

University of MosulCollege of Veterinary Medicine

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Academic Program Description

University Name: University of Mosul

Faculty/Institute: College of Veterinary Medicine

Academic Program Name: Bachelor in Veterinary Medicine and Surgery

Final Certificate Name: Bachelor in Veterinary Medicine and Surgery

Academic System: Semesters

Description Preparation Date: 1/9/2023

File Completion Date: 1/9/2023

Signature:

Head of Department Name:

Prof. Dr. Dhafer Mohammad Aziz

Date: 1/9/2023

Signature:

Scientific Associate Name:

Prof. Dr. Raad Abdul Ghani Bashir

Date: 1/9/2023

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department

Prof. Dr. Ammar Mahmood Ahmed

Date: 1/9/2023

Signature:

Approval of the Dean

Prof. Dr. Dhafer Mohammad Aziz

1. **Program Vision**

Excellence and creativity in the field of veterinary sciences in accordance with international standards and leadership in veterinary education and scientific research to ensure animal health and livestock development with a healthy environment.

2. Program Mission

Preparing graduates of veterinarians and scientific staff specialized in medical sciences and veterinary surgery to contribute to the prevention of diseases of animals, the diagnosis and treatment of diseases, the preservation and development of livestock, as well as the fight against common diseases and environmental pollution.

3. Program Objectives

- 1. Teaching the students various medical sciences and veterinary surgery during five consecutive years.
- 2. Providing clinical services by faculty professors and with the participation of students in the diagnosis and treatment of animal diseases.
- 3. Providing advice to animal owners, livestock projects and poultry farming on the best ways to manage, develop and improve animal projects.
- 4. Maintaining human health by controlling common diseases that are transmitted from animals to humans.
- 5. Holding continuing education courses in various specialties of veterinary medicine for veterinarians to increase and develop their scientific and clinical information to serve the community.
- 6. Conducting scientific research in various fields of veterinary medicine and working to solve the problems facing livestock in the country.
- 7. Developing and graduating a qualified scientific cadre for teaching and scientific research in various veterinary specialties.
- 8. Improving the environment by controlling environmental pollution, which reflects positively on human health.

4. Program Accreditation

No

5. Other external influences

There is no external sponsor.

6. Program Structure				
Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	5	10	7 %	Basic
College Requirements	66	270	91.7 %	Basic
Department Requirements	-			
Summer Training	1	15	1.3 %	Basic
Other	-			

^{*} This can include notes whether the course is basic or optional.

7. Program D	escription			
X//T1	C C- 1-	Carrena Name	Credit	Hours
Year/Level	Course Code	Course Name	Theoretical	Practical
	<u>VEA1101</u>	Anatomy - 1	2	3
	<u>VEH1103</u>	Animal Management - 1	2	2
	VEA1102	Biology - 1	2	2
First Year	VED1004	Computer Science - 1	1	2
First Semester	<u>VEH1001</u>	Democracy and Human Rights	2	-
	VEP1003	English Language	1	-
	VEP1104	General Chemistry - 1	2	2
	VEM1106	Biorisks Management	1	-
	VEA1106	Anatomy - 2	2	3
	VEH1107	Animal Management - 2	2	2
T7 4 T7	VED1106	Biology - 2	2	2
First Year	VED1005	Computer Science - 2	1	2
Second Semester	VEP1109	General Chemistry - 2	2	2
	VEH1108	Poultry Management	1	2
	VEP1002	Arabic Language	1	-
	VEA2101	Anatomy - 1	2	2
	VEH2105	Animal Nutrition - 1	2	2
Second Year	VEP2104	Biochemistry - 1	3	2
First Semester	VEA2102	Histology - 1	2	3
	VEP2103	Physiology - 1	4	2
	VEH2106	Genetics	2	-
	VEA2107	Anatomy - 2	2	2
	VEH2111	Animal Nutrition - 2	2	2
G 177	VEP2110	Biochemistry - 2	3	2
Second Year	VEA2108	Histology - 2	2	3
Second Semester	VEP2109	Physiology - 2	4	2
	VEH2113	Statistics	2	2
	VEA2112	Embryology	2	-
	VEM3104	General Microbiology	3	2
	VED3100	General Pathology	3	3
Third Year	VEM3102	Helminthology	3	2
First Semester	VEM3115	Immunology	2	2
	VEP3101	Pharmacology - 1	3	2
	VEH3116	Toxicology	2	-

	<u>VEM3122</u>	Protozoa and Arthropod	3	2
	VEM3124	Special Microbiology	3	2
Third Year	VED3120	Systemic Pathology	3	3
Second Semester	<u>VEP3121</u>	Pharmacology - 2	3	2
	VEM3126	Virology	2	2
	VEC3127	Veterinary Clinic	-	2
	VED4119	Clinical Pathology - 1	1	2
	VED4113	Female Fertility	2	2
	VED4117	Infectious Diseases - 1	3	-
Fourth Year	VED4110	Internal Medicine - 1	3	-
First Semester	VED4111	Morbid Anatomy - 1	1	2
	VED4114	Poultry Diseases - 1	2	2
	VED4115	Surgery - 1	3	2
	VEC4112	Veterinary Clinic - 1	-	4
	VED4127	Clinical Pathology - 2	1	2
	VED4126	Infectious Diseases - 2	3	-
	VED4128	Internal Medicine - 2	3	-
	VED4121	Morbid Anatomy - 2	1	2
Fourth Year Second Semester	VED4124	Poultry Diseases - 2	2	2
Second Semester	VED4125	Surgery - 2	3	2
	VEC4123	Veterinary Clinic - 2	-	4
	VED4122	Veterinary Obstetrics	2	2
	VED4107	Zoonotic Diseases	2	-
	VED5110	Fish Diseases	2	2
	VED5113	Internal Medicine - 1	3	-
Fifth Year	VEC5111	Male Fertility	1	2
First Semester	VEH5114	Meat Hygiene	2	2
	VEC5115	Surgery - 1	2	2
	VEC5112	Veterinary Clinic - 1	-	14
	VED5120	Internal Medicine - 2	3	-
	VEH5121	Milk Hygiene	2	2
	VEC5117	Reproductive Biotechnology	1	2
T*6/1 X7	VEC5123	Surgery - 2	2	2
Fifth Year	VEC5118	Veterinary Clinic - 2	-	12
Second Semester	VEC5119	Veterinary Ethics	1	-
	VED5122	Veterinary Forensic Medicine	1	_
1	VED3122	v cici mai y i orchisic iviculcine	1	
	<u>VEC5125</u>	Research Projects	1	1

8. Expected learning outcomes of the program	
Knowledge	
A1. Knowledge of the basic anatomy of animals.	
A2. Knowledge of animal production, animal husbandry.	
A3. Knowledge of animal diseases and their causes.	
A4. Knowledge of animal treatment and preventing diseases.	
Skills	
B1 . Find out the methods of administration of the medication in various	
animals; orally and intramuscular, subcutaneous or intravenous	
injection.	
B2. Knowledge of surgical operation techniques.	
B3 . Examining the dead animals, conducting a pathological autopsy and	
taking	
B4 . Knowledge of pregnancy diagnosis and obstetrics in farm animals.	
Ethics	
C1. Deal sincerely with animal breeders, professional colleagues and	
competent authorities.	
C2. Work professionally with respect to the professional and legal	
responsibilities of the veterinarian and understand and apply the laws	
on the ethics of the veterinary profession.	
C3. Not to be affected by economic and emotional pressures when	
making decisions.	
C4. Provide emergency care for all kinds of animals.	

9. Teaching and Learning Strategies

- Theoretical lectures.
- Practical work in laboratory.
- Practical classes utilizing live animals.
- Practice in the University Veterinary Clinic.

10. Evaluation methods

- Written Examination.
- Practical Examination.
- Objective Structured Practical Veterinary examination (OSPVE).

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Faci	ılty Members						
Academic Rank		llization	Special Requirements/Skills (if applicable)	Number of the teaching staff			
	General	Special		Staff	Lecturer		
	Vet. Med. Surgery	Vet. Microbiology		4			
	Vet. Med. Surgery	Vet. Pharmacology		4			
	Vet. Med. Surgery	Vet. Pathology		3			
	Vet. Med. Surgery	Vet. Obstetrics		2			
	Vet. Med. Surgery	Vet. Surgery		2			
D	Vet. Med. Surgery	Vet. Public Health		3			
Professor	Vet. Med. Surgery	Vet. Medicine		3			
	Vet. Med. Surgery	Vet. Parasitology		4			
	Vet. Med. Surgery	Vet. Physiology		2			
	Vet. Med. Surgery	Vet. Biochemistry		1			
	Sciences	Microbiology		1			
	Agriculture	Animal Breeding		1			
	Vet. Med. Surgery	Vet. Microbiology		5			
	Vet. Med. Surgery	Vet. Anatomy		4			
	Vet. Med. Surgery	Vet. Pharmacology		2			
	Vet. Med. Surgery	Vet. Toxicology		2			
	Vet. Med. Surgery	Vet. Pathology		5			
	Vet. Med. Surgery	Vet. Obstetrics		5			
A:	Vet. Med. Surgery	Vet. Surgery		8			
Assistant	Vet. Med. Surgery	Vet. Public Health		3			
Professor	Vet. Med. Surgery	Vet. Medicine		8			
	Vet. Med. Surgery	Vet. Parasitology		4			
	Vet. Med. Surgery	Vet. Physiology		5			
	Vet. Med. Surgery	Vet. Biochemistry		1			
	Sciences	Microbiology		1			
	Sciences	Parasitology		1			
	Sciences	Biochemistry		1			
	Vet. Med. Surgery	Vet. Microbiology		3			
	Vet. Med. Surgery	Vet. Anatomy		2			
	Vet. Med. Surgery	Vet. Pharmacology		7			
	Vet. Med. Surgery	Poultry Diseases		4			
	Vet. Med. Surgery	Vet. Clinical Pathol.		4			
	Vet. Med. Surgery	Vet. Immunology		1			
Lecturer	Vet. Med. Surgery	Vet. Pathology		5			
	Vet. Med. Surgery	Vet. Obstetrics		1			
	Vet. Med. Surgery	Vet. Surgery		3			
	Vet. Med. Surgery	Vet. Public Health		2			
	Vet. Med. Surgery	Vet. Medicine		1			
	Vet. Med. Surgery	Vet. Parasitology		1			
	Vet. Med. Surgery	Vet. Physiology		5			

	Vet. Med. Surgery	Vet. Biochemistry	3	
	Sciences	Genetic	1	
	Sciences	Chemistry	1	
	Agriculture	Animal Nutrition	1	
	Agriculture	Animal Physiology	1	
	Vet. Med. Surgery	Vet. Microbiology	1	
	Vet. Med. Surgery	Vet. Anatomy	3	
	Vet. Med. Surgery	Vet. Pharmacology	1	
	Vet. Med. Surgery	Vet. Pathology	3	
Assistant	Vet. Med. Surgery	Vet. Surgery	1	
Lecturer	Vet. Med. Surgery	Vet. Public Health	1	
Lecturer	Vet. Med. Surgery	Vet. Medicine	1	
	Vet. Med. Surgery	Vet. Parasitology	3	
	Vet. Med. Surgery	Vet. Clinical Pathol.	2	
	Sciences	Chemistry	1	
	Agriculture	Animal Nutrition	1	

Professional Development

Mentoring new faculty members

New faculty members must do the following:

- 1. Completing teaching methods courses and passing related exams.
- 2. Passing the teaching suitability test.

Professional development of faculty members

Faculty members are developed through the following:

- 1. Training courses in the field of computers and its applications.
- 2. Training courses in the field of English.
- 3. Specialized training courses in the faculty member's field of specialization.

12. Acceptance Criterion

Students are admitted to college through central admission

13. The most important sources of information about the program

- 1. Instructions for approving curricula issued by the Ministry of Higher Education and Scientific Research.
- 2. Curriculum requirements approved by program accreditation committees for colleges of veterinary medicine

14. Program Development Plan

- 1. Forming a higher committee to match the approved curricula with the approved curricula in scientific universities.
- 2. Choose reputable universities and view the curricula approved therein.
- 3. Approving the recommendations issued by the Supreme Committee for Curriculum Conformity.

