



Program Title: Master in Veterinary Medical Sciences

(<u>Medicine</u>)

A. ADMINISTRATIVE INFORMATION

University:	Sadat City
Faculty:	Veterinary Medicine
Program title:	Master in Veterinary Medical Sciences (Medicine)
Final award:	MVSc Degree (Medicine)
Registration period	2-4 years. An extension for a maximum of 2 years could be approved.
Department responsible:	Medicine and Infectious Diseases
Program Coordinators	Dr. Mahmoud Allam
External evaluator:	Prof. Dr. Mohamed Samir Hasan, Beni suif University

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 diagnostic tools in the field of animal medicine.
- Supplies the graduates with the most recent knowledge in science and technological applications in animal medicine.
- 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 health.
- Allows graduates to develop practical research project.
- Enables graduates to achieve competency in modern laboratory 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 to:

- Apply the gained specific knowledge in professional practice.
- Identify the professional problems and suggest solutions of the focus area.
- Apply and use analytical methods in the area of specialization.
- Apply efficiently the basics and methodologies of scientific research with the use of its different tools.
- Communicate effectively and lead work team through professional scale.
- Make decision under different professional situations
- Use of the available resources efficiently
- Be aware with the ongoing problems and modern concepts in the area of specialization.
- Be aware with his role in society development and community preservation.
- Reflect the commitment to act with integrity, credibility, and the rules of profession
- Realize the importance of self and life-long learning and progress.
- Master an appropriate domain in specialized professional skills and use modern technology to serve professional practice.

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.** Recognize theories and principles in the field of animal medicine and related fields.
- **a.2.** Identify mutual effect between professional practice and its impact on environment.
- **a.3.** Outline scientific progress in the field of animal medicine.
- **a.4.** Realize the principles and basics of quality assurance in the area of animal medicine.
- **a.5.** State the basics and ethics of scientific research.
- **a.6.** Realize the legal and ethical basics in the field of animal medicine.

b) Intellectual skills

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

- **b.1.** Analyze and judge the information in the field of animal medicine and analog to solve problems.
- **b.2.** Find clues for problems in animal medicine even in scarcity of resources via contact with professional experts.
- **b.3.** Relate between different knowledge to solve professional problems.
- **b.4.** Participate in preparing research plan in in animal medicine and/ or write scientific article on a research problem.
- **b.5.** Assess risks of professional practices in animal medicine and their possible consequences.
- **b.6.** Plan for improvement of professional performance.
- **b.7.** Make professional decisions in a variety of professional contexts with the desire to meet new challenges.

c) <u>Professional and practical skills</u>

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

- **c.1.** Master basic and recent professional skills in the field of in animal medicine
- c.2. Evaluate existing materials and methods in the area of specialization.
- c.3. Perform an experiment in in animal medicine and analyze data statistically.
- c.4. Write, conclude and evaluate a professional and conclusive report.

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 himself and identify his personal educational needs.
- d.4. Demonstrate interpersonal skills and team working ability
- d.5. Enhance an ability to learn independently for a career of lifelong learning.
- d.6. Facilitate 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) <u>Premaster courses – at least one academic year</u>

	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.

Electiv	ve Courses for master students				
			eek	D	
Coue			Practical	Department	
601	Applied anatomy	2	2		
602	Arterial & nerve supply, and surface anatomy		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	Anatomy & Embryology	
607	Comparative cardiovascular system, lymphatic system and heart	2	2	Lindryology	
608	Comparative nervous system and endocrine glands	2	2		
609	General and special embryology	2	2	2	
610	Avian anatomy	1	2		
611	Cytology and cytochemistry	2	2		
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	Cytology and	
615	Histological and histochemical structure of digestive system	2	2	histology	
616	Histological and histochemical structure of urogenital system	2	2		
617	Histological and histochemical structure of nervous system and endocrine glands	2	2		

