



Zagazig University
Faculty of Veterinary Medicine

Programme Specification

Bachelor of Veterinary Medicine

(Poultry medicine)

(BVMSc-PM)

CREDIT HOURS

Faculty council approval Date: 10 -10- 2022

Ministry decree: 29-8-2022

(2022-2023)



Programme Specification (2022-2023)

Zagazig University Faculty of Veterinary Medicine

Programme specification

Basic information

1- **Programme Title:** Bachelor of Veterinary Medicine (Poultry medicine)

2- **Programme type:** Single

3- **Departments: A- Faculty Departments**

1. Anatomy and Embryology
2. Histology
3. Biochemistry&Molecular Biology
4. Physiology
5. Pathology
6. Nutrition and Clinical Nutrition
7. Behavior and Management of Animal, Poultry and Aquatic life
8. Parasitology
9. Virology
10. Microbiology
11. Pharmacology
12. Clinical Pathology
13. Forensic Medicine, Toxicology&Vet. Regulations
14. Veterinary Public Health
15. Hygiene, Safety and Technology of Food
16. Aquatic life Medicine
17. Avian and Rabbit Medicine
18. Animal Medicine
19. Surgery ,Anaesthesia and Radiology
20. Gynecology and Obstetrics
21. Zoonoses
22. Animal Wealth Development



B- Dean's cabinet nominates the responsible staff members for the teaching and learning of (Ethics and Professional Moral, Risk and Crisis Management and Sociological Problems).

C- Other departments and other organizations share in training.

4-External Institutions: ELP Centre of Zagazig University "English Language and Terminology" (ELT 101)

5-Date of program approval: The program was approved by the Ministry decree No. 3229 on 29-8-2022.

6-The start date of the study in the program: 2022-2023

7-Date of programme specification approval: (Faculty council approval 10/10/2022). The current bylaw is issued by the ministerial decree no. 3229 on 29-8-2022. The Bachelor of Veterinary Medicine (poultry medicine) programme was reviewed and approved (Faculty council 10 -10- 2022).

8-The last adoption with NARS

According to the approved reviewing study (28-11-2020) for adoption and application of NARS Feb. 2009 and justification matching of program specification to fulfill the NARS, The last adoption with NARS in faculty council 10-10-2022.

9- Program Coordinator: Dr. Shimaa Ahmed Mohamed Ezzeldein

Assistant professor of Surgery, Anaesthesiology and Radiology, Faculty of Veterinary Medicine, Zagazig University

10-External evaluator: Committee nominated by Faculty Council.

Prof. Dr. Mahmoud Mousa Ismail

Professor of Avian and Rabbit medicine, Faculty of Veterinary Medicine, Kafer Elsheikh University.

11- Internal evaluator: Dr. Ashraf Hamed

Assistant Professor of Avian and Rabbit Medicine, Faculty of Veterinary Medicine, Zagazig University.



B- Professional Information

1 - Programme aims

The main objective of the Faculty of Veterinary Medicine–Zagazig University is to supply the local, national, and regional societies with highly qualified veterinarians able to:

1. Recognize the scientific basis of veterinary and poultry medicine and apply that understanding to veterinary practice ethically with legal frame.
2. Comprehend poultry and animal diseases at a molecular, cellular, systemic, individual, and population level.
3. Combine their knowledge into the effective diagnosis, medical management and treatment of sick poultry and animals and other health-related issues.
4. Utilize the scientific veterinary research concepts (uncovering curiosity and criticism.....etc) as well as cooperation and working in groups.
5. Find out and use medical information. They should engage in lifelong learning to remain current in their understanding of the scientific basis of poultry medicine and other veterinary fields.
6. Promote the health of poultry and animals in addition the public through client and public education, service, and action.
7. Distinguish the important and diverse roles that poultry and animals play in the health, economics, food-supply, recreation, and well-being of mankind.
8. Be aware that the BVMSc (Poultry Medicine) degree is an entry-level degree and that, to function effectively as a distinguished veterinarian Poultry Medicine or as a specialist, they will need to invest considerable additional educational time and efforts.

2 - Intended learning Outcomes (ILOs)

a - Knowledge and Understanding

The Zagazig Veterinary Medicine graduates (poultry medicine) should be able to:

- a.1- Distinguish some terminology, different expressions and suffix used in the veterinary and poultry field.
 - a.2- Recognize the mechanisms of preserving the body's homeostasis, the macro and microscopical picture of normal tissue and different types of injuries in animal and poultry.
 - a.3- Describe the naked eye and histopathological picture with functional correlation of different body tissues and organs in different animals and poultry
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- a.4- Identify the physiological function of the major body organs and systems with reference to nervous, circulatory and respiratory system and distinguish the different components of blood and their function.
- a.5- Recognize the embryological development of the genital system and possible malformation, the basic of ultra-sonography application to be used in pregnancy diagnosis in rabbit and different animal species.
- a.6- Acquire the fundamentals of computer science, biostatistics and biochemistry, as well as their applications in animal and poultry breeding and prevention of infection.
- a.7- Identify the inheritance basis of different types of traits in animal and poultry flocks and the genetic base of population genetics and environment.
- a..8- Acquire supplementary sciences to enhance computer abilities for managing poultry and animal farms and protecting poultry and other animals.
- a.9- Recognize principles in poultry behavior and have good knowledge about proper methods of achieve welfare in massive poultry production.
- a.10- Acquire knowledge on the various causes of autoimmune diseases and the principles of adequate nutrition, normal feeding patterns
- a.11- Distinguish the genetic makeup of common animal and poultry breeds within neighboring localities.
- a.12- Identify the normal behavior and abnormal ones.
- a.13- Recognize the different methods to control and prevent diseases which causing infertility in different animal species and poultry.
- a.14- Recognize the embryological development of the genital system and possible choosing the excellent specimens for artificial insemination the economic impact and factors on the delivery of reproductive health care helping in increase the economic factor of breeding
- a.15- Define the different methods to control and prevent internal and infectious diseases and the economic impact of surgical judgment.
- a.16- Identify the suitable methods of differential diagnosis of poultry and animal diseases and microbial detection.
- a.17- Recognize pathogenesis, clinical signs and various microbiologic causes of disorders in poultry, detection of bacteria, helminths, protozoa and arthropods.
- a.18- Describe the effect of different diseases on body organs which make changing the normal function of organs and systems and make differential diagnosis between different poultry diseases
- a 19 - Identify the most suitable methods of treatment of diseases with choosing the medicaments and doing the most effective protocol of treatment.
- a.20- Distinguish the methods of the Production of healthy milk, egg, meat and chicken without drug residues or infection.
- a.21- Recognize the different methods of milk and meat adulteration and how to make detection of it.
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- a.22- Identify the fundamental concepts of poultry bacteriology,mycology, immunology, virology Parasitology and occupational zoonotic diseases
- a.23- Identify the basics of taking decision of debridement of dairy and poultry meat, requirementsforpoultry and animal transport, slaughter houses and storage of meat and its products.
- a.24- Recognizeavian, rabbit and fish diseases toxicological condotionsand their prophylactic and control measures.
- a.25- Define the different methods to control and prevent infectious diseases causing waste in animal and poultry flocks.
- a.26- Recognize poultry and animal health maintenance application in order to prevent transmission of infection
- a.27. Distinguish the rules of Veterinary quarantine and the epidemiology.
- a.28. Recognize the permissible limits of pollutants in water, feed and air and soil
- a.29. Recognize principles of sterilization of surgical cloths, instruments as well as disinfections of site of operationand disinfection of poultry farms.
- a.30- Distinguish different stages of death and the medico legal importance of each one, the types of asphyxial death and their mechanism of action. Identify forensic chemistry of blood stain, physical injuries and wounds of poultry
- a.31. Define the different methods of anesthesia in different poultry and animal species, preoperative techniques as well as general surgical procedures.
- a.32. be aware to follow the legal and ethical methods for meat and food safety and hygiene
- a.33. Select the appropriate method of euthanasia of poultry and animals helping in environmentalsafety.
- a.34, Differentiate between sound and unsound poultry and animals to make management and control of the flock
- a.35- Be aware of Sociological problems and different methods for communication.

