S (b) | | | | | | | P.P (c) | | | | | G.T (d) | | | | | | | | | | | | |
|---------------|---|-----------------------------|---------------------|-----------|-----------|---------|------|-------|---|---|---|---|---------|---|---|---|---|---|---|---------|---|---|---|---|---------|---|---|---|---|---|---|---|---|---|---|--|--|
| | | | | | | Lect. | Lab. | Total | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| 641 | Fundamental (core) course | 308 | 3 | 4 | 7 | x | x | x | x | x | | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | | x | x | x | x | | | | | | |
| - | Research methodology | 176 | 1 | 3 | 4 | | | x | | x | x | | | | | x | x | x | x | | x | x | x | x | x | | x | x | x | | x | x | | | | | |
| 657 | Clinical nutrition | 176 | 2 | 2 | 4 | x | | x | | x | | | x | x | x | | | | x | x | x | x | x | | x | x | | x | x | x | | x | | | | | |
| 750 | Artificial insemination in birds and rabbit | 132 | 1 | 2 | 3 | x | | | | x | | | x | | x | x | | | | x | x | x | x | x | | x | x | x | | x | x | x | | | | | |
| 795 | Rabbit production (advanced) | 176 | 2 | 2 | 4 | x | | x | | x | | | | x | | | | | x | x | x | x | x | | x | x | x | x | x | | x | x | | | | | |
| Total | | 968 | 9 | 13 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thesis | | | | | | | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | | | |

Program Specification Matrix

Master in Veterinary Medical Sciences (Animal Behavior and Management)

Name of student: **ولاء سعد حسانين**

Registration date: ---. 2012

| Courses | | Total Contact hours/course | No. of hours / week | | | K.U (a) | | | | | | | I.S (b) | | | | | | | P.P (c) | | | | | G.T (d) | | | | | | | | | | |
|---------------|--|----------------------------|---------------------|-----------|-----------|---------|------|-------|---|---|---|---|---------|---|---|---|---|---|---|---------|---|---|---|---|---------|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Lect. | Lab. | Total | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 641 | Fundamental (core) course | 308 | 3 | 4 | 7 | x | x | x | x | x | | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| - | Research methodology | 176 | 1 | 3 | 4 | | | x | | x | x | | | | | x | x | x | x | | x | x | x | x | x | | x | x | x | | x | x | | | |
| 639 | Microbial biochemistry and biotechnology | ١٧٦ | 2 | 2 | 4 | x | | x | | | | x | x | x | | | | | x | x | x | x | x | | x | x | | x | x | x | x | x | x | | |
| 654 | Laboratory animal nutrition | 132 | 1 | 2 | 3 | x | | x | | x | | | x | x | | | | | x | x | x | x | x | | x | x | x | | x | x | | x | | | |
| 784 | Genetic of microorganisms | 132 | 1 | 2 | 3 | x | | x | | x | | | x | | x | | | x | x | x | x | x | x | | x | x | | x | x | | x | x | | | |
| 790 | Advanced animal breeding and improvement | 88 | 2 | - | 2 | x | x | x | | x | | x | | x | | | | | x | x | x | x | x | | x | x | x | | x | x | x | x | x | | |
| Total | | 1012 | 10 | 13 | 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thesis | | | | | | | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |