Program Specification Matrix (2016-2017)

Program Courses with intended learning outcomes (ILOS)

مصفوفة مضاهاة مقررات البرنامج مع مخرجات التعلم للبرنامج الجديد ٢٠١٦-٢٠١٧

Program Specification Matrix (Program Courses with ILOS) - 2016-2017

مصفوفة مضاهاة مقررات البرنامج الجديد مع مخرجات التعلم ٢٠١٦ـ ٢٠١٧

Course title	Course code	Intended learning outcomes (ILOs)			
		Knowledge and understanding skills	Intellectual skills	Professional and practical	General and transferrable
Anatomy and Embryology (General)	ANE:1101	a1, a3	b1, b2	c1, c3	d1, d2, d3, d5, d6
Histology (General)	HIS: 1102	a1, a3	b1, b2	c1, c3	d1, d2, d3, d5, d6
Biostatistics	BST:1103	a1	b1	c1	d3, d5
Biology	BIO:1104	a1	b1	c1	d1, d2, d3, d5, d6
Biophysics	PHS:1105	a1	b1	c1	d1, d2, d5, d6
General Chemistry	CHM:1106	a1	b1	c1	d1, d2, d5, d6
Basics of Veterinary Medical Terminology	VMT:1107	a1	b1	c1	d3, d5
Anatomy and Embryology (Special)	ANE:1208	a1, a3	b1, b2	c1, c3	d1, d2, d3, d5, d6
Special Histology (Part I)	HIS:1209	a1, a3	b1, b2	c1, c3	d1, d2, d3, d5, d6
Basic Biochemistry	BIC:1210	a1, a4	b2	c1	d3, d5
Physiology (General)	PHY:1211	a1, a3, a4	b2	c1	d1, d2, d3, d4, d5, d6
Genetics And Genetic Engineering	GEN:1212	a1	b1	c1	d3, d5
Veterinary Economies and Projects Management	VEP:1213	a2	b3, b13	c1	d1, d2, d3, d5, d6
Comparative Anatomy (Part I)	ANE:2114	a1, a3	b2	c1, c3	d1, d2, d3, d5, d6
Special Histology (Part II)	HIS:2115	a1, a3	b2	c1, c3	d1, d2, d3, d5, d6
Biochemistry (Metabolism)	BIC:2116	a1, a4	b2	c1	d1, d2, d3, d5, d6
Systematic Physiology	PHY:2117	a1, a2, a3	b4	c1	d1, d2, d3, d5, d6

Course title	Course code	Intended learning outcomes (ILOs)			
		Knowledge and understanding skills	Intellectual skills	Professional and practical	General and transferrable
Animal and Poultry Behavior and Management (Part I)	ABM:2118	a2, a9	b3	c1, c2	d1, d2, d3, d4, d5, d6
Animal, Poultry and Fish Production (Part I)	APR:2119	a2, a9	b3, b12	c1	d1, d2, d3, d4, d5, d6
Comparative Anatomy (Part II)	ANE:2220	a1, a3	b1, b2	c1, c3	d1, d2, d3, d5, d6
Biochemistry and Body Fluids	BIC:2221	a1, a4	b2	c1	d1, d2, d3, d5, d6
Special Physiology	PHY:2222	a1, a3, a4	b2	c1	d1, d2, d3, d5, d6
Animal and Poultry Behavior and Management (Part II)	ABM:2223	a2, a9	b3	c1, c2	d1, d2, d3, d4, d5, d6
Animal, Poultry and Fish Production (Part II)	APR: 2224	a2, a9	b2, b3	c1	d1, d2, d3, d5, d6
Molecular Biology	MOL: 2225	a23	b16	c25	d1, d2, d3, d4, d5, d6
Ethics of Veterinary Practice and Research	EVR:2226	a19	b17	c2	d1, d2, d3, d4 d5, d6
Pathology(General)	PAT: 3127	a5, a6, a8	b4, b5, b13	c1, c3, c5, c6, c7	d1, d2, d3, d5, d6
Bacteriology, Mycology (General) and Immunology	BMI: 3128	a5, a6	b4, b13	c1, c3, c5, c6, c7	d1, d2, d3, d5, d6
Parasitology (Part I)	PAR: 3129	a5, a6	b4, b13	c1, c3, c5, c6, c7	d1, d2, d3, d5, d6
Pharmacology (Part I)	PHA: 3130	a7	b4, b13	c1, c6	d1, d2, d3, d5, d6
Basics of Nutrition	NUT:3131	a4, a10	b2, b5, b7, b13	c1, c6, c7, c8	d1, d2, d3, d5, d6
Virology (General)	VIR:3132	a5, a6	b4, b13	c1, c3, c5, c6, c7	d1, d2, d3, d5, d6
Applied uses of computer	COM:3133	a1	b1	c1	d1, d4, d6
Systematic Pathology	PAT: 3234	a5, a6, a8	b4, b5, b13	c1, c3, c5	d1, d2, d3, d5, d6
Bacteriology and Mycology (Special)	BMI:3235	a5, a6	b4, b13	c1, c3, c5, c6, c7	d1, d2, d3, d5, d6
Parasitology (Part II)	PAR: 3236	a5, a6	b4, b13	c1, c3, c5, c6, c7	d1, d2, d3, d5, d6
Pharmacology (Part II)	PHA: 3237	a7, a21	b4, b13	c1, c6	d1, d2, d3, d5, d6

Course title	Course code	Intended learning outcomes (ILOs)			
		Knowledge and understanding skills	Intellectual skills	Professional and practical	General and transferrable
Nutrition (Special)	NUT:3238	a4, a10	b2, b5, b7, b13	c1, c6, c7, c8	d1, d2, d3, d5, d6
Virology (Special)	VIR:3239	a5, a6	b4, b13	c1, c3, c5, c6, c7, c25	d1, d2, d3, d5, d6
Principles of Epidemiology	EPD:3240	a23, a24, a25	b13, b17	c1, c5, c26	d1, d2, d3, d5,
Gynaecology (Part I)	THR:3241	a12, a6	b11, b13	c1, c5, c6, c7, c8, c10, c11, c12, c13, c14	d1, d2, d3, d4, d5, d6
Special Pathology (part 1) and Postmortem Examination	PAT: 4142	a5, a8, a13	b4, b5, b6, b13	c1, c3, c4, c5, c6, c7, c14, c18, c19, c21	d1, d2, d3, d5, d6
Internal Medicine (Part I)	IMD:4143	a5, a11, a12, a13	b4, b5, b6, b13	c1, c3, c4, c5, c6, c10, c11, c12, c13	d1, d2, d3, d5, d6
Anesthesia and General Surgery (Part I)	SUR: 4144	a12, a15	b8, b13	c1, c6, c7, c12, c13, c14, c16	d1, d2, d3, d5, d6
Gynecology (part II)	THR:4145	a12, a16	b11, b13	c1, c5, c6, c7, c8, c10, c11, c12, c13, c14	d1, d2, d3, d5, d6
Toxicology and Forensic Medicine (Part I)	TFM:4146	a7, a12, a19	b10, b13	c1, c6, c15, c19, c21, c22	d1, d2, d3, d5, d6
Milk Safety and Technology	MST:4147	a13, a18	b9, b13	c1, c5, c7, c9, c12, c18, c20	d1, d2, d3, d5, d6
Fish Diseases and Management (part I)	FDM:4148	a2, a13, a14	b12, b13	c1, c3, c5, c6, c7	d1, d2, d3, d5, d6
Clinical Pathology	CPA:4149	a12, a13	b4, b5, b6, b13	c1	d1, d2, d3, d5, d6
Special Pathology (part I1) and postmortem Examination.	PAT: 4250	a5, a8, a13	b4, b5, b6, b13	c1, c3, c4, c5, c6, c7, c14, c18, c19, c21	d1, d2, d3, d5, d6
Internal Medicine (Part II)	IMD:4251	a5, a11, a12, a13	b4, b5, b6, b13	c1, c4, c5, c6, c7, c11, c12, c13, c14	d1, d2, d3, d5, d6
General Surgery (Part II)	SUR:4252	a12, a15	b8, b13	c1, c6, c7, c12, c13, c14, c16	d1, d2, d3, d5, d6
Andrology, Sire Selection and Abortion	THR:4253	a12, a16	b11, b13	c1, c5, c6, c7, c8, c10, c11, c12, c13, c14, c17	d1, d2, d3, d5, d6