b - Intellectual skills

The Zagazig Veterinary Medicine graduates (poultry medicine) must be able to:

- b.1- Identify critical clinical queries arising from case interaction in poultry and animal.
 - b.2- Differentiate between normal and abnormal behavior of different animals, fish and poultry
 - b.3- Interpret the macro and microscopical picture of different body organs andcausative agents in different diseases, wounds ,asphyxial deaths and physical injuries affections.
 - b.4- Have a commitment to continuous learning and categorize information from a number of sources in order to gain a coherent understanding of theory and practice.
 - b.5- Determine the strategies for appropriate selection of most suitable method of approach in, biochemistry, microbiological, forensic medicine and clinical pathology
 - b.6- Employ problem solving skills and a commitment to continuous learning.
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- b.7- Differentiate problems and finding solution in field inbreeding problems and find solution to overcome veterinary congenital defects and use all poultry byproducts.
- b.8- Locate the appropriate method of medicinal treatment in different medicinal diseases
- b.9- Utilize the basic knowledge of poultry science to improve poultry production with suitable vaccination programs, the most effective methods of meat and egg safety and hygiene.
- b.10- evaluate the normal anatomical and physiological state of all animals' species during feeding, standing and recumbent position
- b.11. Interpret the results of sensitivity to different antibiotics and antimycotics depending on disc diffusion test of pathogenic bacteria and fungi.
- b.12- Employ the pharmacological characters of medicine to help in medicinal induction.
- b. 13-Classify the zoonotic and infectious diseases for choosing the suitable treatment protocol.
- b.14- Employ the surgical and gynecological interference to help in surgical treatment of different animals and poultry cases, gynecological examination and treating obstetrical complications.
- b15- analyze the statistical information using the recent computer programs and give a conclusion.

c - Professional and practical skills

The Zagazig Veterinary Medicine graduates(poultry medicine) must be able to:

- c.1- Apply the safety handling methods of different animals and poultry, making recommendation on behavioral poultry disorders and apply the ethical codes and behave in a professional manner.
- c.2- Isolate different helminths in tissues and demonstration of their reactions in such tissues by naked eye.
- c.3- Carry out all the laboratories examination for diagnosis of diseases.
- c.4- Diagnose different metabolic diseases and make differential diagnosis of viral, bacterial, mycotic and parasitic diseases of poultry and animals and Isolate bacteria and fungi from different sources.
- c.5- Differentiate between different nutritional needs and detect the suitable ration of poultry and other animals.
- c.6- Apply the most effective method of anesthesia in different animal and poultry cases
- c.7- Make different methods of naked eye examination of the dead animals and take the suitable specimens for diagnosis of different lesions.
- c-8- Apply different surgical operations and obstetrics procedures for different animals and poultry.
- c.9- Take case history of the diseased poultry and different animal species.
- c.10- Implement procedures of disinfection and discarding the dangerous carcass.



- c.11- Treat the diseased cases effectively and choose the suitable medicament.
- c.12- Choose the suitable analgesics, apply saline solutions and overcome the emergency period.
- c.13- apply the appropriate laboratory safety procedures,disinfection and sterilization.
- c.14- Apply marketing studies for poultry production
- c.15- Apply different methods of meat and milk inspection.
- c.16- Apply preventive measures in veterinary premises and fields.
- c.17. Using the most recent method of diagnosis of diseases as ultrasonography, X-ray, CT ,MRI and chromatography.
- c.18- Apply the doses of anesthesia for making humanely euthanasia in different animals and poultry.
- c.19- Detect the sex of poultry and different breeds. Discriminate poultry production levels. Evaluate the effect of stress on poultry production and reproduction
- .c.20- Examine histopathological lesions under microscope to detect the affection and make different sensitivity tests for bacteria and microscopical diagnosis helminths, protozoa and arthropods their different stages to identify them.
- c.21- Carryout suitable procedure of vaccination in different poultry and animal species.
- c.22- Practice skilled competent and evaluative scientific experiment and test.
- c.23- Isolate differentmicrobiological, bacteriological and mycotic agents that causes diseases.
- c.24- Isolate different etiological agents of viral diseases indifferent animals and poultry species.
- c.25- Identify the metabolic causes of diseases and nutritional deficiency.
- c.26- Identify different types of toxic agents and application of forensic medicine rules.

d - General and transferable skills

The Zagazig Veterinary Medicine graduates(poultry medicine must be able to:

- d.1- Co-operate successfully with colleagues.
 - d.2- Participate in team work to achieve a specific task for solving histological and behavior related problems.
 - d.3- Perform research on common causes of endemic diseases in the surrounding areas
 - d.4- Demonstrate knowledge of the organization and management of animal and poultry farms,vaccination, and using byproducts.
 - d.5- be familiar with different critical cases and working in complicated cases with the utilizing of medical pharmacological characters.
 - d.6- Acquire computer skills in obtaining information from web sites and application of software in the bioscience.
 - d.7- Evaluate own performance in diagnosis of different zoonotic diseases and toxicological cases.
 - d.8- Cooperatein team work for solving a specific nutritional and feeding problems
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- d.9- cooperate the team work for doing surgical operation task and gynecological interference.
- d.10-cooperate the team work for correct diagnosis of physiological disorders, internal disease bacterial, viral and parasitic causes of diseases
- d.11-Perform research on common causes of carcasscondemnation, slaughter houses and differentiationbetweennormal and abnormal chickens and different milk, blood, serum analysis.
- d.12- Debatedatafrom different animals and poultry problems through naked eye andmicroscopic examination
- .d.13- Evaluate own performance in laboratory work
- d.14- Utilize information technology for preparation of follow-up seminarinmeatand milk technology, forensic medicine and toxicology.
- d.15- preparation of oral presentation in different causes of poultry diseases,safety, meathygiene and marketing