hoof, claw619Avian hist620Circulator621Physiolog mammals622Avian physiolog623Fish physiolog624Nerve and625Physiolog626Physiolog627Physiolog628Physiolog629Physiolog630Radioisoto631Biochemin632Metabolis633Biochemin634Biochemin635Chemistry636Clinical b637Avian bio638Fish bioch639Microbial640Radiation641Behaviour642Behaviour643Pet anima644Laborator650Feed stuff651Farm anim652Birds and653Nutrition654Laborator655Feed stuff656Feed stuff657Clinical n659General p660Pathology661Pathology662Fish pathology663Fish pathology664Pathology665Fish pathology665Fish pathology	PICAL AND INSIDEDUCAL SUBCIDE OF DIEPUDED			
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644Laborator645Wild anim646Birds and649Advanced650Feed stuff651Farm anim652Birds and653Nutrition654Laborator655Feed stuff656Feeds and657Clinical n659General p660Pathology661Pathology662Environm663Pathology664Pathology665Fish pathology	our and management of equines	2	3	
645Wild anin646Birds and649Advanced650Feed stuff651Farm anin652Birds and653Nutrition654Laborator655Feed stuff656Feeds and657Clinical n659General p660Pathology661Pathology662Environm663Pathology664Pathology665Fish pathology	nals behaviour and management	1	2	Husbandry and Animal Wealth
646Birds and649Advanced650Feed stuff651Farm anim652Birds and653Nutrition654Laborator655Feed stuff656Feeds and657Clinical n659General p660Pathology661Pathology663Pathology664Pathology665Fish pathology	ory animals behaviour and management	1	2	Development
649Advanced650Feed stuff651Farm anim652Birds and653Nutrition654Laborator655Feed stuff656Feeds and657Clinical n659General p660Pathology661Pathology662Environm663Pathology664Pathology665Fish pathology	imals and birds behaviour and management	2	2	
650Feed stuff651Farm anim651Farm anim652Birds and653Nutrition654Laborator655Feed stuff656Feeds and657Clinical n659General p660Pathology661Pathology662Environm663Pathology664Pathology665Fish pathology	nd rabbit behaviour and management	2	2	
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652Birds and653Nutrition654Laborator655Feed stuff656Feeds and657Clinical n659General p660Pathology661Pathology662Environm663Pathology664Pathology665Fish pathology	affs (components and additives)	2	2	
653Nutrition654Laborator655Feed stuff656Feeds and657Clinical n659General p660Pathology661Pathology662Environm663Pathology664Pathology665Fish pathology	nimals and fish nutrition	2	2	
654Laborator655Feed stuff656Feeds and657Clinical n659General p660Pathology661Pathology662Environm663Pathology664Pathology665Fish pathology	nd rabbit nutrition	2	2	Nutrition and
654Laborator655Feed stuff656Feeds and657Clinical n659General p660Pathology661Pathology662Environm663Pathology664Pathology665Fish pathology	n of wild animals	1	2	Clinical
655Feed stuff656Feeds and657Clinical n659General p660Pathology661Pathology662Environm663Pathology664Pathology665Fish pathology	ory animal Nutrition	1	2	Nutrition
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659General p660Pathology661Pathology662Environm663Pathology664Pathology665Fish pathology	· · · ·	2	2	_
660Pathology661Pathology662Environm663Pathology664Pathology665Fish pathology	pathology and oncology (advanced)	2	2	
661Pathology662Environm663Pathology664Pathology665Fish pathology	gy of microbial and parasitic animal diseases	2	2	-
662Environm663Pathology664Pathology665Fish pathology	gy of nutritional deficiencies	1	2	-
663Pathology664Pathology665Fish patho	imental pathology	1	2	-
664Pathology665Fish patho	gy of reproduction	1	2	-
665 Fish patho		2	2	- Pathology
		1	2	-
666 Experime	nental Pathology	1	2	-
	ogical pathology	2	2	-
	l pathology	$\frac{2}{2}$	2	-
		2	2	
670 Evaluation	pathology (advanced) ion of organ functions, body fluids balance and	2	2	 Clinical Pathelegy
urine 671 Diagnosis	sis of hematological disorders and bone marrow	1	2	Pathology

	investigation			
672	General bacteriology	1	2	
673	Specific bacteriology	2	3	_
674	Advanced immunology	1	2	_
675	Advanced mycology	2	3	Bacteriology,
676	Microbiology of fish	2	2	_ Mycology and
677	Microbiology of poultry and rabbits	1	2	Immunology
678	Microbiology of poulty and rabbits Microbiology of invertebrates	1	2	_
679		2	2	_
680	Diagnostic microbiology			
	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	
688	Parasites of fish	2	2	- Parasitology
689	Snails and their veterinary significance	1	2	
690	Parasitic immunology	1	2	
691	Clinical parasitology	2	2	
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	2	2	
696	local hormones Veterinary pharmacology and CNS	2	2	_
<u>697</u>	Veterinary pharmacology and entering Veterinary pharmacology and anaesthesia	$\frac{2}{2}$	2	_
<u>698</u>	Veterinary pharmacology and anaestnesia	2	2	 Dhonmooology
		2		Pharmacology
699 700	Veterinary pharmacology and metabolism Medicinal hormones	2	$\begin{array}{c} 2\\ 2\end{array}$	_
				_
701	Chemotherapy	2	2	_
702	Drug toxicology	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	2	2	_
707	Food analysis	2	2	- Food hygiene
708	Specific courses in milk contamination and diseases transmitted by milk	1	2	
709	Food poisoning	1	2	-
710	Food poisoning Hygiene and control of dairy plants	2	2	-
			2	
711	Hygiene of slaughter animal	$\frac{1}{2}$		_
712	Hygiene and management of abattoirs	2	2	_
713	Meat Hygiene	2	2	_
714	Bird and rabbit meat hygiene	1	2	_
715	Food technology	1	2	- Food hygiene
716	Food microbiology	2	2	
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	