Course title	Course code	Intended learning outcomes (ILOs)			
		Knowledge and understanding skills	Intellectual skills	Professional and practical	General and transferrable
Toxicology and Forensic Medicine	TFM:4254	a7, a12, a19	b10, b13	c1, c6, c15, c19, c21, c22	d1, d2, d3, d5, d6
Milk Products Safety and Technology	MST:4255	a13, a18	b9, b13	c1, c5, c7, c9, c12, c18, c20	d1, d2, d3, d4, d5, d6
Fish Diseases and Management (Part II)	FDM:4256	a2, a13, a14	b12, b13	c1, c3, c5, c6, c7	d1, d2, d3, d4, d5, d6
Infectious Diseases (Part I)	INF:4257	a5, a6, a8, a11, a13, a17, a19	b4, b5, b6, b12, b17	c1, c3, c4, c5, c6, c7, c11, c12, c13, c14, c15, c17, c19, c26	d1, d2, d3, d4, d5, d6
Animal By, products	MST:4258	a21	b15	c1, c24	d1, d2, d3, d4, d5, d6
Environmental Hygiene	AHY:5159	a2, a9, a11, a13, a17, a18, a19	b3, b4, b12, b13	c1, c4, c5, c6, c7, c8, c12, c14, c15, c17, c19, c20	d1, d2, d3, d4, d5, d6
Internal Medicine (Part III)	IMD:5160	a5, a11, a12, a13	b5, b6, b13	c1, c5, c6, c7, c11, c12, c13, c14	d1, d2, d3, d4, d5, d6
Special Surgery and Radiology	SUR:5161	a12, a15	b9, b13	c1, c7, c11, c12, c13, c14, c16	d1, d2, d3, d4, d5, d6
Obstetrics	THR:5162	a12, a15	b11	c1, c5, c6, c7, c8, c10, c11, c12, c13, c14	d1, d2, d3, d4, d5, d6
Safety and Technology of Meat, Poultry and Fish	MST:5163	a13, a18	b10, b13	c1, c5, c6, c7, c9, c12, c18, c19, c20, c21	d1, d2, d3, d4, d5, d6
Table Egg, Edible Fat and Oil Safety and Technology	MST:5164	a13, a18	b9, b13	c1, c5, c7, c9, c12, c18, c20	d1, d2, d3, d5, d6
Poultry Diseases (Part I)	POD:5165	a2, a5, a6, a8, a13	b5, b12, b13	c1, c3, c5, c6, c7, c11, c12, c13, c14, c19	d1, d2, d3, d4, d5, d6
Infectious Diseases (Part II)	INF:5166	a5, a6, a8, a11, a13, a17, a19	b4, b5, b6, b12, b17	c1, c3, c4, c5, c6, c7, c11, c12, c13, c14, c15, c19, c26	d1, d2, d3, d4, d5, d6
Application of Endoscopy and Ultrasonography (in Vet. Med.)	IMD: 5167	a20	b14	c23	d1, d2, d3, d4, d5, d6