3-Academic standards

3.1-The national academic reference standards (NARS) of veterinary medicine issued by national authority of quality assurance and accreditation for education (NAQAAE) were adopted by the faculty council 12/4/2010. The last adoption date, Faculty council 10-10-2022

3.2- Comparison of provision to external references:

3.2.1- Comparing the NARS with Bachelor of Veterinary Medicine (Poultry medicine) (BVMSc-PM) programme ILOS

Knowledge and understanding	
NARS	BVMSc (Poultry medicine) Programme ILOS
1	a 1,6,7,8
2	a 9, 11, 12, 14, 25
3	a 3
4	a 2,4
5	a 13, 26,34
6	a 10
7	a 15,16,17,18
8	a 19,20
9	a 25
10	a 5,30, 31
11	a 22,24
12	a 27,29



*Bachelor of Veterinary Medicine(Poultry Medicine)Programme Specification
Faculty of Veterinary Medicine – Zagazig University*

13	a 21,23,32,33
14	a 26,32
15	a 28,30, 35
Intellectual Skills	
NARS	BVMSc-PM Programme ILOS
1	b 1,3,10
2	b 2,14
3	b 4, 5, 7,13
4	b 8,9,11,12
5	b 1,6,15
Professional and practical skills	
NARS	BVMSc-PM Programme ILOS
1	c 3,6,7,8,14,17,21
2	c 1,18
3	c 9,23,24,25,26
4	c 3,20
5	c 12, c 22
6	c 15
7	c 5,19
8	c 11,12
9	c 2,4
10	c 11, 12
11	c 13
12	c 10, 15, 16
13	c 13
General and transferable Skills	
NARS	BVMSc- PM Programme ILOS
1	d 5
2	d 1,8,9,10
3	d 2, 6
4	d 4
5	d 3,11,12
6	d 7,13,14,15



3.2.2- Comparing the adopted NARS with Bachelor of Veterinary Medicine (Poultry MedicineBVMSc-PM)program structure.

Total Credit hours:

Obligatory courses: 170 credit hours

Elective courses: 20 credit hours

Training: One academic year (Prime Minister Decree No.407,2021,Article No.183)

- **Training:**

One year of field training in veterinary medicine work and employing

Number of hours: Representative with a total contact hours :1080

Percentage of training: 21.9 %

- **Computer and ICT :**

Items	Lectures	Practical	Training	Total core	Elective	Total core + elective
Credit	113	57	-	170	20	190
Contact hours	1695	1710	1080	4485	435	4920

ICDL isn't required to obtain a bachelor's degree

-Biostatistics and computer serve ICDL, therefore, a section on teaching computer science in the course title was added in line with NARS 2009, and the new course specification of the biostatistics and computer courses beside the other courses with percentage of 1.8 %.



Program Structure and components:

Obligatory courses

- University requirements
- Humanities:

Courses	Credit hours	No. of hours		Prerequisite courses	Code	المقرر
		Pra.	Lec.			
English and Medical Terminology	2	-	2		ELT-101	اللغة الانجليزية والمصطلحات الطبية
Sociological Problems	2	-	2		SOP-102	القضايا المجتمعية
Risk and Crisis Management	2	-	2		RCM-301	إدارة المخاطر والأزمات
Ethics and Professional Moral	2	-	2		EPM-201	اخلاقيات واداب المهنة
Feasibility Studies and Marketing	3	2	2		FSM-302	دراسات الجدوى والتسويق
	11	2	10			الاجمالي

- Clinical and preclinical sciences

Course	total	No. of hours		Prerequisite Courses	Code	المقرر
		pra	Lec			
General Histology and Cytology	3	2	2		CHI-103	أنسجة وخلايا عام
General Anatomy and Embryology	3	2	2		ANE-104	تشريح وأجنة عام



*Bachelor of Veterinary Medicine(Poultry Medicine)ProgrammeSpecification
Faculty of Veterinary Medicine – Zagazig University*

General Vet Genetics and genetic Engineering	2	2	1		AWD-105	وراثة بيطرية وهندسة وراثية عام
Basic Biochemistry	3	2	2		BmB-106	اساسيات الكيمياء الحيوية
Biostatics and Computer	3	2	2		AWD-107	الاحصاء الحيوي والكمبيوتر
General Physiology	3	2	2		PHY-202	فسيولوجيا عام
General Nutrition and Clinical Nutrition	3	2	2		NCN-203	تغذية وتغذية الكلينيكية عام
General Pathology	3	2	2		PAT-303	عامباتولوجيا
General Bacteriology, Mycology and Immunology	3	2	2		MIC-304	بكتريولوجيا وفطريات ومناعة عام
General Virology	3	2	2		VIR-305	فيرولوجيا عام
General Parasitology	3	2	2		PAR-306	طفيليات عام
General Pharmacology	3	2	2		PHA-307	فارماكولوجيا عام
General Clinical Pathology	3	2	2		CPA-401	باتولوجيا إكلينيكية عام
Forensic Medicine and Vet Regulations	3	2	2		TFM-340	الطب الشرعي والاجراءات البيطرية
Toxicology	3	2	2		TFM-402	السموم
General Gynecology and Obstetrics	3	2	2		OGA-406	توليد وتناسليات عام
Epidemiology	3	2	2		VPH-404	وبائيات
Fish Diseases and Management	3	2	2		ALM-410	مراض ورعاية الأسماك



*Bachelor of Veterinary Medicine(Poultry Medicine)ProgrammeSpecification
Faculty of Veterinary Medicine – Zagazig University*

General Infectious Diseases	3	2	2		ANM-413	أمراض معدية - عام
General Internal Medicine	3	2	2		ANM-414	أمراض باطنة عام
Environmental health and Pollution	3	2	2	VPH-411	VPH-501	الصحة البيئية والتلوث
General Surgery	3	2	2		SAR-502	جراحة عامة
Special Histology and Cytology	3	2	2	CHI-103	CHI-108	انسجة وخلايا خاص
Special Anatomy and Embryology	3	2	2	ANE-104	ANE-109	تشريح واجنة خاص
Special Vet Genetics and Genetic Engineering	2	2	1	AWD-105	AWD-110	وراثة بيطرية وهندسة وراثية خاص
Biochemistry and Molecular biology	3	2	2	BMB-106	BMB-111	الكيمياء الحيوية والبيولوجيا الجزيئية
General Behavior and Management of Animal and Poultry	3	2	2		204BHM-	سلوكيات ورعاية الحيوان والدواجن عام
General Breeding and Animal production Economics and Farm Management	3	2	2		AWD-205	تربية وإنتاج حيواني عام
Economic s and farmmanagement	3	2	2		AWD-206	اقتصاد وإدارة المزارع
Special Physiology	3	2	2	PHY-202	PHY-207	فسيولوجيا خاص
Special Behavior and Management of Animal and Poultry	3	2	2	BHM-204	BHM-208	سلوكيات ورعاية الحيوان