	Program Skills Outline														
						Re	equire	d pro	gram	Lear	ning o	utcon	nes		
Year/Level	Course	Course Name	Basic or		Know	ledge)		Sk	ills			Etl	nics	
	Code		optional	A1	A2	A3	A4	B1	B2	В3	B4	C1	C2	C3	C4
	VEA1101	Anatomy - 1	Basic	X											
	VEH1103	Animal Management - 1	Basic		X			X				X			
	VEA1102	Biology - 1	Basic			X				X			X		
First Year	VED1004	Computer Science - 1	Basic		X					X					
First Semester	VEH1001	Democracy and Human Rights	Basic												X
	VEP1003	English Language	Basic		X				X						
	VEP1104	General Chemistry - 1	Basic					X							
	<u>VEM1106</u>	Biorisks Management	Basic			X				X			X		
	VEA1106	Anatomy - 2	Basic	X											
	VEH1107	Animal Management - 2	Basic		X			X				X			
First Year	VED1106	Biology - 2	Basic			X				X			X		
Second Semester	<u>VED1005</u>	Computer Science - 2	Basic		X					X					
Second Semester	VEP1109	General Chemistry - 2	Basic					X							
	<u>VEH1108</u>	Poultry Management	Basic		X			X				X			
	VEP1002	Arabic Language	Basic												X
	VEA2101	Anatomy - 1	Basic	X											
	<u>VEH2105</u>	Animal Nutrition - 1	Basic		X			X							
Second Year	VEP2104	Biochemistry - 1	Basic					X		X					
First Semester	<u>VEA2102</u>	Histology - 1	Basic	X											
	<u>VEP2103</u>	Physiology - 1	Basic		X			X		X					
	<u>VEH2106</u>	Genetics	Basic			X		X							
	<u>VEA2107</u>	Anatomy - 2	Basic	X											
	<u>VEH2111</u>	Animal Nutrition - 2	Basic		X			X							
Second Year	<u>VEP2110</u>	Biochemistry - 2	Basic					X		X					
Second Semester	<u>VEA2108</u>	Histology - 2	Basic	X											
Second Semester	<u>VEP2109</u>	Physiology - 2	Basic		X			X		X					
	<u>VEH2113</u>	Statistics	Basic		X					X					
	VEA2112	Embryology	Basic	X											

	VEM3104	General Microbiology	Basic			X	X			X			X		
	VED3100	General Pathology	Basic	X		X				X					
Third Year	VEM3102	Helminthology	Basic			X	X			X			X		
First Semester	<u>VEM3115</u>	Immunology	Basic			X	X			X			X		
	VEP3101	Pharmacology - 1	Basic				X	X							X
	VEH3116	Toxicology	Basic				X	X							X
	<u>VEM3122</u>	Protozoa and Arthropod	Basic			X	X			X			X		
	<u>VEM3124</u>	Special Microbiology	Basic			X	X			X			X		
Third Year	VED3120	Systemic Pathology	Basic	X		X				X					
Second Semester	VEP3121	Pharmacology - 2	Basic				X	X							X
	<u>VEM3126</u>	Virology	Basic			X	X			X			X		
	VEC3127	Veterinary Clinic	Basic		X				X			X			
	VED4119	Clinical Pathology - 1	Basic		X				X				X		
	VED4113	Female Fertility	Basic	X	X	X	X	X			X	X	X	X	X
	VED4117	Infectious Diseases - 1	Basic		X				X				X		
Fourth Year	VED4110	Internal Medicine - 1	Basic		X				X				X		
First Semester	VED4111	Morbid Anatomy - 1	Basic	X		X	X			X				X	
	VED4114	Poultry Diseases - 1	Basic	X	X	X	X			X		X	X		
	VED4115	Surgery - 1	Basic	X				X	X						
	VEC4112	Veterinary Clinic - 1	Basic		X				X				X		
	VED4127	Clinical Pathology - 2	Basic		X				X				X		
	VED4126	Infectious Diseases - 2	Basic		X				X				X		
	VED4128	Internal Medicine - 2	Basic		X				X				X		
E 41 37	VED4121	Morbid Anatomy - 2	Basic	X		X	X			X				X	
Fourth Year Second Semester	VED4124	Poultry Diseases - 2	Basic	X	X	X	X			X		X	X		
Second Semester	VED4125	Surgery - 2	Basic	X				X	X						
	VEC4123	Veterinary Clinic - 2	Basic		X				X				X		
	VED4122	Veterinary Obstetrics	Basic	X	X	X	X	X	X		X	X	X	X	X
	VED4107	Zoonotic Diseases	Basic			X				X			X		
	<u>VED5110</u>	Fish Diseases	Basic	X	X	X	X			X		X	X		
E:Ab Voor	<u>VED5113</u>	Internal Medicine - 1	Basic	X					X				X		
Fifth Year First Semester	VEC5111	Male Fertility	Basic	X	X	X	X	X			X	X	X	X	X
riist Semester	VEH5114	Meat Hygiene	Basic	X				X							
	<u>VEC5115</u>	Surgery - 1	Basic	X				X	X						

	<u>VEC5112</u>	Veterinary Clinic - 1	Basic	X					X				X		
	VED5120	Internal Medicine - 2	Basic	X					X				X		
	VEH5121	Milk Hygiene	Basic	X				X							
VI	VEC5117	Reproductive Biotechnology	Basic	X				X	X		X	X	X	X	X
Fifth Year	VEC5123	Surgery - 2	Basic	X				X	X						
Second Semester	VEC5118	Veterinary Clinic - 2	Basic	X					X				X		
Second Semester	VEC5119	Veterinary Ethics	Basic		X							X	X	X	X
	VED5122	Veterinary Forensic Medicine	Basic	X	X	X	X			X	X	X	X	X	
_	VEC5125	Research Projects	Basic		X				X				X		
	VEC5109	Summer Clinic	Basic	X					X				X	·	

	Course Descrip	ption Form	
1. Course Name:			
Anatomy - 1			
2. Course Code:			
VEA1101			
3. Semester / Year:			
First Semester / F	irst Year		
4 D ' ' ' D	t' D.t		
4. Description Prepar	ation Date:		
1 / 9 / 2023	_		
5. Available Attendar	nce Forms:		
• Theoretical lec	tures.		
Practical work	in laboratory.		
	II (T + 1) /NI	1 (11 '/ (7 / 1)	
6. Number of Credit l	\ /	` /	
	Credit Hours	Units	
Theoretical	2	2	
Practical Table	<u>3</u> 5	1.5	
Total	3	3.5	
7. Course administrat	or's name (mention	n all, if more than one name)	
Name:			
Email:			
0 0 01: 4:			
8. Course Objectives Course Objectives •			
Course Objectives			
0 7 11			
9. Teaching and Lear	<u> </u>		
		ets through theoretical lectures. al applications in laboratories.	
	repare a scientific relat		
	1	L	

- Theoretical Subjects:

Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1	2		Introduction to anatomy		
2-4	6		General osteology		
5-7	6		Myology	Theoretical	Written
8-10	6		General syndesmology		Exam
8-10	6		(arthrology)	lectures	Exam
11-12	4		Endocrine glands		
13-15	6		Sense organs		

- Pi	ractical	Subjects:			
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3		Bones of thoracic limb, joints, scapula of horse		
2	3		Humerus and comparative anatomy		
3	3		Radius and ulna with comparison		
4	3		Carpal bones in horse and metacarpal and phalanges bones		
5	3		Muscles of the shoulder griddle of the sheep		
6	3		The lateral surface of shoulder muscles and arm in sheep		
7	3		The medial surface of shoulder muscles and arm in sheep	Practical	Practical
8	3		Muscles of the forearm and manus (extensors and flexors)	work in laboratory	Exam
9	3		Review		
10	3		Practical examination		
11	3		Arteries and nerves of the thoracic limb in sheep		
12	3		Thoracic, lumbar vertebrae and sacrum in horse		
13	3		Ribs and sterium in horse		
14	3		The hoof in horse and claw of the ox		
15	3		Urinary system (kidneys, ureter and urinary bladder)		

11.Course Evaluation	1			
	Course Exam	Final Exam	Sum	_
Theoretical	23	34	57	-
Practical	17	26	43	
Total	40	60	100	-

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

Course Description Form
1. Course Name:
Animal Management - 1
2. Course Code:
VEH1103
2 C
3. Semester / Year:
First Semester / First Year
4. Description Preparation Date:
1 / 9 / 2023
5. Available Attendance Forms:
Theoretical lectures.
Practical classes utilizing live animals.
6. Number of Credit Hours (Total) / Number of Units (Total)
Credit Hours Units
Theoretical 2 2
Practical 2 1
Total 4 3
7. Course administrator's name (mention all, if more than one name)
Name:
Email:
8. Course Objectives
Course Objectives •
•
9. Teaching and Learning Strategies
Strategy • Explanation of scientific subjects through theoretical lectures.
Training of students for practical applications in laboratories.
Student prepare a scientific related reports.

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Introduction to animal welfare		
2-3	4		Animal wealth and its importance	Theoretical	Written
4-7	8		Horses	lectures	Exam
8-11	8		Cattle		
12-15	8		Sheep and Goats		

	ucticui	Subjects.			
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-4	8		External features of farm animals		
5-7	6		Methods of approaching, restraint and casting of horses		
8-10	6		Methods of approaching, restraint and casting of cattle, camel	Practical work in	Practical
11	2		Exam	laboratory	Exam
12-14	6		Methods of approaching, restraint and casting of sheep		
15	2		Vices of horses		

11.Course Evaluation				
	Course Exam	Final Exam	Sum	
Theoretical	27	40	67	
Practical	13	20	33	
Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	Course E	•	
1. Cours	se Name:		
Biolo	ogy - 1		
2. Cours	se Code:		
VEA	1102		
2 0	, / 37		
	ester / Year:		
First	t Semester / First Year		
4. Desci	ription Preparation Date:		
	9 / 2023		
5. Avail	lable Attendance Forms:		
• T	Theoretical lectures.		
• P	Practical work in laborator	ry.	
6. Numl	ber of Credit Hours (Tota		(Total)
	Credit H		
	oretical 2	2	
-	etical 2	1	
Tota	al 4	3	
7 Cours	se administrator's name (mention all if more th	nan one name)
Name		inclicion un, il more u	ian one name)
Emai			
Dillai			
8. Cours	se Objectives		
Course Object	tives •		
	•		
	•		
9. Teacl	hing and Learning Strates	gies	
Strategy		ic subjects through theore	etical lectures.
	Training of students for	r practical applications in	
	Student prepare a scient	tific related reports.	

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Introduction and definitions		
1			of terms		
2	2		Origin of life		
3	2		The cell		
4	2		Taxonomy of Kingdoms	Theoretical	Written
5-6	4		Phylum: Protozoa	lectures	Exam
7-8	4		Phylum: Platyhelminthes		
9-10	4		Phylum: Nemathelminths		
11	2		Phylum: Arthropoda		
12-15	8		Phylum: Chordata		

- Pi	ractical	Subjects:			
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1	2		The Microscope		
2	2		The Cell		
3-4	4		Protozoa / Mastigophora		
5	2		Protozoa / Sarcodena		
6	2		Protozoa / Ciliphora		
7	2		Protozoa / Sporozoa	Practical	Practical
8	2		Nematoda / Ascaris	work in	Exam
9	2		Nematoda / Ancylostoma	laboratory	Exam
10	2		Trematoda / Fasciola		
11	2		Trematoda / Schistosoma		
12	2		Cestoda / Taenia		
13	2		Mosquitoes		
14-15	4		Phylum: Chordata (dissecting)		

11.Course Evaluation	1		
	Course Exam	Final Exam	Sum
Theoretical	27	40	67
Practical	13	20	33
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

1. Cours	se Name:		
Comp	puter Science - 1		
2. Cours	se Code:		
VED	1004		
2 C			
	ester / Year:		
First	Semester / First Ye	ear	
4. Desci	ription Preparation D	Date:	
	0 / 2023		
2.7			
5. Avail	lable Attendance For	ms:	
• T	heoretical lectures.		
• P	ractical work in labo	oratory.	
6. Numl	ber of Credit Hours ((Total) / Numbe	er of Units (Total)
	Cred	dit Hours	Units
Theo	oretical	1	1
Prac	etical	2	1
Tota	al	3	2
		me (mention all	l, if more than one name)
Name	e:		
Emai	1:		
0 0	01.1		
	se Objectives		
Course Object	tives		
	•		
9. Teach	hing and Learning St	rategies	
Strategy			rough theoretical lectures.
			oplications in laboratories.
	Student prepare a	scientific related	reports.

- Theoretical Subjects:

Week	Hours	•	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
			Introduction to digital world		
1-3	3		and computer system		
			(generations)		
1.5	2		Data representation in	Tr1 4: 1	VV
4-5	2		computer's memory	Theoretical	Written
6-8	3		Numerical systems	lectures	Exam
9-12	4		Introduction to Windows		
13-15	2		Definition of (task bar, start		
15-15	3		menu, icons)		

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-5	10		Using computer	Due etical	
6-10	10		Practicing with GWBASIC instructions	Practical work in	Practical Exam
11-15	10		Practicing with windows	laboratory	

11.Course Evalu	ation			
	Course Exam	Final Exam	Sum	
Theoretica	1 20	30	50	
Practical	20	30	50	
Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

Course Description Form
1. Course Name:
Democracy and Human Rights
2. Course Code:
VEH1001
VEIIIOUI
3. Semester / Year:
First Semester / First Year
4. Description Preparation Date:
1 / 9 / 2023
5. Available Attendance Forms:
Theoretical lectures.
6. Number of Credit Hours (Total) / Number of Units (Total)
Credit Hours Units
Theoretical 2 2
Total 2 2
7. Course administrator's name (mention all, if more than one name)
Name:
Email:
8. Course Objectives
Course Objectives •
9. Teaching and Learning Strategies
• Explanation of scientific subjects through theoretical lectures.
 Training of students for practical applications in laboratories. Student prepare a scientific related reports.
Student prepare a scientific related reports.