Course title	Course code	Intended learning outcomes (ILOs)			
		Knowledge and understanding skills	Intellectual skills	Professional and practical	General and transferrable
Application of Endoscopy and Ultrasonography (in Vet. Med.)	THR:5168	a20	b14	c23	d1, d2, d3, d4, d5, d6
Zoonoses (Part I)	ZOO:5169	a17, a18	b4, b13	c1, c5, c6, c7, c11, c17	d1, d4, d6
Animal Hygiene and Preventive Medicine	AHY:5270	a2, a9, a11, a13, a17, a18, a19	b3, b4, b12, b13	c1, c4, c5, c6, c7, c8, c12, c14, c15, c17, c19, c20	d1, d2, d3, d4, d5, d6
Internal Medicine (Part IV)	IMD:5271	a5, a11, a12, a13	b5, b6, b13	c1, c4, c5, c6, c11, c12, c13, c14	d1, d2, d3, d4, d5, d6
Systematic Surgery	SUR:5272	a12, a15	b9, b13	c1, c5, c6, c7, c11, c12, c13, c14	d1, d2, d3, d4, d5, d6
Artificial Insemination, In Vitro Fertilization and Embryo Transfer	THR: 5273	a12, a15	b11	c1, c5, c6, c7, c8, c10, c11, c12, c13, c14	d1, d2, d3, d4, d5, d6
Safety and Technology of Meat, Poultry and Fish Products (part II)	MST:5274	a13, a18	b10, b13	c1, c5, c6, c7, c9, c12, c18, c19, c20, c21	d1, d2, d3, d4, d5, d6
Poultry Diseases (Part II)	POD:5275	a2, a5, a6, a8, a13	b5, b13, b14,	c1, c3, c5, c6, c7, c11, c12, c13, c14, c19	d1, d2, d3, d4, d5, d6
Infectious Diseases (Part III)	INF:5276	a5, a6, a8, a11, a13, a17, a19	b4, b5, b6, b12	c1, c3, c4, c5, c6, c7, c11, c12, c13, c14, c15, c17, c19	d1, d2, d3, d4, d5, d6
Zoonoses (Part II)	ZOO:5277	a17, a18	b4, b13	c1, c5, c6, c7, c11, c17	d1, d4, d6
Application of Endoscopy and Ultrasonography (in Surgery)	SUR 5278	a21	b15	c24	d1, d2, d3, d4, d5, d6

Program Specification Matrix (2016-2017)

NARS with Program intended learning outcomes (ILOS) and over all aims of the program

مصفوفة مطابقة المعايير الاكاديمية مع مخرجات التعلم واهداف البرنامج الجديد ٢٠١٦-٢٠١٧

مصفوفة مضاهاة المعايير الأكاديمية والأهداف العامة ونواتج التعلم للبرنامج الجديد ٢٠١٦-٢٠١٧

Matrix of NARS, Overall aims and Intended learning outcomes (ILOS) of the program 2016-2017

National Academic Reference Standards (NARS)	Overall aims and intended learning outcomes (ILOS) of the Programme				
	Programme overall aims	Intended learning outcomes (ILOS) of the programme			
		Knowledge and understanding skills	Intellectual skills	Professional and practical skills	General and transferable skills
1. Attributes of the Graduates of Veterinary Medicine **1.1.** Demonstrate the proper application of the professional knowledge and skills with positive attitudes and behavior towards better health and productivity of livestock, poultry and fish resources. **1.2.** Be committed to continuous enhancement, coping with the most recent effective and efficient performance standards of the veterinary profession, and gaining community confidence. **1.3.** Apply research concepts and technologies in different fields of veterinary sciences. **1.4.** Express proper	**1.1- Provide** graduates with professional and good veterinary practices to be competent and participate efficiently in the labor market. **1.2- Apply** the appropriate knowledge and professional skills with positive attitudes and behaviors to gain the best health and productivity of the animal, fish and poultry wealth. **1.3- Prepare** research planes for solving field problems like epidemics and reproductive disorders. **1.4- Apply** the concepts and technology of research in various areas of veterinary medical science. **1.5**- **Communicate** effectively and skillfully that emphasizes the influential role of the veterinarian				