Bachelor of Veterinary Medicine(Poultry Medicine)Programme Specification
Faculty of Veterinary Medicine – Zagazig University

						والدواجن خاص
Special Breeding and Animal Production	3	2	2		AWD- 209	تربية وإنتاج حيواني خاص
Special Nutrition and Clinical Nutrition	3	2	2	NCN-203	NCN-210	تغذية وتغذية إكلينيكية خاص
Special pathology	3	2	2	PAT-303	PAT-308	باثولوجيا خاص
Special Bacteriology, Mycology and Immunology	3	2	2	MIC-304	MIC-309	بكتيولوجيا وفطريات ومناعة خاص
Special Virology	3	2	2	VIR-305	VIR-310	فيروسولوجيا خاص
Special Parasitology	3	2	2	PAR-306	PAR-311	طفيليات خاص
Special Pharmacology	3	2	2	PHA-307	PHA-312	فارماكولوج يا خاص
General Milk Hygiene, Safety and Technology	2	2	1		405FHS-	صحة وسلامة وتكنولوجيا الالبان عام
Nutritional deficiency Diseases of Poultry	3	2	2		BRM-407	أمراض النقص الغذائي للدواجن
Special Clinical Pathology	3	2	2	CPA-401	CPA-408	الهاتولوجيا الإكلينيكية خاص
Special Milk Hygiene, Safety and Technology	2	2	1	FHS-405	FHS-409	صحة وسلامة وتكنولوجيا الالبان خاص
Hygiene and Biosecurity of Poultry Farms	3	2	2		411VPH-	الصحة والأمن



*Bachelor of Veterinary Medicine(Poultry Medicine)Programme Specification
Faculty of Veterinary Medicine – Zagazig University*

						الحيوى المزارع الدواجن
Special Gynecology and AI	3	2	2		OGA-412	تناسليات خاص و تلقيح اصطناعى
Poultry Bacterial and Mycotic Diseases	3	2	2		BRM-503	أمراض الدواجن البكتيرية والفطرية
Viral Diseases of Poultry	3	2	2		BRM-504	امراض الدواجن الفيروسية
Parasitic Diseases of Poultry	2	2	1		BRM-505	أمراض الدواجن الطفيلية
General Hygiene, Safety and Meat Technology	3	2	2		506FHS-	صحة وسلامة وتكنولوجيا اللحوم عام
Poultry Vaccines	2	2	1		BRM-507	لقاحات الدواجن
Zoonotic Diseases	3	2	2		ZON-508	الأمراض المشتركة
Special Hygiene, Safety and Meat Technology	3	2	2	FHS-506	FHS-509	صحة وسلامة وتكنولوجيا اللحوم خاص
Laboratory Diagnosis of Poultry Diseases	3	2	2		BRM-510	التشخيص المعملى الأمراض الدواجن
Poultry By-products	3	2	2	2	FHS-511	مخلفات الدواجن
Special Internal Medicine	2	2	1	ANM-414	ANM-512	أمراض باطنة خاص
Special Infectious Diseases	2	2	1	ANM-413	ANM-513	امراض معدية خاص



*Bachelor of Veterinary Medicine(Poultry Medicine)Programme Specification
Faculty of Veterinary Medicine – Zagazig University*

Special Surgery	2	2	1	SAR-502	SAR-514	جراحة خاص
	159	112	103			الإجمالي

• **Elective courses:**

Courses	Credit hours	No. of hours		Code	المقرر
		Prac.	Lec.		
Embalmmnt and Plastination	2	2	1	ANE-001	التحنيط والبستكة
Histological Structure of Wild Birds	2	2	1	CHI-002	التركيب النسيجي للطيور البرية
Dietary Metabolism of poultry	2	2	1	BMB-003	الأيض الغذائي للدواجن
Poultry Wealth in Arab States	2	-	2	AWD-004	الثروة الداجنة في الوطن العربي
Physiology of Wild Birds	2	2	1	PHY-005	فسيولوجيا الطيور البرية
Genetic Improvement of Poultry	2	2	1	AWD-006	التحسين الوراثي للدواجن
Clinical Nutrition of Poultry	2	2	1	NCN-007	التغذية الاكلينيكية للدواجن
Preparations of Poultry Farms	2	2	1	VPH-008	تجهيزات المزارع
Pathology of Wild Birds	2	2	1	PAT-009	بليثولوجيا الطيور البرية
Molecular Biology of Bacteria	2	2	1	MIC-010	البيولوجيا الجزيئية للبكتريا
Viral Diagnostic Biotechnology	2	2	1	VIR-011	بيوتكنولوجيا تشخيص الفيروسات
Drug Marketing and Promotion	2	2	1	PHA-012	تسويق وإعلام دوائي
Special Studies in Toxicology and T Forensic Medicine	2	2	1	TFM-013	دراسات خاصة في السموم والطب الشرعي
Hatchery	2	2	1	VPH-014	صحة المفرخات



Bachelor of Veterinary Medicine(Poultry Medicine)Programme Specification
Faculty of Veterinary Medicine – Zagazig University

Hygiene					
Cytodiagnosis of Poultry diseases	2	2	1	CPA-015	التشخيص الخلوي لأمراض الدواجن
Ornamental Birds	2	2	1	BHM-016	طيور الزينة
Occupational Zoonoses	2	2	1	ZON-017	الأمراض المهنية المشتركة
Diseases of Wild and Migratory Birds	2	2	1	BRM-018	امراض الطيور البرية والمهاجرة
Poultry Plants Sanitation	2	2	1	FHS-019	الشنون الصحية المصانع لحوم الدواجن
Surgery of Poultry	2	2	1	SAR-020	جراحة الدواجن






*Bachelor of Veterinary Medicine(Poultry Medicine)Programme Specification
Faculty of Veterinary Medicine – Zagazig University*

NARS			BVM (Poultry Medicine) academic standards		
Subject	Range	Sciences	Percent	Sciences	Remarks
Basic sciences	22-28	Biology, biophysics, chemistry, biostatics, animal husbandry, <i>embryology</i> , histology, physiology, anatomy	21.2% (As per core credit)	General Anatomy and embryology, General Histology, , Special Anatomy and embryology, Special Histology, ,Basics of Biochemistry, General Physiology Molecular biology General and special animal breeding Special physiology General and special animal Behavior and Management	Near to adopted NARS
Pre-clinical sciences	17-23	Genetics, microbiology, nutrition, mycology, immunology, pharmacology, parasitology, virology, pathology, milk and meat hygiene	29.4% (As per core credit)	General Pathology General Bacteriology, mycology and Immunology General Virology General Parasitology General Pharmacology Special Pathology Special Bacteriology, mycology and immunology Special Virology Special Parasitology Special pharmacology	Higher than NARS