- Theoretical Subjects:

- 11	- Theoretical Subjects.				
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes	· ·	method	method
1	2		Definition of democracy		
2-3	4		Types of democracy		
4-5	4		Classification of democracy		
6-7	4		Evaluation of democracy		
8	2		Human right between Islam		
0	2		and laws		
9	2		Historical development of	Theoretical	Written
9	2		human right	lectures	Exam
10-11	4		Human right and its types	icciuics	LAdili
12-13	4		Insurance to protection of		
12-13	4		human rights		
14	2		Childhood protection in		
14	2		Islam		
15	2		Childhood protection in		
13			Laws		

11.Course Eva	luation		
	Course Exam	Final Exam	Sum
Theoreti	cal 40	60	100
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	*
1. Course	Name:
English	1 Language
2. Course	Code:
VEP10	003
3. Semest	er / Year:
First S	emester / First Year
	otion Preparation Date:
1/9/	2023
F 4 '1 1	1 4 1 1
	ble Attendance Forms:
• The	eoretical lectures.
C N 1	
6. Numbe	r of Credit Hours (Total) / Number of Units (Total)
	Credit Hours Units
Theore	etical 1 1 1
Total	1 1
	administrator's name (mention all, if more than one name)
Name:	
Email:	
8. Course	Objectives
Course Objectiv	es •
	•
	•
0 T 1:	11 ' 0, , '
	ng and Learning Strategies
Strategy	• Explanation of scientific subjects through theoretical lectures.
	• Training of students for practical applications in laboratories.
	Student prepare a scientific related reports.

10. Course Structure - Theoretical Subjects:					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
				Theoretical lectures	Written Exam

11.Course Evaluation				
	Course Exam	Final Exam	Sum	
Theoretical	40	60	100	
Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

1. Course Name: General Chemistry - 1 2. Course Code: VEP1104 3. Semester / Year: First Semester / First Year 4. Description Preparation Date: 1 / 9 / 2023 5. Available Attendance Forms: • Theoretical lectures. • Practical work in laboratory. 6. Number of Credit Hours (Total) / Number of Units (Total)
2. Course Code: VEP1104 3. Semester / Year: First Semester / First Year 4. Description Preparation Date: 1 / 9 / 2023 5. Available Attendance Forms: • Theoretical lectures. • Practical work in laboratory. 6. Number of Credit Hours (Total) / Number of Units (Total)
3. Semester / Year: First Semester / First Year 4. Description Preparation Date: 1 / 9 / 2023 5. Available Attendance Forms: • Theoretical lectures. • Practical work in laboratory. 6. Number of Credit Hours (Total) / Number of Units (Total)
3. Semester / Year: First Semester / First Year 4. Description Preparation Date: 1 / 9 / 2023 5. Available Attendance Forms: • Theoretical lectures. • Practical work in laboratory. 6. Number of Credit Hours (Total) / Number of Units (Total)
3. Semester / Year: First Semester / First Year 4. Description Preparation Date: 1 / 9 / 2023 5. Available Attendance Forms: • Theoretical lectures. • Practical work in laboratory. 6. Number of Credit Hours (Total) / Number of Units (Total)
First Semester / First Year 4. Description Preparation Date: 1 / 9 / 2023 5. Available Attendance Forms: • Theoretical lectures. • Practical work in laboratory. 6. Number of Credit Hours (Total) / Number of Units (Total)
First Semester / First Year 4. Description Preparation Date: 1 / 9 / 2023 5. Available Attendance Forms: • Theoretical lectures. • Practical work in laboratory. 6. Number of Credit Hours (Total) / Number of Units (Total)
 4. Description Preparation Date: 1 / 9 / 2023 5. Available Attendance Forms: Theoretical lectures. Practical work in laboratory. 6. Number of Credit Hours (Total) / Number of Units (Total)
 5. Available Attendance Forms: Theoretical lectures. Practical work in laboratory. 6. Number of Credit Hours (Total) / Number of Units (Total)
 5. Available Attendance Forms: Theoretical lectures. Practical work in laboratory. 6. Number of Credit Hours (Total) / Number of Units (Total)
 Theoretical lectures. Practical work in laboratory. 6. Number of Credit Hours (Total) / Number of Units (Total)
 Theoretical lectures. Practical work in laboratory. 6. Number of Credit Hours (Total) / Number of Units (Total)
 Practical work in laboratory. 6. Number of Credit Hours (Total) / Number of Units (Total)
6. Number of Credit Hours (Total) / Number of Units (Total)
Credit Hours Units
Theoretical 2 2
Practical 2 1
Total 4 3
7. Course administrator's name (mention all, if more than one name)
Name:
Email:
8. Course Objectives
Course Objectives •
•
<u> </u>
9. Teaching and Learning Strategies
Strategy • Explanation of scientific subjects through theoretical lectures.
Training of students for practical applications in laboratories.
Student prepare a scientific related reports.

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2	4		Atoms and electronic structure		
3-4	4		Types of chemical bonds	•	
5	2		Acid base theory		
6-7	4		Volumetric analysis		
8-9	4		Organic chemistry	•	
10	2		Alkynes and aromatic compounds	Theoretical lectures	Written Exam
11-12	4		Organichalides, ethers, alcohol and phenols	ricetures	Lam
13	2		Aldehydes and Ketones		
14	2		Carboxylic acids and carboxylic acid derivatives		
15	2		Anhydrides, esters and amides		

- Fractical Subjects:					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2	4		Qualitative analysis of cations		
3-4	4		Analysis of group (1) Ions. (Ag, Hg, pb).		
5-6	4		Analysis of mixture of group (1) ions		
7-8	4		Analysis of group (2) ions. (Cu, Cd, Bi, Hg).	Practical	Practical
9-10	4		Analysis of mixture of group (2) ions	work in laboratory	Exam
11-12	4		Analysis of mixture of group (1) and group (2).		
13-14	4		Titration, practice on titration with water.		
15	2		Preparation of standard Na20 solution		

11.Course Evaluation	n		
	Course Exam	Final Exam	Sum
Theoretical	27	40	67
Practical	13	20	33
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

1. Course Na	me:
Biorisks M	Ianagement
2. Course Co	
VEM1106	
2 0 /	V 7
3. Semester /	
First Sem	ester / First Year
4. Description	n Preparation Date:
1/9/202	
5. Available	Attendance Forms:
• Theore	etical lectures.
6. Number of	Credit Hours (Total) / Number of Units (Total)
	Credit Hours Units
Theoretic	al 1 1
Total	1 1
7 0 1	11 10 1
	ministrator's name (mention all, if more than one name)
Name:	
Email:	
0 0 01	• ,•
8. Course Ob	jectives
Course Objectives	•
	•
	and Learning Strategies
	Explanation of scientific subjects through theoretical lectures.
	Training of students for practical applications in laboratories.
•	Student prepare a scientific related reports.

- Theoretical Subjects:

- Theoretical Subjects:					
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1	1		Introduction: Definitions and		
1	1		Concepts		
2	1		Biological Materials		
3	1		Personal protective		
3	1		equipment		
4	1		Laboratory safety symbols		
4	1		and hazard signs.		
5	1		Risks groups and Biosafety		
3	1		Levels		
6	1		Biosafety cabinet classes		
7	1		Standard Microbiology		
/	1		Techniques and Safety		
8	1		Safe use of laboratory	Theoretical	Written
	1		equipment	lectures	Exam
			Collection, handling and	icciuics	LAdin
9	1		transport of diagnostic		
			specimens		
10	1		Decontamination and waste		
10	1		disposal		
11	1		Working with potentially		
	-		infected animals		
12-13	2		Hazardous chemicals		
			Preparedness and response		
14	1		to Chemical, Biological		
			accidents		
15	1		First aid and emergency		
13	1		response in the Laboratories		

11.Course Evaluation	n		
	Course Exam	Final Exam	Sum
Theoretical	40	60	100
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	Course Descript	ion Form	
1. Course Name:			
Anatomy - 2			
2. Course Code:			
VEA1106			
3. Semester / Year:			
Second Semester	/ First Vear		
Second Semester	Trist icai		
4. Description Prepar	ation Date:		
1 / 9 / 2023			
5. Available Attendar			
• Theoretical lec	tures.		
Practical work	in laboratory.		
(N 1 CC 1'4)	T (T , 1) / NI	1 CII '4 (T. 4 1)	
6. Number of Credit	`	`	
	Credit Hours	Units	
Theoretical	2	2	
Practical	3	1.5	
Total	5	3.5	
7. Course administrat	or's name (mention	all, if more than one nar	ne)
Name:	(1110111011	<u>, v</u>	
Email:			
2			
8. Course Objectives			
Course Objectives •			
•			
•			
9. Teaching and Lear	ning Strategies		
		through theoretical lectures	
Training of	of students for practical	applications in laboratories.	
Student pr	epare a scientific relate	ed reports.	

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-3	6		Common Integument		
4-6	6		Urinary System	The ametical	Whitton
7-10	8		Male Genital System	Theoretical	Written Exam
11-13	6		Female Genital System	lectures	Exam
14-16	4		Mammary Gland		

- Practical Subjects:						
Week	Hours	Required Learning Unit or subject name Learning		Learning	Evaluation	
		Outcomes		method	method	
1	3		Comparative anatomy of the pelvic			
1	3		bone			
2	3		Comparative anatomy of the femur			
3	3		Comparative anatomy of the tibia			
	3		and fibula			
4	3		Tarsus and metatarsal bone in horse			
5	3		Muscles of the sublumber, hip and			
			in sheep			
6	3		Muscles of the thigh in sheep			
7	3		Flexor and extensor muscles of the			
,	3		pelvic limb in sheep	Practical		
8	3		Review	work in	Practical	
9	3		Practical examination	laboratory	Exam	
10	3		Arteries and sacrolumbar plexuses	ideoratory		
10	3		and nerves of pelvic limb			
11	3		Inguinal region and mammary gland			
			in sheep			
12	3		Male reproductive system in sheep			
			(testis and scrotum)			
13	3		Female reproductive system in sheep			
			(ovaries, uterine tube and uterus)			
14	3		The eye (tunics, muscles, nerves, chambers)			
1.5	2		Review and Exam			
15	3		Keview aliu Exalli			

11.Course Evaluation						
	Course Exam	Final Exam	Sum			
Theoretical	23	34	57			
Practical	17	26	43			
Total	40	60	100			

12.Learning and Teaching Resources				
Required textbooks (curricular books, if any)				
Main references (sources)				
Recommended books and references (scientific				
journals, reports)				
Electronic References, Websites				

	Cou	ırse Descri	ption Fo	r m	
1. Cour	se Name:				
Anin	nal Management -	- 2			
2. Cour	se Code:				
VEH	I1107				
• •					
_	ester / Year:				
Seco	nd Semester / First	st Year			
1 Daga	mintion Dronovotion	Data			
	ription Preparation 0 / 2023	Date.			
1/9	1 / 2023				
5. Avail	lable Attendance F	orms:			
	Theoretical lectures				
	Practical classes uti		imale		
<u> </u>	Tactical classes uti	iiziiig iive an	111111111111111111111111111111111111111		
6. Num	ber of Credit Hour	s (Total) / Nu	umber of U	nits (Total)	
	Cı	redit Hours	U	Jnits	
The	oretical	2		2	
Prac	etical	2		1	
Tota	al	4		3	
7. Cour	se administrator's r	name (mentic	on all, if mo	ore than one n	ame)
Name	e:				
Emai	1:				
	se Objectives				
Course Objec	tives •				
	•				
9. Teacl	hing and Learning	Strategies			
Strategy	<u>. </u>		ects through t	heoretical lectur	res.
	<u> </u>		_	ons in laboratori	
	Student prepare	a scientific rel	ated reports.		