evaluation capacity and uncover curiosity. **1.5.** Consider life-long learning skills. **1.6.** Apply international ethical and legal frame of medical practice-code **1.7.** Show satisfactory interpersonal and communication skills confirming the sensitive role of the veterinarian in society and disseminating the awareness of maintaining animal and human health.	in the community and awareness to preserve the health of humans and animals **1.6- Improve** reproduction in native breed animals, poultry and fishes. **1.7- Improve** the quality of public health through controlling the zoonotic diseases. **1.8- Control** various epidemics and endemic diseases through correct rapid diagnosis and perform planes for controlling. **1.9- Recognize** the steps for preparation of vaccines against viruses, bacteria and internal parasites **1.10- Ensure** self-sufficiency in animal, poultry and fishes proteins and by-products. **1.11- Apply** the principles of international ethics and the legal framework for medical practices. **1.12- Make** a commitment to continuous improvement, keep up with the latest performance standards of the profession of Veterinary Medicine influential and efficiency and the ability to win the trust of the community. **1.13**- **Improve** the ability for continuous learning skills.				

Knowledge and understanding skills: **2.1.** Basic sciences of biology, chemistry, biophysics, genetics, biostatics, computer science and veterinary terminology. **2.2.** Basics of normal behavior, management, breeding, veterinary economics and health maintenance of domestic animals, laboratory animals, poultry, and fish. **2.3.** Normal macro, and micro-structure of body tissues, organs and systems of animals, birds and fish. **2.4.** Physiological and biochemical bases of different organ functions, metabolic processes and homeostasis. **2.5.** Principle of welfare, production and health maintenance of food producing and pet animals, sporting animals, wildlife , poultry and fish **2.6.** Basics of nutrition and feeding practices of		**a1-** Determine the basic knowledge in the biological sciences, chemistry, biophysics, veterinary genetics and genetic engineering, biostatistics, computer science as well as the veterinary terminology. **a2- Declare** the basics of normal animal behavior, care and breeding, the veterinary economy and how to keep animals, poultry and fish healthy. **a3- Describe** the developmental stages, gross and microscopic structure and function of tissues, organs and systems in different animal species. **a4- Explain** the basics of physiological and biochemical functions of different organs and metabolic processes based on the molecular bases of structural and functional features and metabolism of bio-molecules. **a5- Describe** the characteristic features of different causes of animal diseases and determination of their evolution with their gross and			

healthy and diseased animals. **2.7.** Various causes of animal diseases, their pathogenesis, macro- and microscopic pathological lesions, and laboratory diagnosis. **2.8.** Veterinary medications, uses, marketing, the impact of drug residues on human health and quality control of pharmace-utical practices. **2.9.** General and specific epidemiological pattern of animal population diseases and the most effective immunization protocols. **2.10.** Toxicology and forensic medicine, animal medicine, theriogenology and veterinary surgery. **2.11.** The most appropriate diagnosis and differential diagnosis of animals, poultry and fish diseases **2.12.** The accurate measurements of veterinary quarantine. **2.13.** Public health,		microscopic changes beside the laboratory diagnosis. **a6- Identify** the principles of microbiology, classification, isolation and identification as well as the pathogeneses and immune responses of viruses, bacteria and fungi. **a7- Identify** the veterinary drugs; sources, structures, mode of action, therapeutic uses on different body systems and etiologic agents, pharmacokinetic and pharmacodynamic and the impact effect of drug residues on human and animal health and the quality control in the pharmaceutical practices. **a8- Define** the principles of pathology, pathogeneses, macro- and microscopic appearance of diseased tissues and pathological processes in different body systems. **a9- Define** the rules of animal welfare and production and the health preservation of food producing animals, pets, wildlife, poultry and fish. **a10- Explain** the principles of nutrition and its practices for			