*Bachelor of Veterinary Medicine(Poultry Medicine)Programme Specification
Faculty of Veterinary Medicine – Zagazig University*

Clinical sciences	40-44	Epidemiology and pathogenesis, internal medicine, infectious diseases, forensic medicine and toxicology, poultry and fish diseases, hygiene, surgery, zoonoses, theriogenology, and clinical investigation, and treatment of animals	40% (As per core credit)	General clinical pathology Fish diseases and management General and special medicine General and special surgery General and special infectious diseases General and special obstetric and Gynecology Forensic medicine and Toxicology Nutritional deficiency diseases of Poultry Epidemiology Bacterial and mycotic diseases of poultry Viral Diseases of Poultry Parasitic diseases of poultry Hygiene and biosafety Poultry Vaccines Zoonotic Diseases Laboratory Diagnosis of Poultry Diseases Poultry By Product	Similar to adopted NARS
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   <i>Bachelor of Veterinary Medicine (Poultry Medicine) Programme Specification</i> <i>Faculty of Veterinary Medicine – Zagazig University</i>					
Training*	2-6	Field trips and clinical investigations	21.9% (Estimated per total contact hours)	One year of field training in veterinary medicine work and employing representative	
Computing and ICT	1-3	Computer sciences and application IT	1.8 (As per core credit)	Biostatistics and computer	Similar to adopted NARS
Humanities	2-4	English, economics, human rights and social studies	7.6% (As per core credit)	English language social topics Ethics Economics Risk and Disaster management Feasibility Study and Marketing	Higher than NARS
Discretionary subjects	4-8	Allowed to each faculty to be used based on its mission	10.5% (As per core credit)	Twenty credit Hours , 10 elective courses	Higher than NARS

4 - Curriculum structure and content.

4.a) Programme duration: 5 years.

4.b) Programme structure:

A- No. of credit hours

Academic year	Lectures	Practical	Total
1 st year	330	165	495
2 nd year	330	165	495
3 rd year	390	195	585
4 th year	440	220	660
5 th year	410	205	615
Total	1900	950	2850



4.Total credit hours:

Lectures: 113 Practical:57 Summer Training:- Total:170

Elective : 20

4.bii- No of credit hours compulsory (170), plus 20 elective hours Total :190

4.biii- No of credit hours of basic sciences: No:36 %:21.2

4.biv- No of credit hours of social science and humanities: No: 13 %: 7.6

4.bv- No of credit hours of specialized: No:118 %:69.4

4.bvi- discretionary subjects: No: 20 %:11.8

4.bvii- No of field training (training): No:1080 %:21.9

4.bviii- Single programme

Table (1) curriculum structure and course percentage

First level

Semester	Code No	Course title	Total credit hours	Percentage
First	ELT101	English language and medical terminology	30	11.7
	SOP 102	Sociological problems	30	11.7
	CHI 103	General histology	45	17.6
	ANE104	General Anatomy and embryology	45	17.6
	AWD105	General vet Genetics and genetic engineering	30	11.7
	BMB106	Basic Biochemistry	45	17.6
		Elective Course	30	11.7
Total			255	

Not included in GPA. •

Semester	Code No	Course title	Total credit hours	Percentage
Second	AWD107	Biostatistics and computer	45	18.8
	CHI108	Special Histology and cytology	45	18.8
	ANE109	special Anatomy and embryology	45	18.8
	AWD110	Special vet Genetics and genetic engineering	30	12.5
	BMB111	Biochemistry and molecular biology	45	18.8
		Elective course*	30	12.5
Total			240	

*First level elective courses from 1 to 4 listed in elective schedule.



Second Level

Semester	Code No	Course title	Total credit hours	Percentage
First	EPM201	Ethics and professional Moral	30	10.5
	PHY202	General Physiology	45	15.7
	NCN203	General Nutrition and clinical nutrition	45	15.7
	BHM204	General behavior and husbandry	45	15.7
	AWD205	General Breeding and animal production	45	15.7
	AWD 206	Economics and Farm management	45	15.7
		Elective course	30	10.5
TOTAL			285	

Semester	Code No	Course title	Total credit hours	Percentage
Second	PHY207	Special Physiology	45	21.4
	PHM208	special Behavior	45	21.4
	AWD209	Special breeding and animal Production	45	21.4
	NCN210	Special Nutrition and clinical nutrition	45	21.4
		Elective course*	30	14.3
TOTAL			210	

*Second level elective courses from 5 to 8 listed in elective schedule.



*Bachelor of Veterinary Medicine(Poultry Medicine)Programme Specification
Faculty of Veterinary Medicine – Zagazig University*

Third Level

Semester	Code No	Course title	Total credit hours	Percentage
First	RCM301	Risk and crisis management	30	10.5
	PTH303	General Pathology	45	15.8
	MIC304	General Bacteriology, mycology and immunology	45	15.8
	VIR305	General Virology	45	15.8
	PAR306	General Parasitology	45	15.8
	PHA307	General Pharmacology	45	15.8
	FCNT 538	Elective course	30	10.5
Total			285	

Semester	Code No	Course title	Total credit hours	Percentage
Second	FSM302	Feasibility Study and Marketing	45	15
	PTH308	special Pathology	45	15
	MIC309	Special Bacteriology, mycology and immunology	45	15
	VIR310	Special Virology	45	15
	PAR311	Special Parasitology	45	15
	PHA312	special Pharmacology	45	15
			Elective course*	30
Total			300	

*Third level elective courses from 9 to 12 listed in elective schedule.



Fourth Level

Semester	Code No	Course title	Total credit hours	Percentage
First	CPA401	General clinical pathology	45	13.6
	TFM402	Toxicology	45	13.6
	FHS405	General milk hygiene, safety and technology	30	13.6
	OGA406	General gynecology and obstetrics	45	13.6
	PRM407	Nutritional deficiency diseases of Poultry	45	13.6
	ALM410	Fish diseases and management	45	13.6
	ANM 413	General infectious diseases	45	13.6
		Elective course*	30	9.09
Total			330	

Semester	Code No	Course title	Total Contact hours	Percentage
Second	TFM403	Forensic Medicine and Veterinary regulations	45	13.6
	VPH404	Epidemiology	45	13.6
	CPA408	Special clinical pathology	45	13.6
	FHS409	Special milk hygiene, safety and technology	30	9.09
	VPH411	Farm animal hygiene and Biosecurity	45	13.6
	OGA412	Special gynecology and Artificial insemination	45	13.6
	ANM 414	General internal medicine	45	13.6
		Elective course*	30	9.09
Total			330	

*Fourth level elective courses from 13 to 16 listed in elective schedule.