- Theoretical Subjects:

Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1-4	8		External features of farm animals		
5-7	6		Methods of approaching, restraint and casting of horses		
8-10	6		Methods of approaching, restraint and casting of cattle, camel	Theoretical lectures	Written Exam
11	2		Exam		
12-14	6		Methods of approaching, restraint and casting of sheep for		
15	2		Vices of horses		

Tractical Subjects.					
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1	2		Vices of cows		
2-7	12		Mouth ages for different animals, signs of health: pulse and	Practical	
8-10	6		Care of farm animals, grooming, washing, heating, clipping, drying	work in laboratory	Practical Exam
11	2		Exam		
12-13	4		Sheep dipping		
14-15	4		Shoeing of horses		

11.Course Evaluation	1			
	Course Exam	Final Exam	Sum	_
Theoretical	27	40	67	•
Practical	13	20	33	
Total	40	60	100	•

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	Course Descr	iption F	orm	
1. Course Name:				
Biology - 2				
2. Course Code:				
VED1106				
2 0 1 137				
3. Semester / Year:				
Second Semeste	er / First Year			
4. Description Prep	paration Date:			
1 / 9 / 2023				
5. Available Attend	lance Forms:			
• Theoretical 1	ectures.			
Practical work	rk in laboratory.			
() 1 1 00 1	· II (T + 1) (N	1 0	TT 1: (TD : 1)	
6. Number of Cred	\ /		\ /	
	Credit Hours		<u>Units</u>	
Theoretical	2		2	
Practical	2		1	
Total	4		3	
7. Course administr	rator's name (menti	on all if n	nore than one na	me)
Name:	tator s name (menti	OII 411, 11 11	nore than one ha	
Email:				
Linuii.				
8. Course Objective	es			
Course Objectives •				
•				
•				
9. Teaching and Le	earning Strategies			
	ation of scientific subj	ects through	theoretical lecture	es.
Trainin	g of students for practi	ical applicat	ions in laboratories	
Student	t prepare a scientific re	elated report	s.	

- Theoretical Subjects:

Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1	2		Living organisms		
			Comparison between		
2	2		Prokaryotic & Eukaryotic		
			cells		
3	2		Mitosis: Replication of		
3			Eukaryotic cells		
4	2		Meiosis: Reduction division		
4	2		and Gametogenesis		
5	2		Types of living tissues		
6	2		Stem cells		
7-8	4		Blood composition &	Theoretical	Written
7-0	4		Functions	lectures	Exam
9	2		General characters of		
9			Bacteria		
10	2		General characters of		
10			Viruses		
11	2		Introduction to Molecular		
11			Biology		
12-13	4		Nucleic acid Types &		
12-13			Functions		
14	2		Genes & Chromosomes		
15	2		Genetic Engineering		

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Prokaryotic & Eukaryotic cells		
2	2		Mitosis	Dua ati a a 1	
3-4	4		Bacterial staining	Practical work in	Practical
5-8	8		Types of tissues	laboratory	Exam
9-10	4		Blood film	laboratory	
11-15	10		How to use laboratory equipme		

11.Course Evaluation	1			
	Course Exam	Final Exam	Sum	
Theoretical	27	40	67	
Practical	13	20	33	
Total	40	60	100	•

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	· · · · · · · · · · · ·	ı				
1. Course Name:						
Computer Scien	ice - 2					
2. Course Code:						
VED1005	VED1005					
3. Semester / Years						
Second Semester						
Second Semestr	7 / Tirst Tear					
4. Description Prep	paration Date:					
1 / 9 / 2023						
5. Available Attend	lance Forms:					
• Theoretical 1	ectures.					
 Practical wo 	rk in laboratory.					
6. Number of Cred		imber of Units (Total)				
	Credit Hours	Units				
Theoretical	1	1				
<u>Practical</u>	2	1				
Total	3	2				
7 Course administ	rotor's nome (mentic	on all, if more than one nam	20)			
	Tator 8 harne (mentio	on an, it more than one ham	16)			
Name: Email:						
Elliali:						
	_					
8. Course Objectiv	es					
Course Objectives •						
•						
9. Teaching and Le	earning Strategies					
		cts through theoretical lectures				
	 Explanation of scientific subjects through theoretical lectures. Training of students for practical applications in laboratories. 					
	t prepare a scientific rela					
<u>.</u>	-	•				

10. Course Structure					
- T	heoretic	eal Subjects:			
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-5	5		Using bars in MS-WORD	TP1 4: 1	337 :44
6-10	5		Using bars in MS-POWERPOINT	Theoretical	Written
11-15	5		Using bars in MS-EXCEL	lectures	Exam
- Pı	ractical	Subjects:			
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1-2	4		Looking at MS-WORD interface		
3	2		Application about menu bar		
4	2		Application about format bar		
5	2		Application about standard bar	1	
6	2		Application about painting bar		
7-8	4		Looking at MS-POWERPOINT interface	Practical	Practical
9	2		Application about using bars	work in	Exam
10	2		Looking at MS-EXCEL interface	laboratory	2.maiii
11	2		Application about using bars		
12	2		Application about menu bar		
	_		A 1' (' 1 (C (1	1	
13	2		Application about format bar		

11.Course	Evaluation				
	Cour	se Exam	Final Exam	Sum	
Theo	retical	20	30	50	
Pract	ical	20	30	50	
Total		40	60	100	

15

Application about painting bar

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

Course Description Form
1. Course Name:
General Chemistry - 2
<u> </u>
2. Course Code:
VEP1109
3. Semester / Year:
Second Semester / First Year
4. Description Preparation Date:
1/9/2023
17772023
5. Available Attendance Forms:
Theoretical lectures.
Practical work in laboratory.
6. Number of Credit Hours (Total) / Number of Units (Total)
Credit Hours Units
Theoretical 2 2
Practical 2 1
Total 4 3
7. Course administrator's name (mention all, if more than one name)
Name:
Email:
8. Course Objectives
Course Objectives •
• •
•
9. Teaching and Learning Strategies
• Explanation of scientific subjects through theoretical lectures.
 Training of students for practical applications in laboratories. Student prepare a scientific related reports.
Student prepare a scientific related reports.

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2	4		Introduction, water and		
1 2	'		Carbohydrates		
3	2		Disaccharides		
4	2		Polysaccharides	Theoretical	Written
5-6	4		Lipids, Fats and oils	lectures	Exam
7-9	6		Amino acids		
10-12	6		Peptides		
13-15	6		Nucleic acids		

Tractical Subjects.					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2	4		Standardization of HCl with standard solution of Na2CO3		
3-4	4		Analysis of mixture of NaHCO3 and Na2CO3		
5-6	4		Iodometric titration	Practical	
7-8	4		Self-indicator titration	work in	Practical
9-10	4		Precipitation titration	laboratory	Exam
11-12	4		Determination of the strength volume of H2O2 solution		
13	2		Crystallization		
14-15	4		Determination of melting point		

11.Course Evalu	ation			
	Course Exam	Final Exam	Sum	_
Theoretica	1 27	40	67	
Practical	13	20	33	
Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	_

	1
1. Cours	se Name:
Poult	try Management
2. Cours	se Code:
VEH	[1108
3. Seme	ester / Year:
Seco	nd Semester / First Year
4 Descr	ription Preparation Date:
	0 / 2023
1 /)	7 2023
5. Avail	lable Attendance Forms:
• T	Theoretical lectures.
• P	ractical classes utilizing live animals.
6. Num	ber of Credit Hours (Total) / Number of Units (Total)
	Credit Hours Units
The	oretical 1 1
Prac	etical 2 1
Tota	al 4 2
7.0	1 ' ' () 11 'C (1
	se administrator's name (mention all, if more than one name)
Name	
Emai	1:
8. Cours	se Objectives
Course Object	<u> </u>
	•
	•
0 T 1	hing and I coming Strategies
	hing and Learning Strategies
Strategy	 Explanation of scientific subjects through theoretical lectures. Training of students for practical applications in laboratories.
	 Student prepare a scientific related reports.
<u> </u>	

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	outcomes	Characters of poultry management	memou	method
2-3	2		Terminology and poultry Classification		
4-5	2		Biology of the chickens		
6	1		Egg Structure and Hygiene		
7-8	2		Artificial Hatching and Hatcheries	Theoretical lectures	Written Exam
9-10	2		Brooding and rearing period	10000105	2. Carrie
11	1		Factors affecting egg production		
12	1		Nutrition and Rations Formation		
13	1		Design of poultry Houses		
14-15	2		Vaccination Management		

- Pi	- Practical Subjects:						
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation		
		Outcomes		method	method		
1-2	4		Phenotypic and molting				
3	2		Distinguishing of layers' chicken				
4-5	4		Egg Storage – Disinfection and				
4-3	4		Fumigation				
6-7	4		Anatomy of an adult Hen				
8	2		Demonstration of Hatcheries				
9	2		Poultry Equipment	Practical	Practical		
10	2		Types of poultry diets	work in	Exam		
11-12	4		Calculations of feed components	laboratory	LAum		
11-12	4		in rations				
13	2		Lighting Systems for poultry				
13			breeding				
14	2		Disinfection of Hatcheries and				
17			equipment				
15	2		Disinfection of poultry Houses				

11.Course Evaluation	n		
	Course Exam	Final Exam	Sum
Theoretical	20	30	50
Practical	20	30	50
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	*
1. Course	Name:
English	1 Language
2. Course	Code:
VEP10	003
3. Semest	er / Year:
First S	emester / First Year
	otion Preparation Date:
1/9/	2023
F 4 '1 1	1 4 1 1
	ble Attendance Forms:
• The	eoretical lectures.
C N 1	
6. Numbe	r of Credit Hours (Total) / Number of Units (Total)
	Credit Hours Units
Theore	etical 1 1 1
Total	1 1
	administrator's name (mention all, if more than one name)
Name:	
Email:	
8. Course	Objectives
Course Objectiv	es •
	•
	•
0 T 1:	11 ' 0, , '
	ng and Learning Strategies
Strategy	• Explanation of scientific subjects through theoretical lectures.
	• Training of students for practical applications in laboratories.
	Student prepare a scientific related reports.

10. Course Structure - Theoretical Subjects:								
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method			
				Theoretical lectures	Written Exam			

11.Course Evaluation				
	Course Exam	Final Exam	Sum	
Theoretical	40	60	100	
Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	Cui	urse Descrip	tion roim	
1. Cours	se Name:			
Anat	omy - 1			
	_			
2. Cours	se Code:			
VEA	2101			
2 0	, / 37			
	ester / Year:	1 87		
First	Semester / Secon	id Year		
4. Desci	ription Preparation	n Date:		
	/ 2023			
5. Avail	lable Attendance F	Forms:		
• T	heoretical lectures	S.		
• P	ractical work in la	iboratory.		
6 Nr. 1		(T) (1) (N)	1 CII . (T	7 (1)
6. Numl	ber of Credit Hour	\ /		otal)
		redit Hours	Units	<u> </u>
	oretical	2	2	
Prac		2	1	
Tota	<u> </u>	4	3	
7 Cours	se administrator's	name (mention	all if more tha	n one name)
Name		manie (mention	un, n more ma	ir one name)
Emai				
Ziiidi				
	se Objectives			
Course Object	tives •			
	•			
9. Teach	ning and Learning	Strategies		
Strategy	Explanation of	scientific subject	s through theoretic	
			l applications in la	boratories.
	Student prepare	e a scientific relat	ed reports.	

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Digestive System-General description		
2	2		Mouth cavity, Salivary glands		
3	2		Pharynx		
4	2		Muscles of mastication.		
5	2		Classification of stomach		
6	2		Parts of the intestine		
7	2		Liver and its ligaments		
8	2		Gallbladder and the variations in farm animals	Theoretical lectures	Written Exam
9	2		Pancreas and its variations		
10	2		Peritoneum its reflexation in the abdominal cavity		
11	2		Respiratory System-Introduction		
12	2		Nose, nasal cavity, nasopharynx		
13	2		Paranasal sinuses		
14	2		Larynx, Trachea		
15	2		Lungs, Thoracic cavity		

- P1	- Practical Subjects:					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method	
1	2		General description of the skull			
2	2		Cranial cavity, hyoid bone, mandible			
3-4	4		Skull comparative, Cervical vertebrae comparative			
5	2		Dissection of oral cavity with its contents			
6	2		Dissection of pharynx			
7	2		Viscera: esophagus. Stomach (comparative)			
8	2		Viscera: small and large intestine (comparative)	Practical work in	Practical	
9	2		Viscera: liver and its ligaments (comparative)	laboratory	Exam	
10-11	4		Dissection of paranasal sinuses, nasal cavity (comparative)			
12	2		Larynx, blood and nerve supply to the larynx			
13	2		Trachea, pleura, pulmonary ligament, lung comparative, trachea, bronchial tree.			
14-15	4		Dissection of thorax, thoracic fascia, muscles of thoracic wall			

11.Course Evaluatio	n			
	Course Exam	Final Exam	Sum	
Theoretical	27	40	67	
Practical	13	20	33	
Total	40	60	100	•

12.Learning and Teaching Resources			
Required textbooks (curricular books, if any)			
Main references (sources)			
Recommended books and references (scientific			
journals, reports)			
Electronic References, Websites			

	Course Description Form		
1. Course	Name:		
Animal	Nutrition - 1		
2. Course			
VEH21	.05		
3. Semeste	er / Vear·		
	emester / Second Year		
THE	omester / Second Tear		
4. Descrip	tion Preparation Date:		
1/9/	2023		
<i>7</i> 1.1	1 Au 1 E		
_	le Attendance Forms:		
	coretical lectures.		
• Pra	ctical work in laboratory.		
6. Number	r of Credit Hours (Total) / Number of Units (Total)		
O. TVOITES C.	Credit Hours Units		
Theore			
Practic			
Total	4 3		
	administrator's name (mention all, if more than one name)		
Name:			
Email:			
8 Course	Objectives		
Course Objective	, J		
Course Objective			
	•		
O T1:			
9. Teaching and Learning Strategies			
Strategy	 Explanation of scientific subjects through theoretical lectures. Training of students for practical applications in laboratories. 		
1			

- Theoretical Subjects:

Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1-2	4		Introduction and importance of		
1 2			nutrition of farm animals		
3-4	4		The animal and its food		
5	2		Water and its functions,		
)			regulation and comparative use		
6-7	4		Energy Metabolism		
8-9	4		Carbohydrate Metabolism	Theoretical	Written
10	2		Protein and nucleic acids	lectures	Exam
10	2		Metabolism		
11	2		Lipid metabolism		
12	2		Evaluation of proteins		
13	2		Expressing energy values of		
13			feeds		
14-15	4		Ration formulation		

- Fractical Subjects:					
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1-2	4		How to use nutrition laboratory		
3-4	4		What is the feedstuffs approximat analysis		
5-6	4		How to make the samples and prepare it to use	D (1	
7-8	4		Determination of moisture in feed suffs, green roughages, milk, meat	Practical work in laboratory	Practical Exam
9-10	4		Determination of ash		
11-12	4		Determination of silica		
13-14	4		How to make standard solution		
15	2		Determination of crude protein.		