including food hygiene of animal origin and zoonotic diseases that are transmitted from animals to humans. **2.14.** Basics of law and ethical codes relevant to animals and food hygiene. **2.15.** Basics of social sciences, communication, and human rights.		healthy and diseased animals. **a11- Classify** the public and private epidemiological pattern of animal diseases and the more influential immune measures. **a12- Explain** the basics, theories and knowledge in forensic medicine and toxicology, animal medicine, clinical pathology, obstetrics and veterinary surgery. **a13- Recognize** the appropriate clinical approach for diagnosis, treatment and prevention of internal medical disorders and infectious diseases of animals, poultry and fish. **a14- Clarify** the concepts related to fish and poultry management, diseases, and hygiene. **a15- Recognize** the different procedures of animal sedation and anesthesia, approach of surgical intervention and safe use of diagnostic imaging. **a16- Explain** the gynecological and reproductive disorders of farm and pet animals and the importance and application of artificial insemination.			

		a17- Determine the concepts of surveillance of communicable and zoonotic diseases so as to apply the appropriate preventive and the exact procedures of the veterinary quarantine. **a18- Clarify** the principles of public health, which includes the safety of food from animal origin and common diseases transmitted from animals to humans. **a19- Declare** the legal principles, moral rules, veterinary stipulations, regulations and ethics appropriate competent for animal health and food. **a20- Identify** the topographic anatomy area being examined using advanced diagnostic tools such as ultrasonography and endoscopy. **a21- Explain** the benefits and pharmaceutical uses of animals' by-products. **a22- Identify** the nucleic acids structures and functions. **a23- Explain** the basic terms and methods used in infectious disease epidemiology, disease		

		prevention and control trials, outbreak investigation, and evaluation of screening tests; **a24. Define** epidemiologic approaches of disease occurrence in communities: determinants, distribution and dynamics including prevention and control. **a25- Describe** the programs for the prevention and control of the communicable and most prevailing diseases in Egypt.			
Intellectual skills **4.1.** Foster critical thinking and scientific curiosity. **4.2.** Assess and criticize, at the fundamental level, how data are derived. **4.3.** Inculcate a rigorous approach to problem identification and solving. **4.4.** Proficiently secure diagnostic reasoning, develop problem lists and differential diagnosis in order to deductively and critically reach the most appropriate solution (s) and management of the			**b1- Coordinate** the knowledge of the biological sciences, chemistry, biophysics, veterinary genetics and genetic engineering, biostatistics, computer science as well as the veterinary terminology in veterinary practices. **b2- Correlate** the anatomical and histological structures to the function of the body organs in different animal species in relation to the interactions between biomolecules, their metabolism and functions. **b3- Assess** the management program and detect mis-management factors and		

addressed clinical problems. **4.5.** Remain committed to life – long learning and updating /upgrading their biochemical sense and clinical skills.			behavior as well as nutritional problems affecting animal health and production. **b4- Determine** the interrelationship between pathogens, host and environment and appraise the drug action and uses in relation to body organs, pathogenesis and drug dynamics. **b5- Interpret** the abnormal changes in different animal and poultry tissues, mechanisms and pathological diagnosis and differential diagnosis. **b6- Analyze** the clinical and laboratory data of diseased animals to figure out the most appropriate medical approach. **b7- Formulate** a balanced ration for livestock, poultry and fish in health and disease. **b8- Interpret** on the obtained results of imaging techniques for the purpose of diagnosis, possible surgical interference and therapy. **b9- Judge** the safety and quality of food and processed products of animal origin. **b10- Predict** the probable causes of murders, poisoning and accidents of animals.		