*Bachelor of Veterinary Medicine(Poultry Medicine)Programme Specification
Faculty of Veterinary Medicine – Zagazig University*

Fifth Level

Semester	Code No	Course title	Total credit hours	Percentage
First	VPH501	Environmental health and pollution	45	14.2
	SAR502	General Surgery	45	14.2
	BRM503	Bacterial and mycotic poultry diseases	45	14.2
	BRM504	Viral Poultry Diseases	45	14.2
	BRM505	Parasitic poultry diseases	30	9.5
	FHS506	General Hygienic, safety and meat technology	45	14.2
	ANM 512	Special internal medicine	30	9.5
		Elective course*	30	9.5
Total			315	

Semester	Code No	Course title	Total credit hours	Percentage
	BRM507	Poultry Vaccine	30	10
	ZON508	Zoonotic Diseases	45	15
	FHS509	Special hygiene, safety and meat technology	45	15
	BRM510	Laboratory Diagnosis of Poultry Diseases	45	15
	FHS511	Poultry By Product	45	15
	ANM 513	Special infectious diseases	30	10
	SAR 514	Special surgery	30	10
		Elective course*	30	10
Total			300	

*Fifth level elective courses from 17 to 20 listed in elective schedule.



5- Programme courses

5-1- First year- Semester I

Code No	Course title	Total credit hours	No. of hours / week			Programme ILOs covered (by No.)			
			Lect.	Lab.	Total	K,U (a)	I.S (b)	P.S (c)	G.T.S (d)
ELT101	English language and medical terminology	30	2	0	2	1	4,6	-	1
SOP 102	Sociological problems	30	2	0	2	35	1,2, 4	-	1, 2
CHI 103	General histology	45	2	1	4	2,3	3, 4	20	1, 2, 12
ANE104	General Anatomy and embryology	45	2	1	4	1,2,3, 33	3, 6,10	17,18	1, 6,12
AWD105	General vet Genetics and genetic engineering	30	1	1	3	1,7,11	4,6,8	3,13	1, 6
BMB106	Basic Biochemistry	45	2	1	4	1,2, 6	5,6	22	1,13
	Elective Course	30	1	1	3				
	Total	255	12	5(10)					



*Bachelor of Veterinary Medicine(Poultry Medicine)ProgrammeSpecification
Faculty of Veterinary Medicine – Zagazig University*

5-2- First year- Semester II

Code No	Course title	Total Credit hours	No. of hours / week			Programme ILOs covered (by No.)			
			Lect.	Lab.	Total	K,U (a)	I.S (b)	P.S (c)	G.T.S (d)
AWD107	Biostatistics and computer	45	2	1	3	6, 8	4,6,15	22	6
CHI108	Special Histology and cytology	45	2	1	3	2,3	3, 4	20	1, 2, 12
ANE109	special Anatomy and embryology	45	2	1	3	2, 3	3, 6, 10	17,18	1,6, 12, 13
AWD110	Special vet Genetics and genetic engineering	30	1	1	2	1,7,11	4,6,8	3,13	1,6
BMB111	Biochemistry and molecular biology	45	2	1	4	1,6	5,6	3,22	1,13
	Elective course*	30	1	1	2				
	Total	240	10	6 (12)					



*Bachelor of Veterinary Medicine(Poultry Medicine)ProgrammeSpecification
Faculty of Veterinary Medicine – Zagazig University*

Elective courses (First level)

Code No	Course title	Total Credit hours	No. of hours / week			Programme ILOs covered (by No.)			
			Lect.	Lab.	Total	K,U (a)	I.S (b)	P.S (c)	G.T.S (d)
ANE-001	Embalmmnt and Plastination	30	1	1	2	1,6	4,5,6	22	1,6
CHI-002	Histology of wild birds	30	1	1	2	2,3	3, 4	20	1, 2, 12
BMB-003	Dietary Metabolism of Poultry	30	1	1	2	2, 6	4, 5	3,22	1, 13
AWD-004	Poultry Wealth in Arab States	30	2	-	2	14	2,3,4,5,6,7,9,	-	1,2,3,5,6,7,



*Bachelor of Veterinary Medicine(Poultry Medicine)ProgrammeSpecification
Faculty of Veterinary Medicine – Zagazig University*

5-3- Second year- Semester I

Code No	Course title	Total Credit hours	No. of hours / week			Programme ILOs covered (by No.)			
			Lect.	Lab.	Total	K,U (a)	I.S (b)	P.S (c)	G.T.S (d)
EPM201	Ethics and professional Moral	30	2	0	2	32, 33,	6	-	1, 2
PHY202	General Physiology	45	2	1	3	2, 4	6, 10	3, 22	1, 10
NCN203	General Nutrition and clinical nutrition	45	2	1	3	2,6	4,10	3,5	1,8
BHM204	General behavior and husbandry	45	2	1	3	9,34	6	1	1,2
AWD205	General Breeding and animal production	45	2	1	3	7,11,14	7, 9	19	1, 4, 6
AWD206	Economics and farm managements	45	2	1	3	1,8,9	4,7,9	14,19,22	1,2,6,15
	Elective course	30	1	1	2				
	Total	285	12	6(12)					



*Bachelor of Veterinary Medicine(Poultry Medicine)ProgrammeSpecification
Faculty of Veterinary Medicine – Zagazig University*

5-4- Second year- Semester II

Code No	Course title	Total Contact hours	No. of hours / week			Programme ILOs covered (by No.)			
			Lect.	Lab.	Total	K,U (a)	I.S (b)	P.S (c)	G.T.S (d)
PHY207	Special Physiology	45	2	1	3	2,18	4,10	3,18	1, 10
PHM208	special Behavior	45	2	1	3	9,12	2, 6	1, 19	1, 2, 6
AWD209	Special breeding and animal Production	45	2	1	3	9,11	7,9	19	1, 4
NCN210	Special Nutrition and clinical nutrition	45	2	1	3	10	1,6,10	5	1, 8
	Elective course*	30	1	1	2				
	Total	210	9	5(10)					



*Bachelor of Veterinary Medicine(Poultry Medicine)ProgrammeSpecification
Faculty of Veterinary Medicine – Zagazig University*

Elective courses (second level)

Code No	Course title	Total Credit hours	No. of hours / week			Programme ILOs covered (by No.)			
			Lect.	Lab.	Total	K,U (a)	I.S (b)	P.S (c)	G.T.S (d)
PHY-005	Physiology of wild birds	30	1	1	2	2,18	6,10	3,18	1
AWD-006	Genetic Improvement of Poultry	30	1	1	2	1,7,11	4,6,8	3,13	1,6
NCN-007	Clinical Nutrition of Poultry	30	1	1	2	10	5,6,7	25	8
VPH 008	Preparations of poultry farms	30	1	1	2	2,9,22,26,28,32	1,2,3,6	18,22	1,2,4,5,