11.Course Evaluation	n		
	Course Exam	Final Exam	Sum
Theoretical	27	40	67
Practical	13	20	33
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

Course Description Form				
1. Course Name:				
Biochemistry - 1				
*				
2. Course Code:				
VEP2104				
3. Semester / Year:				
First Semester / Second Year				
4. Description Preparation Date:				
1/9/2023				
5. Available Attendance Forms:				
Theoretical lectures.				
Practical work in laboratory.				
•				
6. Number of Credit Hours (Total) / Number of Units (Total)				
Credit Hours Units				
Theoretical 3				
Practical 2 1				
Total 5 4				
7. Course administrator's name (mention all, if more than one name)				
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Name: Email:				
Ellian.				
8. Course Objectives				
Course Objectives •				
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•				
9. Teaching and Learning Strategies				
Strategy • Explanation of scientific subjects through theoretical lectures.				
 Explanation of scientific subjects through theoretical rectures. Training of students for practical applications in laboratories. 				
 Student prepare a scientific related reports. 				

- Theoretical Subjects:

Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1	3		Cell Biochemistry		
2-4	9		Enzymes		
5-7	9		Vitamins	Theoretical	Written
8-9	6		Bioenergetic	lectures	Exam
10-12	9		Carbohydrate metabolism	lectures	Exam
13-15	9		Protein and Amino acids metabolism		

- Pi	- Practical Subjects:				
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2	4		General instruction and qualitative tests of carbohydrates		
3	2		Testing of unknown carbohydrates		
4	2		Glycogen		
5	2		General reactions of proteins		
6	2		Fibrous proteins		
7	2		Glyoproteins		
8	2		Albumin and globulins	D4:1	
9	2		Phosphoproteins	Practical	Practical
10	2		Enzymes: digested activity of salivary amylase	work in laboratory	Exam
11	2		Effect of (pH) on the activity of salivary amylase		
12	2		Effect of temperature on the activity of salivary amylase		
13	2		Urine analysis: physical properties of normal urine		
14	2		Normal constituents of urine		
15	2		Abnormal constituents of urine		

11.Course Evaluation	1		
	Course Exam	Final Exam	Sum
Theoretical	30	45	75
Practical	10	15	25
Total	40	60	100

12.Learning and Teaching Resources			
Required textbooks (curricular books, if any)			
Main references (sources)			
Recommended books and references (scientific			
journals, reports)			
Electronic References, Websites			

	Course Descript	ion Form	
1. Course Name:			
Histology - 1			
2. Course Code:			
VEA2102			
3. Semester / Year:			
First Semester / S	econd Year		
4. Description Prepar	ation Date:		
1 / 9 / 2023			
5. Available Attendar	nce Forms:		
Theoretical lec			
Practical work			
	in the crutery.		
6. Number of Credit		` /	
	Credit Hours	Units	
Theoretical	2	2	
Practical	3	1.5	
Total	5	3.5	
7. Course administrat	or's name (mention:	all, if more than one na	me)
Name:	(,	
Email:			
9 Course Objectives			
8. Course Objectives Course Objectives			
Course Objectives			
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0 Tagalina 11	min a Ctuat i		
9. Teaching and Lear	<u> </u>	thmorrow the comptined leastures	
		through theoretical lecture applications in laboratories	
	repare a scientific relate		•
	•	•	

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
	_	Outcomes		methou	method
1-2	4		Cytology		
3-4	4		Blood and Myeloid Tissue		
5-6	4		Nervous Tissue		
7-8	4		Cartilage and Bone	Theoretical	Written
9-10	4		Cardiovascular System	lectures	Exam
11-12	4		Lymphatic System		
13-14	4		Respiratory System		
15	2		Skin		

- P	racticai	Subjects:			
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3		Laboratory Guiding		
2	3		Cytology		
3	3		Epithelial Tissues		
4	3		Connective Tissues		
5	3		Muscular tissue		
6	3		Bone and Cartilages		
7	3		Nervous tissue	Practical	Due etical
8	3		Blood cells	work in	Practical Exam
9	3		Bone marrow	laboratory	Exam
10	3		Lymph system		
11	3		Cardiovascular system		
12	3		Respiratory system		
13	3		Skin		
14	3		Review		
15	3		Examination		

11.Course Evaluation	ı		
	Course Exam	Final Exam	Sum
Theoretical	23	34	57
Practical	17	26	43
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	C	ourse Descrip		
1. Cour	se Name:			
Phys	iology - 1			
2. Cour	se Code:			
VEP	2103			
	,			
	ester / Year:			
First	t Semester / Sec	ond Year		
4 Desc	ription Preparati	ion Date:		
	9 / 2023	ion Date.		
1//	7 2023			
5. Avai	lable Attendance	e Forms:		
• T	Theoretical lectur	res.		
• F	Practical work in	laboratory.		
6. Num	ber of Credit Ho	ours (Total) / Nu	mber of Units (Tot	al)
		Credit Hours	Units	
The	oretical	4	4	
Prac	etical	2	1	
Tota	al	6	5	
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		's name (mention	all, if more than	one name)
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Emai	d:			
8 Cour	se Objectives			
Course Object	<u> </u>			
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	hing and Learning		ta thuasach the counti1	1 octumes
Strategy			ts through theoretical applications in labo	
		pare a scientific rela		14101105.

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4		Introduction to physiology and cell membrane		
2	4		Nerve cell physiology		
3	4		Muscle cell physiology		
4	4		The autonomic nervous system physiology		
5-6	8		Blood composition and physiology	Theoretical lectures	Written Exam
7	4		Lymph composition and function	icetares	Lam
8	4		Cerebrospinal fluid composition and function		
9-10	8		Cardiovascular system physiology		
11-12	8		Respiration system physiology		
13-15	12		Digestive system physiology		

- 1 1	actical	Subjects:			
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1-2	4		Introduction, Frog sciatic nerve and		
1-2	7		gastrocnemius muscle preparation		
3	2		Simple muscle twitch and effect of		
			temperature on muscle contraction		
4	2		Effect of prolonged and strength		
-	_		stimulation on muscle contraction		
5	2		Effect of repeat stimulation on		
	_		muscle contraction		
6	2		Frog`s heart		
7	2		Extra systole and compensatory	Practical	
,			pause and Stannius ligatures	work in	Practical
8	2		Blood pressure in man and effect of	laboratory	Exam
	_		exercise	laboratory	
9	2		Venous flow, venous pressure,		
1.0	2		reactive hyperemia, cold pressor test		
10	2		RBC		
11	2		WBC		
12	2		Hb		
13	2		ESR		
14	2		PCV estimation		
15	2		Wintrobe erythrocyte index		

11.Course Evaluation	n		
	Course Exam	Final Exam	Sum
Theoretical	32	48	80
Practical	8	12	20
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

Course Description Form
1. Course Name:
Genetics
2. Course Code:
VEH2106
2 0 1 /37
3. Semester / Year:
First Semester / Second Year
4. Description Preparation Date:
1 / 9 / 2023
1/ // 2023
5. Available Attendance Forms:
Theoretical lectures.
6. Number of Credit Hours (Total) / Number of Units (Total)
Credit Hours Units
Theoretical 2 2
Total 2 2
7. Course administrator's name (mention all, if more than one name)
Name:
Email:
9 Course Objectives
8. Course Objectives Course Objectives •
•
•
9. Teaching and Learning Strategies
• Explanation of scientific subjects through theoretical lectures.
Student prepare a scientific related reports.

- Theoretical Subjects:

		Degrined Learning	IInit on subject name	Lagunina	Evaluation
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1	2		Development of Genetics and its		
1	2		theories		
2-3	4		Cell and chromosome		
2-3	4		behaviors		
4	2		Mundelein Laws and its		
4	Z		modification		
5-6	4		Genetics and statistics in the		
3-0	4		analysis of genealogy		
7	2		The interaction between genes	701 41 1	337 '44
9.0	4		Multiple alleles and alleles	Theoretical	Written
8-9	4		false	lectures	Exam
10	2		Assigned sex and genetics		
10			associated with it		
11-12	4		Link, transit and genetic maps		
13	2		Chromosomal mutations		
1.4	2		Chemical basis and		
14	2		engineering of heredity		
15	2		Quantitative genetics and		
13			animal improvement		

11.Course Evaluation				
	Course Exam	Final Exam	Sum	
Theoretical	40	60	100	
Total	40	60	100	

12.Learning and Teaching Resources				
Required textbooks (curricular books, if any)				
Main references (sources)				
Recommended books and references (scientific				
journals, reports)				
Electronic References, Websites				

	Course Description Form				
1. Cour	rse Name:				
Anat	tomy - 2				
2. Cour	rse Code:				
VEA	A2107				
2 0	. / \$7				
	ester / Year:				
Seco	ond Semester / Second Year				
4. Desc	ription Preparation Date:				
	9 / 2023				
5. Avai	lable Attendance Forms:				
• T	Theoretical lectures.				
• F	Practical work in laboratory.				
6. Num	ber of Credit Hours (Total) / Number of Units (Total)				
	Credit Hours Units				
	oretical 2 2				
<u>Prac</u>	etical 2 1				
Tota	al 4 3				
7 Cour	as a desinistratoria nama (mantian all if mana than ana nama)				
7. Cour Nam	rse administrator's name (mention all, if more than one name)				
Emai					
Ellia	II.				
8. Cour	rse Objectives				
Course Objec					
	•				
	•				
9. Teaching and Learning Strategies					
Strategy	Explanation of scientific subjects through theoretical lectures.				
~ · · · · · · · · · · · · · · · · · · ·	 Training of students for practical applications in laboratories. 				
	Student prepare a scientific related reports.				

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Lymphatic System: Introduction	111001100	1110011001
2	2		Lymph vascular system. lymphatic tissue		
3	2		Lymph vessels, lymph capillaries		
4	2		Lymphatic tissue structures, solitary lymph nodules		
5	2		Tonsils, lymph nodes, lymph center		
6	2		Lymph trunks and ducts, thymus, spleen	Theoretical lectures	Written Exam
7-8	4		Nervous System	10000102	2.1
9-10	4		Development of the brain		
11	2		Central nervous system		
12	2		Autonomic nervous system		
13	2		Cardio Vascular System		
14	2		Heart and pericardium		
15	2		Blood supply of the limb		

- P1	- Practical Subjects:				
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1	2		Superficial dissection of face region		
2	2		Deep dissection of face region		
3	2		The brain, cranial and spinal		
3	2		meninges		
4-5	4		Dissection of neck region		
6	2		Nerves in thoracic cavity	Practical	
7	2		Pericardium, cranial and caudal	work in	Practical
,	2		venae cavae	laboratory	Exam
8-9	4		Circulatory system	laboratory	
10-11	4		Aortic arch, common		
10-11	7		brachiocephalic		
12-13	4		Lymph centers in abdominal cavity,		
12-13			spleen4		
14-15	4		Abdominal aorta with its branches		

11.Course Evaluation	1			
	Course Exam	Final Exam	Sum	
Theoretical	27	40	67	
Practical	13	20	33	
Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	Course Description Form
1. Cours	se Name:
Anim	al Nutrition - 2
2. Cours	se Code:
VEH	2111
2 Sama	ster / Year:
•	nd Semester / Second Year
Seco	id Semester / Second Tear
4. Desci	ription Preparation Date:
	/ 2023
	able Attendance Forms:
• T	heoretical lectures.
• P	ractical work in laboratory.
6 Numl	age of Credit Hours (Total) / Number of Units (Total)
O. Nulli	ber of Credit Hours (Total) / Number of Units (Total) Credit Hours Units
The	oretical 2 2
Prac	
Tota	
100	
7. Cours	se administrator's name (mention all, if more than one name)
Name	
Emai	l:
0 0	
8. Course Object	se Objectives
Course Object	ives •
	•
	ning and Learning Strategies
Strategy	• Explanation of scientific subjects through theoretical lectures.
	 Training of students for practical applications in laboratories. Student prepare a scientific related reports.
L	~ propure a seremine remies reports.