			b11- Assess the gynecological and reproductive disorders of female and male animals. **b12- Evaluate** risk assessment of hygienic conditions related to animals, poultry and fish breeding. **b13- Diagnose** the problems in a logical and skilled way, with ability to differentiate between these problems to gain access to the most appropriate solutions and administration to the clinical problems. **b14- Interpret** the data obtained by ultrasonography and endoscopy. **b15- Detect** the grades of animal hide and fat as by-products. **b16- Differentiate** the gene sequences and mutation. **b17- Identify** the infectious cycle for selected diseases and apply appropriate health promotion, disease prevention and control measures to identified priority communicable diseases and under specific situations		
Professional and practical skills **3.1 Employ** all the gained				**c1- Apply** all acquired knowledge and concepts in practice skillfully.	

knowledge and understanding in clinical practice in a skillful pattern. **3.2- Safely**, correctly and humanely restrain animals for examination. **3.3- Obtain** the history of the case whether it is of an individual animal or a group of animals. **3.4- Perform** clinical examination of diseased cases and collect relevant samples. **3.5- Appropriately** select and interpret findings of the common clinical and laboratory diagnostic procedures to reach and adopt the most convenient therapeutic and manage mental approach. **3.6-Write** a report about hygiene and safety of food of animal origin for human consumption. **3.7- Assess** and advise about animal management, nutrition under conditions of health and disease, and reproductive efficiency.				**c2- Handle** and restrain animals during the examination in correct, safe and humanitarian way. **c3- Differentiate** between the normal and abnormal gross and microscopic structures of animal, fish and poultry diseases. **c4- Obtain** the accurate and relevant case history, whether individual or collective animal groups and its environment. **c5- Perform** a thorough clinical examination of the diseased cases and collect, preserve and transport the appropriate samples for standard laboratory techniques. **c6- Choose** the clinical and laboratory diagnostic methods and explain its findings and apply the most appropriate treatment based on the logical approach. **c7- Interpret** the laboratory findings with integration of these results with the clinical	

3.8- Skillfully and appropriately gain and use new information remain current with the emerging biomedical knowledge and therapeutic options. **3.9- Conduct** evidence-based problem-solving of field-presented problems tasks. **3.10- Provide** emergency care to all species of animals. **3.11- Utilize** appropriate safety procedures to protect clients and co-workers. **3.12- Correctly** deal with procedures related to food hygiene public health issues, notifiable diseases and disposal of animal wastes. **3.13- Minimize** the risk of contamination, cross infection and predisposing factors of diseases.				information. **c8- Assess** the status of animal care and nutrition under the normal and pathological conditions and reproductive efficiency and be able to advice on appropriate husbandry and feeding. **c9- Write** a report on the health and safety of food of animal origin for human consumption **c10- Assess** the reproductive efficiency of an animal or a group of animals and advise on reproductive management including obstetrical problems. **c11- Use** the recent information efficiently and keep pace with the skill of knowledge of animal medicine and current therapeutic options. **c12- Provide** solutions with evidences for the problems existing in the veterinary medicine field. **c13- Administer** appropriate treatment for different diseases in	

				individual or groups of animals., as well as provide emergency care for all types of animals. **c14- Use** proper safety measurements to protect co-workers and assistants. **c15- Reduce** the risk of contamination, cross infection and predisposing factors leading to the accumulation of pathogens in veterinary premises and in the field. **c16- use** the gained skills of imaging techniques, surgical procedures and anesthetic protocols to perform safe surgical intervention. **c17- Demonstrate** the veterinary public health issues and the procedures to follow with notifiable and zoonotic diseases. **c18- Perform** ante-mortem inspection and be able to recognize conditions affecting the quality and safety of animal products. Carry out meat inspection and be able to judge suitability of meat, milk,	

				fish, poultry and eggs for human consumption. **c19- Judge** the appropriate time for euthanasia and/or carcass disposal. **c20- Apply** safe and economic ways of handling animal byproducts. **c21- Perform** a basic gross postmortem examination and safely sample tissues and record findings. **c22- Identify** the probable causes of murder, poisoning and accidents of animals. **c23- Use** the ultrasound and endoscope instruments properly. **c24- Design** animals' by-products plants. **c25- Extract** the nucleic acids. c26- Apply epidemiologic skills in a public health setting,	
General and transferable skills **5.1.** Work under pressure and /or contradictory conditions. **5.2.** Function in a multidisciplinary team.					**d1- Work** under pressure and/or contradictory condition. **d2- Work** in a multidisciplinary team.