				_
				_
				-
730	Cattle infectious diseases	1	2	
731	Sheep and goat infectious diseases	2	2	_
732	Camel infectious diseases	$\frac{2}{2}$	2	_
733	Equine infectious diseases	$\frac{2}{2}$	2	_
734	Pet animal infectious diseases	$\frac{2}{2}$	2	Infectious
735	Laboratory animal infectious diseases	<u> </u>	2	— diseases
736	Udder and calve infectious diseases	2		_
730			2	_
	Buffalo infectious diseases	1	1	_
738	Wild animal infectious diseases	1	1	
739	Forensic medicine and veterinary regulations	2	2	- Forensic
740	General toxicology	2	2	Medicine,
741	Environmental toxicology	2	2	Toxicology, ,and
742	Forensic toxicology	2	2	Veterinary regulations
743	Clinical toxicology	2	2	regulations
744	Gynaecology (specific courses for ruminants, equines and pet animals)	2	2	
745	Andrology (specific courses for ruminants and pet animals)	2	2	
746	Obstetrics (specific courses for farm and pet animals)	2	2	
746	Reproduction and immunity	1	2	
747	Artificial insemination in ruminants	2	2	Theriogenology
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 in farm animals	1	2	
752	obstetrics and artificial insemination in wild animals	1	2	
753	Advanced general surgery	2	2	
754	Special surgery (organs)	2	2	_
755	Ophthalmic surgery	2	2	_
756	Surgery of the digestive system	2	2	Surgery,
757	Surgery of limbs and diseases of hoof & claw	2	2	- Anesthesiology
758	Experimental surgery	$\frac{2}{2}$	2	and Radiology
759	Anesthesiology	<u> </u>	1	_
760	Diagnostic imaging	2	2	_
761	Bacterial diseases of poultry	$\frac{2}{2}$	2	
		$\frac{2}{2}$	2	_
762	Viral diseases of poultry			_
763	Mycotic diseases of poultry	2	2	
763	Parasitic diseases of poultry	1	2	Bird and Rabbi
764	Nutritional deficiency diseases	1	2	— Medicine
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	
769	Farm animal hygiene (advanced)	2	2	_
770	Poultry hygiene (advanced)	2	2	Hygiana
771	Environmental hygiene and pollution	2	2	 Hygiene and Zoonoses
772	Combating epidemic diseases	2	2	
773	Control of pests and disease vectors	2	2	

774	Insecticides and general 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		
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	-	Hygiene and Zoonoses	
782	Prevention and control of zoonotic diseases	2	-	Zoonoses	
783	Role of aquatic animals and fish in transmission of zoonotic disease	2	-		
784	Genetic of microorganisms	1	2		
785	Genetic engineering (advanced)	1	2	1	
786	Cytogenetics	1	-	Husbandry and	
787	Population genetics (advanced)	2	-	Animal Wealth Development	
788	Physiological genetics	2	-	Development	
789	Biochemical and radiation Genetics	1	2		
790	Advanced animal breeding and improvement	2	-		
791	Advanced poultry breeding and improvement	2	-		
792	Advanced cattle and buffalo production	2	2	Husbandry and	
793	Advanced sheep and goat production	2	2	Animal Wealth Development	
794	Advanced poultry production	2	2	Development	
795	Advanced rabbit production	2	2	-	
799	Economics of dairy production farms	2	-		
800	Economics of poultry production farms	2	-	_	
801	Economics of fish production farms	2	-	Husbandry and	
802	Feasibility studies of animal production projects	2	-	Animal Wealth Development	
803	Management of animal production farms	2	-	Development	
804	Economics of beef production farms	2	-	-	
811	Microbial aquatic diseases	3	3		
812	Parasitic aquatic diseases	3	3	-	
813	Non-infectious aquatic diseases	3	3	Fish Medicine	
814	Epidemiology of aquatic diseases	2	1	and Management	
815	Aquaculture	3	1		
816	Special studies on aquatic sciences	2	2	1	

6) Teaching and Learning Methods

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

- 1. Lectures.
- 2. Practical.
- 3. Self-learning activities.