- Theoretical Subjects:

Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes	,	method	method
1	2		The importance of minerals in		
1	2		animal nutrition		
2	2		Functions of essential		
2	2		elements		
3	2		Calcium and phosphorus		
4	2		Magnesium and sulfur		
5	2		Iron and cobalt		
6	2		Copper and Iodine		
7	2		Selenium and zinc		
8	2		Importance of vitamins in		
O	4		animal nutrition	Theoretical	Written
9	2		Classifications and	lectures	Exam
,	2		characteristics of vitamins		
10	2		Fat soluble vitamins A and D		
11	2		Fat soluble vitamins		
11	2		E and K		
12	2		Water soluble vitamins		
12	2		B1,B2, B3		
13	2		Water soluble vitamins		
13			B6,B12		
14	2		Direct Digestion trial		
15	2		Indirect digestion trial		

- 1 1	- 1 lactical Subjects.					
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation	
		Outcomes		method	method	
1-2	4		Determination of ether extract			
3-4	4		Determination N.F.E by chemical method and calculated method			
5-6	4		Determination of crude fiber			
7-8	4		Determination of gross energy by chemical method	Practical work in	Practical	
9-10	4		Determination of gross energy by calculated method	laboratory	Exam	
11-12	4		Determination of gross energy by bomb calorimeter			
13-15	6		The digestion trials: How to make standard ration for farm animals			

11.Course Evaluation	n		
	Course Exam	Final Exam	Sum
Theoretical	27	40	67
Practical	13	20	33
Total	40	60	100

12.Learning and Teaching Resources				
Required textbooks (curricular books, if any)				
Main references (sources)				
Recommended books and references (scientific				
journals, reports)				
Electronic References, Websites				

	Course Descript	ion Form	
1. Course Name:			
Biochemistry - 2			
2. Course Code:			
VEP2110			
2 C / X			
3. Semester / Year:	/ C 1 X		
Second Semester	Second Year		
4. Description Prepara	ation Date:		
1 / 9 / 2023			
5. Available Attendar	ice Forms:		
• Theoretical lec	tures.		
 Practical work 	in laboratory.		
	•		
6. Number of Credit I	, ,	` ` `	
	Credit Hours	Units	
Theoretical	3	3	
Practical	2	1	
Total	5	4	
		11 '0 .1	
	or's name (mention a	all, if more than one na	me)
Name:			
Email:			
8. Course Objectives			
Course Objectives •			
course objectives			
•			
9. Teaching and Learn			
_	· ·	through theoretical lecture	
		applications in laboratories	S.
• Student pr	repare a scientific relate	eu reports.	

- Theoretical Subjects:

Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1-2	6		Plasma proteins 6		
3-6	12		Lipid metabolism 12		
7-8	6		Nucleotids and nucleic acids 7	Theoretical	Written
9-10	6		Protein synthesis 6	lectures	Exam
11-14	12		Hormones 10		
15	3		Free radical and antioxidants 4		

- Pi	ractical	Subjects:			
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1	2		Photometric Analysis of		
1			Biochemical Molecules		
2	2		Photometric Analysis of		
			Biochemical Molecules		
3	2		Determination of Serum Total Protein		
4	2		Determination of Serum Total		
4			Protein Using Standard Curve		
5	2		Determination of Serum Inorganic		
3			Phosphate		
6	2		Determination of Serum Calcium		
7	2		Determination of Serum Total	D4:1	
/	2		Cholesterol	Practical	Practical
8	2		Determination of Serum Total	work in	Exam
0	2		Lipids	laboratory	Lam
9	2		Determination of Serum Creatinine		
10	2		Determination of Serum Uric Acid		
11	2		Determination of Serum Bilirubin		
12	2		Enzymatic Method for		
12	2		Determination of Glucose		
13	2		Determination of Serum Amylase		
13			Activity		
14	2		Determination of Serum urea		
15	2		Determination of serum		
13			transaminase		

11.Course Evaluation				
	Course Exam	Final Exam	Sum	
Theoretical	30	45	75	
Practical	10	15	25	
Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

Cou	ırse Descrip	otion Form	
1. Course Name:			
Histology - 2			
C) V			
2. Course Code:			
VEA2108			
2 0 / V			
3. Semester / Year:	1 87		
Second Semester / Sec	ond Year		
4. Description Preparation	Date:		
1 / 9 / 2023			
5. Available Attendance F	orms:		
 Theoretical lectures 	•		
 Practical work in la 	boratory.		
			•
6. Number of Credit Hour	· /	,	tal)
	redit Hours	Units	_
Theoretical	2	2	
Practical	3	1.5	_
Total	5	3.5	
7. G	(:	11 '.C 41	
7. Course administrator's 1	iame (mentior	1 an, 11 more than	one name)
Name:			
Email:			
8. Course Objectives			
Course Objectives •			
•			
•			
9. Teaching and Learning	Strategies		
		ts through theoretical	lactures
*		al applications in labo	
	a scientific rela		
•		-	

- Theoretical Subjects:

Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1-3	6		Digestive System		
4-6	6		Urinary System		
7-8	4		Endocrine System	Theoretical	Written
9-11	6		Male Reproductive System	lectures	Exam
12-14	6		Female Reproductive System		
15	2		Sensory Organs		

- 1 1	- Fractical Subjects:				
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3		Tongue structure, lingual papillae		
2	3		Salivary glands		
3	3		Fundic gland region of stomach rumen, reticulum, omasum		
4	3		Small intestine		
5	3		Liver, gallbladder, pancreas		
6-7	6		Endocrine glands	Practical	D 4: 1
8-9	6		Adrenal gland, hyroid gland, parathyroid gland	work in laboratory	Practical Exam
10	3		Urinary system	lacoratory	
11	3		Male genital system		
12	3		Female genital system		
13	3		Eye: cornea, retina	1	
14	3		Ear: cochlea, corti organ	1	
15	3		Mammary gland	1	

11.Course Evaluation	n		
	Course Exam	Final Exam	Sum
Theoretical	23	34	57
Practical	17	26	43
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	Course Descri	ption Form	
1. Course Name:			
Physiology - 2			
V OV			
2. Course Code:			
VEP2109			
3. Semester / Year:			
Second Semeste	er / Second Year		
4. Description Prep	aration Date:		
1 / 9 / 2023	aration Date.		
17972025			
5. Available Attend	lance Forms:		
Theoretical 1	ectures.		
Practical work	rk in laboratory.		
	•		
6. Number of Credi	t Hours (Total) / Nu	umber of Units (To	otal)
	Credit Hours	Units	<u></u>
Theoretical	4	4	
Practical	2	1	
Total	6	5	
		11 10 1	
7. Course administr	ator's name (mention	on all, if more than	one name)
Name:			
Email:			
8. Course Objective	20		
Course Objectives •	28		
• •			
•			
9. Teaching and Le			
	ation of scientific subje		
	g of students for praction of students for practic relations of the students o		oratories.
• Student	prepare a scientific rei	aicu reports.	

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-3	12		Kidney and Urinary System		
4-7	16		Endocrine System	TC1 4' 1	337 :44
8-10	12		Male Reproductive System	Theoretical	Written Exam
11-13	12		Female Reproductive System	lectures	Exam
14-15	8		Central Nervous System		

- Fractical Subjects:					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Blood groups and coagulation time.		
2	2		Measurements of respiratory volume-spirometry		
3	2		Measurement of pulmonary ventilation and respiratory movements		
4	2		Salivary digestion		ļ
5	2		Nervous system		
6	2		Eye reflexes	Practical	Dunation
7	2		Response time	work in	Practical Exam
8	2		Sensory physiology	laboratory	Exam
9	2		Taste		
10	2		Vision		
11	2		Hearing		
12	2		Estrous cycle in rat		
13	2		Evaluation of seminal quality		
14	2		Concentration of spermatozoa		
15	2		Ovariectomy in rat		

11.Course Evaluation	1			
	Course Exam	Final Exam	Sum	
Theoretical	32	48	80	
Practical	8	12	20	
Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

1. Cours	se Name:						
Statis	stics						
	2. Course Code:						
VEH	12113						
3 Seme	ester / Year:						
	nd Semester / Seco	ond Vear					
Seco	na Semester / See	ond I car					
4. Desci	ription Preparation	Date:					
	0 / 2023						
	lable Attendance Fo						
• T	Theoretical lectures.						
• P	ractical work in lab	oratory.					
6 Niveral	han af Cuadit Hayne	(Tatal) / Namela	on of Haits (Total)				
O. INUIII	ber of Credit Hours		,				
		edit Hours	Units				
	oretical	2	2				
-	etical	<u>2</u> 4	3				
Tota	41	4	3				
7. Cours	se administrator's n	ame (mention al	Il, if more than one name)				
Name			,				
Emai	1:						
	se Objectives						
Course Object	tives •						
	•						
9. Teacl	9. Teaching and Learning Strategies						
Strategy			hrough theoretical lectures.				
	 Training of students for practical applications in laboratories. 						
	Student prepare	a scientific related	reports.				

- Theoretical Subjects:

Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1-2	4		Definition statistics and statistical symbols		
3	2		Descriptive study of the data		
4	2		Mediate measures (concentration)		
5	2		Dispersion and differences measurements		
6	2		Simple regression and correlation		
7-8	4		Principles of probability	Theoretical	Written
9	2		Discrete probability distributions	lectures	Exam
10-11	4		Continuous probability distributions		
12	2		Hypotheses Testes		
13	2		Z test		
14	2		t test		
15	2		X2 test		

- PI	- Practical Subjects:					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method	
1-2	4		Definition statistics and statistical symbols			
3	2		Descriptive study of the data			
4	2		Mediate measures (concentration)			
5	2		Dispersion and differences measurements			
6	2		Simple regression and correlation	Practical	Practical	
7-8	4		Principles of probability	work in	Exam	
9	2		Discrete probability distributions	laboratory	LAdili	
10-11	4		Continuous probability distributions			
12	2		Hypotheses Testes			
13	2		Z test			
14	2		t test			
15	2		X2 test			

11.Course Evaluation	n		
	Course Exam	Final Exam	Sum
Theoretical	27	40	67
Practical	13	20	33
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	•	Course Descrip	JUOH FOR	111	
1. Cour	se Name:				
Emb	ryology				
2. Cour	rse Code:				
VEA	2112				
_	ester / Year:				
Seco	nd Semester /	Second Year			
4 5	· B	·			
	ription Prepara	tion Date:			
1/9	9 / 2023				
5 Avoi	lable Attendance	as Forms			
• 1	Theoretical lect	ures.			
6 Num	ber of Credit H	lours (Total) / Nu	mber of Ur	nits (Total)	
0. 1.0.11	001 01 01001011	Credit Hours		nits	
The	oretical	2	2		
Tota		2	2		
100	ai				
7. Cour	se administrato	or's name (mention	n all, if mo	re than one name)
Name					<i></i>
Emai	il:				
Lina					
8. Cour	rse Objectives				
Course Objec	etives •				
	•				
	•				
0 Taga	hing and Learn	ing Stratogies			
			ota themassale the	agentical lastumas	
Strategy		n of scientific subject epare a scientific rela		icoretical lectures.	
	- Student pre	pare a scientific fela	ica reports.		