*Bachelor of Veterinary Medicine(Poultry Medicine)ProgrammeSpecification
Faculty of Veterinary Medicine – Zagazig University*

5-5 Third year - Semester I

Code No	Course title	Total Credit hours	No. of hours / week			Programme ILOs covered (by No.)			
			Lect.	Lab.	Total	K,U (a)	I.S (b)	P.S (c)	G.T.S (d)
RCM301	Risk and crisis management	30	2	0	2	1,24,34	6,7	-	1,12
PTH303	General Pathology	45	2	1	3	15,16	3, 4	3,7,20, 22	12
MIC304	General Bacteriology, mycology and immunology	45	2	1	3	16,17,22	9,11,13	4,23	7,10
VIR305	General Virology	45	2	1	3	15,16,22	3,13	4,24	7,10
PAR306	General Parasitology	45	2	1	3	3,17,22	4, 5	2,4,20	7,10
PHA307	General Pharmacology	45	2	1	3	19,20	4,11,12	11,12, 13,	5
	Elective course	30	1	1	2				
	Total	285	13	6(12)					



*Bachelor of Veterinary Medicine(Poultry Medicine)ProgrammeSpecification
Faculty of Veterinary Medicine – Zagazig University*

5-6 Third year- Semester II

Code No	Course title	Total Credit hours	No. of hours / week			Programme ILOs covered (by No.)			
			Lect.	Lab.	Total	K,U (a)	I.S (b)	P.S (c)	G.T.S (d)
FSM302	Feasibility Study and Marketing	45	2	1	3	1,8,9	4,6,7,9	14,19,22	1,2,6,15
PTH308	special Pathology	45	2	1	3	15,16	3, 4,5	3,7,20, 22	12
MIC309	Special Bacteriology, mycology and immunology	45	2	1	3	17,22	3, 4, 5,11	4,23	7,10
VIR310	Special Virology	45	2	1	3	15,16,22	3,13	4,24	7,10
PAR311	Special Parasitology	45	2	1	3	3,22,17	4, 5	2,4,20	2,3
PHA312	special Pharmacology	45	2	1	3	19,20	4,11,12	11,12, 13	5
	Elective course*	30	1	1	2				
	Total	300	13	7(14)					



*Bachelor of Veterinary Medicine(Poultry Medicine)Programme Specification
Faculty of Veterinary Medicine – Zagazig University*

Elective courses (Third level)

Code No	Course title	Total Credit hours	No. of hours / week			Programme ILOs covered (by No.)			
			Lect.	Lab.	Total	K,U (a)	I.S (b)	P.S (c)	G.T.S (d)
PAT-009	Pathology of Wild Birds	30	1	1	2	15,16	3,4	3,7,20,22	12
MIC-010	Molecular Biology of Bacteria	30	1	1	2	15,16,22,	9,11,13,15	3,4,22	6,7
VIR-011	Viral Diagnostic Biotechnology	30	1	1	2	15,16,22	3,13	4,24	7,10
PHA-012	Drug Marketing and Promotion	30	1	1	2	8	6,14	4	1,5,6



*Bachelor of Veterinary Medicine(Poultry Medicine)ProgrammeSpecification
Faculty of Veterinary Medicine – Zagazig University*

5-7 Fourth year- Semester I

Code No	Course title	Total Credit hours	No. of hours / week			Programme ILOs covered (by No.)			
			Lect.	Lab.	Total	K,U (a)	I.S (b)	P.S (c)	G.T.S (d)
CPA401	General clinical pathology	45	2	1	3	16,17	4,5	3, 4	1,13
TFM402	Toxicology	45	2	1	3	1,24,29	1,2	3,7,17,26	7,14
FHS405	General milk hygiene, safety and technology	30	1	1	2	20,21	9	15	11,14
OGA406	General gynecology and obstetrics	45	2	1	3	5,12,13,14,15,19,25,31	1,2,3,4,5,6,8	3,4,6,8,9,11	1,2,4,6,7
BRM407	Nutritional deficiency diseases of Poultry	45	2	1	3	10,17,24,25	1,3,5,6,8,9	3,5,9,11,13	3,7,8,12
ALM410	Fish diseases and management	45	2	1	3	1,12,16,19,24,25,26	2,3,8,13	3,7,9,11,13,19	1,2,4,7,8
ANM 413	General infectious diseases	45	2	1	3	15, 16,17,22,23,25,35	11,13	2,3,9,11,12,21,23, 24	3,5,7,15
	Elective course*	30	1	1	2				
	Total	330	14	8(16)					



*Bachelor of Veterinary Medicine(Poultry Medicine)ProgrammeSpecification
Faculty of Veterinary Medicine – Zagazig University*

5-8 Fourth year - Semester II

Code No	Course title	Total Credit hours	No. of hours / week			Programme ILOs covered (by No.)			
			Lect.	Lab.	Total	K,U (a)	I.S (b)	P.S (c)	G.T.S (d)
TFM403	Forensic Medicine and Veterinary regulations	45	2	1	3	1,7,27,30	3,5	7,18,26	11,14
VPH404	Epidemiology	45	2	1	3	27,28, 29, 33	4,5	10,16,19	3
CPA408	Special clinical pathology	45	2	1	3	4,16,17, 18	4,5	3, 4	1,11
FHS409	Special milk hygiene, safety and technology	30	1	1	2	20,21	9	15	11,14
VPH411	Hygiene& Biosecurity of poultry farms	45	2	1	3	1,25,26,28,33	4,9	10,19	1,3
OGA 412	Special gynecology and Artificial insemination	45	2	1	3	5, 12,13,14,15	2,3,4,5,6,8	3,4,9,13,17	1,2,4,6
ANM 414	General Internal Medicine	45	2	1	3	15,16 ,19	1,6,8	3,9,11,12,16,17	1,5,10
	Elective course*	30	1	1	2				
	Total	330	14	8(16)	22				



*Bachelor of Veterinary Medicine(Poultry Medicine)ProgrammeSpecification
Faculty of Veterinary Medicine – Zagazig University*

Elective courses (Fourth level)

Code No	Course title	Total Credit hours	No. of hours / week			Programme ILOs covered (by No.)			
			Lect.	Lab.	Total	K,U (a)	I.S (b)	P.S (c)	G.T.S (d)
TFM-013	Special Studies in Toxicology	30	1	1	2	7,24,30	1,2,3	7,17,26	1,14
VPH-14	Hatchery Hygiene	30	1	1	2	13,28,29,33	4	10,16,19	1,3
CAP-15	Cytodiagnosis of Poultry diseases	30	1	1	2	16,17,	4,5	3,4	1,13,19
BHM-016	Ornamental Birds	30	1	1	2	9	6	1	1,2
	Total	120	4	4	8				