7) Student assessment

The program depends on different assessment ways:

a. METHODS:

1- Written	For assessment of knowledge, back calling and Intellectual
examination	skills

2- Practical	For assessment of practical and professional skill.
examination	
3- Oral examination	For assessment of knowledge and Intellectual skills
4- Student activities	For assessment of knowledge and general and transferable skills

a. <u>Master Thesis</u>

- 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	a1,2,3,4,6; b1-7
Oral	a1,5,6; b2,6,7
Practical	b1,7; c1-4;
Assignments	a1,2,3; b3,4,5; d1-8
Thesis	A2-6, b1-7 c1-4, 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**) <u>The general conditions for having a master degree in Veterinary Medical Sciences</u> <u>include:</u>
 - 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 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 requires 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) <u>General rules</u>

- 1) Applications for registration should be sent during March and September each year.
- 2) The applicant should submit a request enrolment for the Faculty dean who forwards it to the concerned department council to determine the research subject and the study program and then take 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 the subject of research.
- 4) The Faculty council has the right to suspend the student enrolment for a certain period if he has acceptable excuse preventing him from continuing his study or research, and his period will not 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.

	Program coordinators	Head of department
Name	Dr. Mahmoud Allam	Prof. Dr. Ahmed zaghwa
Signature		

													AR	S															
Program ILOs		K	&I	J (a	a)				I .	S. (b)			P	. P .	(c)	G.T. (d)												
ILOs	١	۲	٣	£	٥	٦	١	۲	٣	£	٥	٦	۷	١	2	٣	١	۲	٣	£	٥	٦	7	8					
K&U	١	۲	٣	٤	٥	٦																							
I.S.							١	۲	٣	£	٥	6	7																
P.P.														1	2	3, £													
G.T.																	١	۲	٣	£	٥	٦	7	8					

Matching program ILOs with ARS - Matrix

Program Specification Matrix

Master in Veterinary Medical Sciences (Animal medicine)

Name of student:

على عبدالعظيم عبدالمنعم

Registration date: Oct. 2013

	Courses	Total Contact hours/ course	No.	K.U (a)							I.S (b)							P.P) (c)	G.T (d)									
Code	Name		Lect.	Lab.	Total	1	2	3	4	5	6	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	6	7	8
-	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
-	Research methodology	176	1	3	4			x	x	x					x		x				x					x		x	x	
731	Sheep and goat infectious diseases	176	2	2	4	x	x	x				X	x	x					x	X	x	x	x	x	x		x			x
671	Diagnosisofhematologicaldisordersandbonemarrowinvestigation	176	2	1	3	x		x		x		x	x			x			x	X	x	x		x	x		x		x	
775	Advanced immunity	176	2	2	4	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

Program Specification Matrix

Master in Veterinary Medical Sciences (Animal medicine)

Name of student:

بسمة حسن عبدالعزيز

Registration date: April. 2014

	Courses	Total Contact hours/ course	No.		K.U (a)							I.	S (b)			P.P (c)				G.T (d)									
Code	Name		Lect.	Lab.	Total	1	2	3	4	5	6	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	6	7	8
-	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
-	Research methodology	176	1	3	4			x	x	x					x		x				x					x		x	x	
734	Pet animal infectious diseases	176	2	2	4	x	x	x				x	x	x					x	x	x	x	x	x	x		x			x
746	Obstetrics (specific courses for farm and pet animals)	176	2	1	3	x	X	x				X	x	x					X	x	x	x		X	x		x			
-	biostatics	176	2	-	2	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

Program Specification Matrix

Master in Veterinary Medical Sciences (Animal medicine)

Name of student:

نهال محمود حامد الدخميسى

Registration date: April. 2014

	Courses	Total Contact hours/ course	No.	K.U (a)							I.S (b)							P.P	' (c)		G.T (d)								
Code	Name		Lect.	Lab.	Total	1	2	3	4	5	6	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	6	7	8
-	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
-	Research methodology	176	1	3	4			x	x	x					x		X				X					x		x	x	
734	Pet animal infectious diseases	176	2	2	4	x	X			x			x	x				x	X	x	x	x	x	x	x		x			x
764	Advanced general surgery	176	2	2	4	x	X	x			x	x		x			X		X	x	X	x		x	x		x			
-	Biostatics	176	2	-	2	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