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Outcomes	Introduction to embryology	methou	methou
1	1		, .,		
2	l		phase of Fertilization		
3	1		phase of cleavage, Implantation		
			process		
4	1		Formation of fatal membranes		
5	1		Phase of Gastrulation and		
3	1		notochord formation		
6	1		Mesoderm differentiation and		
0	1		neurulation process		
7	1		Development of cardiovascular	7771 .: 1	XX7 ***
/	1		system	Theoretical	Written
8	1		Development of nervous system	lectures	Exam
9	1		Development of brachial arches		
9	1		and pharyngeal pouches		
10	1		Development of digestive system		
11	1		Development of urinary system		
12	1		Development of genital system		
12	1		Development of respiratory		
13	1		system		
14	1		Development of skeletal system		
15	1		Development of lymphatic system		

11.Cc	ourse Evaluation				
_		Course Exam	Final Exam	Sum	
	Theoretical	40	60	100	
	Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

Course Description Form					
1. Course Name:					
General Microb	iology				
2. Course Code:					
VEM3104					
3. Semester / Year:					
First Semester /	Third Year				
4. Description Prepare	aration Date:				
1 / 9 / 2023					
5. Available Attend	ance Forms:				
Theoretical le	ectures.				
Practical wor	k in laboratory.				
6 Number of Cradi	t Hours (Total) / Num	mbor of Units (Total)			
o. Number of Credi	Credit Hours	mber of Units (Total) Units			
Theoretical	3	3			
Practical	<i>3</i>	3 1			
Total	5	4			
Total		-			
7. Course administr	ator's name (mention	n all, if more than one name)			
Name:					
Email:					
	_				
8. Course Objective	:S				
Course Objectives •					
•					
•					
9. Teaching and Lea	arning Strategies				
		ts through theoretical lectures.			
	3	al applications in laboratories.			
	prepare a scientific relate				

- Theoretical Subjects:

Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1	3		Introduction and History of		
1	3		Microbiology		
2	3		Bacterial Cell Structure		
3-4	6		Bacterial Classification		
5	3		Bacterial Nutrition and Growth		
6	3		Sterilization and Disinfection	Theoretical	Written
7.0	6		Antibiotics and		
7-8	U		Chemotherapeutic Agents	lectures	Exam
9	3		Bacterial Genetics		
10	3		Bacterial Virulence		
11	3		Normal Flora and Probiotics		
12-13	6		Rickettsia and Chlamydia		
14-15	6		Mycoplasma		
		~ * * .			

- Practical Subjects:					
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1	2		General Laboratory Instructions		
2	2		Microscopes		
3	2		Sterilization and Disinfection		
4	2		Culture Media for Bacterial		
4	2		Growth		
5	2		Bacterial Nutrition and Growth		
6	2		Colony Morphology	Practical	D .: 1
7	2		Pure Culture Techniques	work in	Practical
8	2		Bacterial Motility	laboratory	Exam
9	2		Bacterial Morphology		
10	2		Bacterial Staining Techniques		
11	2		Bacterial Count		
12	2		Antibiotics Tests		
13	2		Biochemical Tests		
14-15	4		Mycology		

11.0	Course Evaluation	1			
		Course Exam	Final Exam	Sum	
	Theoretical	30	45	75	
	Practical	10	15	25	
	Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	C	Course Descript	tion Form	
1. Course	e Name:			
Gener	ral Pathology			
2. Course	e Code:			
VED3	3100			
2 Samas	ster / Year:			
	Semester / Thi	nd Voor		
FIRSUS	Semester / 1 m	iru Year		
4. Descri	iption Preparati	ion Date:		
	/ 2023			
5. Availa	able Attendance	e Forms:		
• Th	neoretical lectu	res.		
• Pra	actical work in	laboratory.		
		•		
6. Numb	er of Credit Ho	ours (Total) / Num	ber of Units (Total)	
		Credit Hours	Units	
Theor	retical	3	3	
Practi	ical	3	1.5	
Total	<u>l</u>	6	4.5	
7 C	1		11 ' C	
		's name (mention	all, if more than one na	ame)
Name:	-			
Email:	:			
	_	_		
8 Course	e Objectives			
Course Objection				
	•			
	•			
0 75 13	. 17	G		
	ing and Learning		1 1 1 2 11 4	
Strategy	 Explanation of scientific subjects through theoretical lectures. Training of students for practical applications in laboratories. 			
		students for practical pare a scientific relate		75.
	- Student prep	are a seremente relate	атеропы.	

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3		Introduction		
2	3		Degenerative changes and Necrosis		
3	3		Acute Cellular Degeneration		
4	3		Gout Degeneration and Gangrenous necrosis		
5	3		Disturbance of Pigmentation	Theoretical	Written
6	3		Disturbance of growth	lectures	Exam
7-8	6		Disturbance of Circulation		
9-10	6		Inflammation		
11	3		Healing and repair		
12-13	6		Inmmunopathology		
14-15	6		Tumors		

- Pi	- Practical Subjects:				
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2	6		Solutions and fluids used in fixation and preservation of tissue samples used as preservative samples		
3-4	6		Methods of processing and preparation of tissue for microscopically examination		
5-6	6		Methods of embedding and preparation of tissue blocks	Practical	
7-8	6		Methods of cryostat for frozen sections	work in	Practical Exam
9-10	6		Methods of reaction and special tissue stains	laboratory	
11-12	6		Frozen section microtome for pathological detection of fat and enzymes		
13-15	9		Practical training in examination and diagnosis of many pathological conditions as histological section		

11.Course Evaluation	1		
	Course Exam	Final Exam	Sum
Theoretical	27	40	67
Practical	13	20	33
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	C	ourse Descrip	CIOII I OI III	
1. Cour	se Name:			
Helm	ninthology			
	<u></u>			
2. Cour	se Code:			
VEN	13102			
	ester / Year:			
First	Semester / Thi	rd Year		
4 Desc	ription Preparati	on Date:		
	0 / 2023	on Dute.		
179	7 2025			
5. Avail	lable Attendance	Forms:		
• T	heoretical lectur	es.		
• P	ractical work in	laboratory.		
6. Num	ber of Credit Ho	urs (Total) / Nur	mber of Units (To	otal)
		Credit Hours	Units	
The	oretical	3	3	
Prac	tical	2	1	
Tota	al	5	4	
7 0	1		11 ' C 41	`
		s name (mention	i all, if more than	n one name)
Name				
Emai	1:			
8. Cour	se Objectives			
Course Objec	<u> </u>			
3	•			
	•			
0 Tagal	hing and Learnir	na Stratagias		
Strategy		of scientific subject	s through theoretic	al lectures
Strategy		tudents for practica		
		are a scientific relat		
	•			

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3		Introduction & Definitions of Terms Effects of parasites on their hosts		
2	3		Transmission of parasite		
3-4	6		Nemathelminthes /Families: Ascardidae Oxyuridae,		
5-6	6		Hetrakidae Subuluridae, Rhabditidae Strongyloididae,		
7-8	6		Ancylostomatidae, Trichostrongylidae Dictyocaulidae	Theoretical	Written
9-10	6		Metastrongyloidae Spiruridae, Fillariidae, Trichinellidae	lectures	Exam
11-12	6		Phylum: Trematoda / Families: Fasciolidae, Dicrocoelidae,		
13-14	6		Phylum: Platyhelminthes / Families: Taeniidae,		
15	3		Davaineidae, Dipylidiidae, Hymenolepididae, Mesocestoidae,		

- 1 1	- Tractical Subjects.				
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1	2		Laboratory diagnosis of parasitism		
2	2		Parascaris equorum, Toxocara canis,		
3	2		Strongylidae copulatory bursa, Strongylus vulgaris		
4-5	4		Haemonchus contortus, Ostertagia, Dictyocalus filarial		
6	2		Habronema, Thelazia, Setaria	Practical	
7	2		Fasciola hepatica, Fasciola gigantica	work in	Practical
8	2		Dicrocoelium dendriticum	laboratory	Exam
9	2		Schistoma	,	
10	2		Moniezia expansa		
11-12	4		Raillietina		
13-14	4		Taenia spp		
15	2		Echinococcus granulosus, protoscolex of Hydatid cyst		

11.Course Evaluation	n		
	Course Exam	Final Exam	Sum
Theoretical	30	45	75
Practical	10	15	25
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	r
1. Cours	e Name:
Immu	nology
2. Cours	
VEM	3115
3. Semes	ster / Year:
First	Semester / Third Year
1 Dagam	inting Dunamation Data.
	iption Preparation Date:
1/9	/ 2023
5. Availa	able Attendance Forms:
• Tl	neoretical lectures.
• Pr	actical work in laboratory.
6. Numb	er of Credit Hours (Total) / Number of Units (Total)
	Credit Hours Units
	retical 2 2
Pract	
Tota	1 4 3
7. Cours	e administrator's name (mention all, if more than one name)
Name	· · · · · · · · · · · · · · · · · · ·
Email	:
0. 6	
	e Objectives
Course Objecti	ves
	•
0 T 1	· 11 · G ·
	ing and Learning Strategies
Strategy	 Explanation of scientific subjects through theoretical lectures. Training of students for practical applications in laboratories.
	 Student prepare a scientific related reports.

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Principle of immunity and immune response (specific and nonspecific)		
2-3	4		Immunoglobulin: Structure, variation, Function and synthesis		
4-5	4		Immunology of T and B cells		
6	2		Complement: Nature, Function and pathways		
7	2		Cell mediated immunity, antigen recognition by T cells	Theoretical	Written
8	2		Immunological tolerance	lectures	Exam
9-10	4		Hypersensitivity, Mechanisms		
11	2		Auto-immunity		
12	2		Transplantation		
13	2		Principle of immune genetics		
14	2		Immunoanaphylaxis reaction		
15	2		Immunity of infection		

- P1	- Practical Subjects:				
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Introduction to immunology labs		
2	2		Lab animals]	
3-4	4		Preservation of antigens and antibodies		
5	2		Separation of immunoglobulin		
6	2		Complement test	D .: 1	
7	2		Precipitation test	Practical	Practical
8	2		Agglutination test	work in	Exam
9	2		Neutralization test	laboratory	
10-11	4		Separation of lymphocytes from blood and lymph nodes		
12-13	4		Preparation of antigens]	
14	2		Leukocytes	1	
15	2		Phagocytosis		

11.Course Evaluatio	n		
	Course Exam	Final Exam	Sum
Theoretical	27	40	67
Practical	13	20	33
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	Course Description Form
1. Cours	se Name:
Phar	macology - 1
	ΟV
2. Cours	se Code:
VEP	3101
	ster / Year:
First	Semester / Third Year
1 Descri	ription Preparation Date:
	7/2023
1/9	1 2023
5. Avail	able Attendance Forms:
• T	heoretical lectures.
	ractical work in laboratory.
- 1	inchesi work in incoratory.
6. Numl	ber of Credit Hours (Total) / Number of Units (Total)
	Credit Hours Units
Theo	pretical 3
Prac	tical 2 1
Tota	<u>5</u> 4
7. Cours	se administrator's name (mention all, if more than one name)
Name	: :
Emai	1:
	se Objectives
Course Object	tives •
	•
	1 ~
9. Teach	ning and Learning Strategies
Strategy	Explanation of scientific subjects through theoretical lectures.
	Training of students for practical applications in laboratories.
	Student prepare a scientific related reports.

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3		Introduction to the		
1	3		Pharmacology		
2	3		Drug kinetic		
3-4	6		Drug dynamic		
5	3		Drug metabolism	Theoretical	Written
6-8	9		Mechanism of action of drug	lectures	Exam
9-10	6		Side effects of drug		
11-12	6		Autonomic nervous system		
11-12	U		drugs		
13-15	9		Central nervous system drugs		

- Pı	ractical	Subjects:			
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1	2		General principles and definition		
2	2		Drug form		
3	2		Metrology		
4-5	4		Dose calculation and dilution		
6	2		Lab animal technique,		
			handling		
7	2		Effect of ionization on	Practical	
			absorption	work in	Practical
8	2		Analysis of alanine	laboratory	Exam
9	2		Effect of rout of administration	laboratory	
10	2		Effect of autonomic drugs on		
10	2		isolated rabbit duodenum		
11-12	4		Effect of drugs on eye		
			Effect of autonomic drug &		
13-14	4		hormones on isolated uterus		
			from animals		
15	2		Diuretics		

11.Course Evaluation	ı			
	Course Exam	Final Exam	Sum	
Theoretical	30	45	75	
Practical	10	15	25	
Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

Course Description Form
1. Course Name:
Toxicology
CN C
2. Course Code:
VEH3116
3. Semester / Year:
First Semester / Third Year
4. Description Preparation Date:
1 / 9 / 2023
1/9/2023
5. Available Attendance Forms:
Theoretical lectures.
6. Number of Credit Hours (Total) / Number of Units (Total)
Credit Hours Units
Theoretical 2 2
Total 2 2
7. Course administrator's name (mention all, if more than one name)
Name:
Email:
8. Course Objectives
Course Objectives •
9. Teaching and Learning Strategies
Strategy • Explanation of scientific subjects through theoretical lectures.
Student prepare a scientific related reports.