5.3. Communicate appropriately verbally and non-verbally. **5.4.** Organize and control tasks and resources. **5.5.** Search for new information and technology as well as adopt life–long self-learning ethics. **5.6.** Utilize computer and internet skills.					**d3- Research** for modern information technology as well as the application of the principles of self-learning. **d4- Regulate** and control tasks and resources. **d5- Communicate** effectively and non-verbally. **d6- Utilize** computers and internet skills.

Program Specification Matrix

NARS with over all aims of the program
(2016-2017)

مصفوفة مضاهاة المعايير الاكاديمية (مواصفات الخريج) مع الاهداف العامة للبرنامج الجديد ٢٠١٦-٢٠١٧

Matrix of NARS (Attributes of graduates) with academic program (overall aims) 2016-2017

مصفوفة مضاهاة اهداف البرنامج الاكاديمى مع المعايير الاكاديمية (مواصفات الخريج)

البرنامج الجديد ٢٠١٦-٢٠١٧

Overall aims / NARS (vet.)	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	1.10	1.11	1.12	1.13
1.1	x	x											
1.2			x										
1.3				x									
1.4					x	x	x	x	x	x		x	x
1.5					x	x	x	x	x	x		x	x
1.6					x	x	x	x	x	x		x	x
1.7											x		

Matrix of NARS (Attributes of graduates) with academic program (overall aims)

مصفوفة مضاهاة اهداف البرنامج الاكاديمى ٢٠١٦-٢٠١٧ مع المعايير الاكاديمية (مواصفات الخريج)

1. Attributes of the Graduates of Veterinary Medicine	Program overall aims
1.1. Demonstrate the proper application of the professional knowledge and skills with positive attitudes and behavior towards better health and productivity of livestock, poultry and fish resources.	**1.1- Provide** graduates with professional and good veterinary practices to be competent and participate efficiently in the labor market. **1.2- Apply** the appropriate knowledge and professional skills with positive attitudes and behaviors to gain the best health and productivity of the animal, fish and poultry wealth.
1.2. Be committed to continuous enhancement, coping with the most recent effective and efficient performance standards of the veterinary profession, and gaining community confidence.	**1.3- Prepare** research planes for solving field problems like epidemics and reproductive disorders.
1.3. Apply research concepts and technologies in different fields of veterinary sciences.	**1.4- Apply** the concepts and technology of research in various areas of veterinary medical science.
1.4. Express proper evaluation capacity and uncover curiosity. **1.5. Consider** life-long learning skills. **1.6. Apply** international ethical and legal frame of medical practice-code	**1.5- Communicate** effectively and skillfully that emphasizes the influential role of the veterinarian in the community and awareness to preserve the health of humans and animals **1.6- Improve** reproduction in native breed animals, poultry and fishes. **1.7- Improve** the quality of public health through controlling the zoonotic diseases. **1.8- Control** various epidemics and endemic diseases through correct rapid diagnosis and perform planes for controlling. **1.9- Recognize** the steps for preparation of vaccines against viruses, bacteria and internal parasites **1.10- Ensure** self-sufficiency in animal, poultry and fishes proteins and by-products. **1.12- Make** a commitment to continuous improvement, keep up with the latest performance standards of the profession of Veterinary Medicine influential and efficiency and the ability to win the trust of the community. **1.13- Improve** the ability for continuous learning skills.

1.7. Show satisfactory interpersonal and communication skills confirming the sensitive role of the veterinarian in society and disseminating the awareness of maintaining animal and human health.	**1.11- Apply** the principles of international ethics and the legal framework for medical practices.