*Bachelor of Veterinary Medicine(Poultry Medicine)ProgrammeSpecification
Faculty of Veterinary Medicine – Zagazig University*

5-9 Fifth year- Semester I

Code No	Course title	Total Credit hours	No. of hours / week			Programme ILOs covered (by No.)			
			Lect.	Lab.	Total	K,U (a)	IS (b)	P.S (c)	G.T.S (d)
VPH501	Environmental health and pollution	45	2	1	3	13, 26, 27,28, 33	2, 4,6, 9	10,13	3,4
SAR502	General Surgery	45	2	1	3	17,18,29,31	4,5,8	1,6,8,9,11,17	4,6,9,15
BRM503	Bacterial and mycotic poultry diseases	45	2	1	3	16,17,18,19,24,25	1,3,4,8,11	1,3,4,7,11,13	1,3,4,5,6,7,8,9
BRM504	Viral Poultry Diseases	45	2	1	3	15,17,24,26	4,5,6,9	3,4,9,16,21	1,4,7,10
BRM505	Parasitic poultry diseases	30	1	1	2	17,19,24	1,2,3,4,5	2,3,4,5	1,2,4,5,6
FHS506	Generals Hygienic, safety and meat technology	45	2	1	3	16,22, 25,26,27	1,4,9	10,15,	11,14,15
ANM512	Special internal medicine	30	1	1	2	15,19	6,8	3,4,9,11,25	1,5,8
	Elective course*	30	1	1	2				
	Total	315	13	8(16)					



*Bachelor of Veterinary Medicine(Poultry Medicine)ProgrammeSpecification
Faculty of Veterinary Medicine – Zagazig University*

5-10 Fifth year -Semester II

Code No	Course title	Total credit hours	No. of hours / week			Programme ILOs covered (by No.)			
			Lect.	Lab.	Total	K,U (a)	I.S (b)	P.S (c)	G.T.S (d)
BRM507	Poultry Vaccine	30	1	1	2	17,22,25,26,32,34	1,3,4,8,9,13	7,9,13,16,21	1,6,10,13
ZON508	Zoonotic Diseases	45	2	1	3	1,22,25,26,27	7,13	3, 9,13, 16,21,23,24	1,7
FHS509	Special hygiene, safety and meat technology	45	2	1	3	20, 21, 23, 32	1,6,9	10, 15	1,14,15
BRM510	Laboratory Diagnosis of Poultry Diseases	45	2	1	3	10,13,16,17,18,22,24,25	1,3,4,6,8,13	3,4,7,9,11,13	1,4,10,13
FHS511	Poultry By Product	45	2	1	3	1, 15,26,33	7	10,15,	1,4
ANM 513	Special infectious diseases	30	1	1	2	15, 16,19,23,24, 25	11,13	2,3,9,11,12,21,23, 24	3,5,7
SAR 514	Special surgery	30	1	1	2	18,19	4,5,8	1,6,8,9,11,17	4,6,9
	Elective course*	30	1	1	2				
	Total	300	12	8(16)	20				



*Bachelor of Veterinary Medicine(Poultry Medicine)ProgrammeSpecification
Faculty of Veterinary Medicine – Zagazig University*

Elective courses (Fifth level)

Code No	Course title	Total Credit hours	No. of hours / week			Programme ILOs covered (by No.)			
			Lect.	Lab.	Total	K,U (a)	I.S (b)	P.S (c)	G.T.S (d)
ZON-017	Occupational Zoonoses	30	1	1	2	1,21,27	1,5,8	2,10,13,16,21	1,2,3,4,5
BRM-018	Diseases of Wild and Migratory Birds	30	1	1	2	16,17,19,22,,24,26	1,3,6,9,11,13	3,4,7,9,13,21	1,3,4,10
FHS-019	Poultry Plants Sanitation	30	1	1	2	16,22,25,26,27	1,4,9	10,15,	11,14,15
SAR-020	Surgery of Poultry	30	1	1	2	18,19	4,5,8	8,9,16,17	4,6,9,15



6 - Programme admission requirement:

The student could admit to join the Bachelor of Veterinary Medical Sciences (Poultry Medicine) programme, if he/she has one of the following:

- 1) The general Secondary school certificate, science branch with the grades stated by the Central Admission Office, or has granted bachelor degree of Agriculture (Animal Production).
- 2) A percentage of students enrolled are holders of the equivalent certificates such as the American Diploma and IGCSE.
- 3) A percentage of students from Arab countries with the equivalent grades determined by the Ministry of Higher Education, Central Admission office in the same academic year.
- 4) Students can be transferred from equivalent governmental universities with a condition of minimum good grades and if health and social status necessitate this transfer.

7. Assessment of Student Learning

a. Assessment methods measure student performance in all of the professional competencies in accordance with the stated outcome expectations. Basis on which Assessment of Student Achievements are evaluated:

- Periodic quizzes
- Formal written Exam
- Summative practical assessment
- Laboratories and other written reports
- Problem-solving exercises
- Oral Exam
- Oral presentations

b. For each course, a final written examination is held at the end of each semester, with a score of 50% of the course's assessment scores, in addition to an oral (10 %), practical (25%) and mid-term (15%) exams.

The student must attend 75% of all the lectures and practical hours of the course in order to be allowed to enter the final exam of the course.

c. The student is not considered successful in any course unless he obtains at least a grade "D –"



d. The course in which the student gets a grade "F", he repeats it, and his grade is calculated for him in it as a maximum D.

5) Grading Scheme is as follows:

Percent	Equivalent Rate	GPA	Letter Grade
95% or more	Excellent	4	A+
90% to <95%	Excellent	3.7	A
85% to <90%	Very good	3.3	B+
80% to <85%	Very good	3	B
75% to <80%	good	2.7	C+
70% to <75%	Good	2.3	C
65% to <70%	Good	2	C-
60% to <65%	Pass	1.7	D+
55% to <60%	Pass	1.3	D
50% to <55%	Pass	1	D-
Less than 50%	Fail	zero	F

7 - Regulations for progression and programme completion.

The policy of student retention and progression are determined according to the University regulations. Promotion to the next year requires that student passes. The student to grant bachelor degree require pass in all registered courses and summer training.



8 - Evaluation of programme intended learning outcomes:

Evaluator	Tool	Samples
1- Senior students	Questionnaires and open discussion	50/ Grade
2- Alumni	Questionnaires and open discussion	25
3- Stakeholders (Employers)	Questionnaires and open discussion	Random
4- External Evaluators	Report	-
Other (External examiners)	Report	-

Program coordinator

Shimaa Ezzeldin

Shimaa Ahmed Mohamed Ezzeldein

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