- Theoretical Subjects:

Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
,, 5511	110415	Outcomes	one or subject name	method	method
1	2		Concepts and terminology of		
			toxicology		
2	2		Toxicokinetics		
2	2		Antidotes and general treatment of	1	
3	2		poisoning		
4	2		Diagnostic aspects of toxicology		
5-6	4		Insecticides		
7	2		Herbicides		
8	2		Toxic metals	Theoretical	Written
9	2		Mycotoxins	lectures	Exam
10	2		Feed-associated toxicants		
11	2		House-hold & industrial products		
12	2		Toxic plants		
13	2		Bio toxins		
14	2		Environmental pollution with		
17			toxicants		
15	2		Pharmaceuticals poisoning		

11.Course Evalua	tion			
	Course Exam	Final Exam	Sum	
Theoretical	40	60	100	
Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	Course Descript	tion Form	
1. Course Name:			
Protozoa and Ai	thropoda		
	•		
2. Course Code:			
VEM3122			
3. Semester / Year:			
Second Semeste	r / Third Year		
4. Description Prepare	aration Date:		
1 / 9 / 2023			
5. Available Attend	ance Forms:		
Theoretical leg	ectures.		
Practical wor	k in laboratory.		
	•		
6. Number of Credi	t Hours (Total) / Num	` ` `	
	Credit Hours	Units	
Theoretical	3	3	
Practical	<u>2</u>	<u> </u>	
Total	5	4	
7. Course administr	ator's name (mention	all, if more than one nan	ne)
Name:			
Email:			
8. Course Objective			
Course Objectives •	8		
•			
•			
0 Tagalii	omin a Ctuat :		
9. Teaching and Lea		s through theoretical lectures.	
	3	s inrough theoretical lectures. l applications in laboratories.	
	prepare a scientific relate		
<u>'</u>	•	•	

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2	6		Phylum: Sarcomastigophora		
3-4	6		Families: Trypanosomatidae, Trichomonadae,		
5-6	6		Plasmodiidae, Babesiidae,		
7-8	6		Theileriidae , Monocercomonadidae,		
9	3		Eimeriidae, Sarcocystidae, Cryptosporidiidae.	T1	W 7
10	3		Phylum: Arthropoda	Theoretical	Written
11	3		Families: Ioxdidae, Argasidae, Sarcoptidae, Psoroptidae,	lectures	Exam
12	3		Tabanidae, Culicidae, Psychodidae		
13	3		Simuliidae, Oestridae, Calliphoridae		
14	3		Anthomyidae, Cimicidae, Haematopinidae		
15	3		Linognathidae, Superfamilies, Ischnocera, Amblycera		

- PI	- Practical Subjects:				
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1-2	4		Trypanosoma brucei, T.equiperdium, T.evansi, T.cruzi, Leishmania (Amastigete), Trichomonas vaginalis, Entamoeba histolytica(trophozoite)		
3-4	4		Eimeria (life cycle), Sarcocystis, Toxoplasma gondii, Cryptosporidiun		
5-6	4		Plasmodium gallinaceum, Babesia canis, B. motasi		
7-8	4		Theileria, Anaplasma, Hard ticks, Hyalomma, Rhipicephalus, Boophilus, larva, Soft tick	Practical	Practical
9-10	4		Demodex folliculorum, Dermanyssus gallinae, Psorptes, Sarcoptes	work in laboratory	Exam
11-12	4		Menacanthus straminus, Haematopinus suis, Ctenocephalides canis, Xenopsylla cheopis, Cimex lectularis		
13-14	4		Anopheles, Culex, (male + female) pupa and larva, Simulium adult and Larva		
15	2		Oesteridae, Oestrus ovis, Hypoderma bovis, Gastrophilus intestinalis		

11.Course Evaluation	n		
	Course Exam	Final Exam	Sum
Theoretical	30	45	75
Practical	10	15	25
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	Course Descript	tion Form	
1. Course Name:			
Special Microbiolo	ogy		
•	- GV		
2. Course Code:			
VEM3124			
2 0 /37			
3. Semester / Year:	/ FEN. 1. X.Y.		
Second Semester /	Third Year		
4. Description Prepara	ation Date:		
1 / 9 / 2023			
5. Available Attendan	ice Forms:		
Theoretical lect	tures.		
Practical work	in laboratory.		
6. Number of Credit I	`	, , ,	
	Credit Hours	Units	
Theoretical	3	3	
Practical	2	1	
Total	5	4	
7 Course administrat	or's name (mention	n all, if more than one name)	
Name:	of s fiame (mention	an, if more than one name)	
Email:			
Linan.			
8. Course Objectives			
Course Objectives •			
•			
•			
9. Teaching and Learn	ning Strategies		
		ts through theoretical lectures.	
_		al applications in laboratories.	
	epare a scientific relate		

- Theoretical Subjects:

Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1	3		Staphylococcus		
2	3		Streptococcus		
3	3		Corynebacterium, Listeria		
4	3		Bacillus		
5-6	6		Clostridium		
7	3		Actinomyces and Nocardia		
8	3		Actionbacillus, Pasteurella	Theoretical	Written
9	3		Haemophillus, Moraxella and bordetlla	lectures	Exam
10	3		Pseudomonas (Burkholderia)		
11	3		Leptospira, Campylobacter		
12	3		Brucella		
13-14	6		Spharophorus, Enterbacteriacae		
15	3		Mycobacterium		

- Tractical Subjects.					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Staphylococcus		
2	2		Streptococcus		
3-4	4		Corynebacterium]	
5	2		Rhodococcus, Listeria]	
6	2		Bacillus]	
7-8	4		Clostridium and Anaerobic	Practical	Practical
7-0	7		Condition	work in	
9	2		Mycobacterium	laboratory	Exam
10	2		Pasteurella		
11	2		Pseudomonas (Burkholderia)]	
12	2		Leptospira]	
13	2		Brucella	1	
14-15	4		Enterbacteriacae		

11.Course Evaluation	n			
	Course Exam	Final Exam	Sum	
Theoretical	30	45	75	
Practical	10	15	25	
Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	(Course Descrip	otion Form	
1. Cours	se Name:			
Syste	mic Pathology			
2. Cours	se Code:			
VED	3120			
2 Sama	ester / Year:			
		Third Voor		
Secol	nd Semester / T	inira year		
4 Descr	ription Preparat	ion Date:		
	/ 2023	aon Bute.		
117	7 2023			
5. Avail	lable Attendanc	e Forms:		
• T	heoretical lectu	ires.		
• P	ractical work in	ı laboratory.		
6. Numb	ber of Credit Ho	ours (Total) / Nur	mber of Units (Total)	
		Credit Hours	Units	
Theo	oretical	3	3	
Prac	tical	3	1.5	
Tota	al	6	4.5	
		r's name (mentior	n all, if more than one nar	ne)
Name				
Email	1:			
9 C	Ol-:4:			
8. Course Object	se Objectives			
Course Object	ilves			
	•			
9. Teach	ning and Learni			
Strategy	<u> </u>	3	ts through theoretical lectures	
	•		al applications in laboratories.	
	 Student prer 	pare a scientific relat	ted reports.	

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2	6		Diseases of Respiratory system/ Upper respiratory tract/ Lung/ Pleura		
3-4	6		Diseases of Cardiovascular system		
5	3		Diseases of haemopoetic and lymphatic tissues		
6-8	9		Diseases of digestive system		
9	3		Disease of urinary system	Theoretical	Written
10	3		Disease of Male and Female genital system	lectures	Exam
11	3		Diseases of Muscol- Skeletal system		
12	3		Diseases of Nervous system		
13	3		Disease of Endocrine		
14	3		Diseases of skin and accessory		
15	3		Diseases of eye and special organ		

- P1	- Practical Subjects:					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method	
1-2	6		Histopathological of upper respiratory tract			
3-4	6		Histological section endocarditis and myocarditis			
5-6	6		Pathological affections of aorta			
7-8	6		Pathological affection of digestive system			
9-10	6		Gastroenteritis, parasitic affection of stomach, intestinal obstruction, coccidiosis	Practical work in	Practical	
11	3		Liver necrosis, liver cirrhosis, abscess, parasitic infection of liver	laboratory	Exam	
12-13	6		Microscopic slides of metritis and salphangitis, mastitis and urinary tract			
14	3		Microscopic slides of bone infection, and cartridge, joints, osteomalaysia			
15	3		Microscopic slides from general diseases cases.			

11.Course Evaluation	1			
	Course Exam	Final Exam	Sum	
Theoretical	27	40	67	
Practical	13	20	33	
Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	Course Descript	tion Form	
1. Course Name:			
Pharmacology - 2			
2. Course Code:			
VEP3121			
2 2 /**			
3. Semester / Year:			
Second Semester	/ Third Year		
4. Description Prepa	ration Date:		
1/9/2023	Tation Date.		
17972025			
5. Available Attenda	nce Forms:		
Theoretical lea	ctures.		
 Practical work 			
	1 111 100 01 00 01		
6. Number of Credit	Hours (Total) / Num	nber of Units (Total)	
	Credit Hours	Units	
Theoretical	3	3	
Practical	2	1	
Total	5	4	
	tor's name (mention)	all, if more than one name)	
Name:			
Email:			
9 Carrago Obigativas	_		
8. Course Objectives Course Objectives	,		
Course Objectives			
•			
,			
9. Teaching and Lea			
		s through theoretical lectures.	
		l applications in laboratories.	
• Student p	prepare a scientific relate	ец геропіз.	

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-3	9		Antibacterial drugs		
4	3		Antifungal drugs		
5	3		Antiviral drugs		
6	3		Antineoplastic drugs		
7-8	6		Antinematodal, Anticestodal and Antiprotozoan		
9	3		Dermatopharmacology, Ectoparasiticides	Theoretical lectures	Written Exam
10	3		Antiseptics and Disinfectants	icetures	LAGIII
11	3		Endocrine pharmacology		
12	3		Autocoids and anti-inflammatory		
13	3		Metabolic therapy		
14	3		Growth promoter		
15	3		Herbal medicine		

- Pi	ractical	Subjects:			
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Nature and source of drugs		
2	2		Writing of prescription		
3	2		Pharmaceutical preparation for farm animals and poultry		
4	2		Despising of drugs lotion and solution		
5	2		Despising of drugs ointment and cream		
6	2		Despising of drugs antacid and laminate	Practical	Practical
7	2		Analgesic	work in	Exam
8	2		Log dose response relationships (ED50, LD50, TI)	laboratory	Exam
9	2		Sensitivity test of antibiotic		
10	2		Organophosphate poisoning in rats or mice		
11-12	4		Determination of blood cholinesterase activity		
13-14	4		Cyanide poisoning		
15	2		Aspirin toxicity (comparison with acetaminophen)		

11.Course Evaluation	n		
	Course Exam	Final Exam	Sum
Theoretical	30	45	75
Practical	10	15	25
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	F			
1. Cours	se Name:			
Virol	\mathbf{ogy}			
2. Cours				
VEM	13126			
3. Seme	ster / Year:			
Secon	nd Semester / Third Year			
	ription Preparation Date:			
1/9	/ 2023			
5 Avail	able Attendance Forms:			
	heoretical lectures.			
♥ F.	ractical work in laboratory.			
6. Numb	per of Credit Hours (Total) / Number of Units (Total)			
	Credit Hours Units			
Theo	pretical 2 2			
Prac	tical 2 1			
Tota	Total 4 3			
7 Carre	a administrate de nome (mention ell if ment then are nome)			
	se administrator's name (mention all, if more than one name)			
Name				
Email	i:			
8. Cours	se Objectives			
Course Object	ives •			
	•			
	•			
9. Teach	ning and Learning Strategies			
Strategy	Explanation of scientific subjects through theoretical lectures.			
	 Training of students for practical applications in laboratories. 			
	Student prepare a scientific related reports.			

- Theoretical Subjects:

Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1	2		Introduction and Discovering of		
1			Viruses		
2	2		Morphology and Chemistry of		
	2		Viruses		
3	2		Virus Classification and		
			Taxonomy		
4	2		Virus Multiplication and		
			Propagation (replication)		
5	2		Viral genetics and Interaction		
			Between Viruses		
6	2		Interferon and Viral Interference		
7	2		Viral Vaccines and Antiviral		
/			Drugs	Theoretical	Written
8	2		Effect of Physical and Chemical	lectures	Exam
			Agents on Viruses	rectares	LAum
9	2		Laboratory Diagnosis of Viral		
,			Infection		
10	2		Picornavirus and Caliciviridae		
11	2		Orthomyxoviridae		
12	2		Paramyxoviridae and Retroviridae		
13	2		Reoviridae, Birnaviridae,		
13	2		Rhabdoviridiae and Bornaviridae		
14	2		Poxviridae, Herpesviridae		
			Adenoviridae, Parvoviridae,	1	
15	2		Papovaviridae and		
			Papillomaviridae		

- Practical Subjects:

- 1 1	- Tractical Subjects.				
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Collection and Preservation of Viral Samples		
2-3	4		Isolation and Preservation of Viruses		
4-5	4		Propagation of Viruses in Egg Embryo		
6-8	6		Propagation of Viruses in Tissue Culture	Practical	5
9	2		Haemagglutination Test of ND Virus	work in laboratory	Practical Exam
10	2		Haemagglutination Inhibition Test of ND Virus	laboratory	
11	2		Neutralization Test for ND Virus		
12-13	4		Methods of Virus Titration		
14	2		Physical Character of Viruses		
15	2		Chemical Character of Viruses		

11.Course Evaluation Final Exam Course Exam Sum Theoretical 27 40 67 Practical 13 20 33 Total 40 60 100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

1 Cours	se Name:
veter	rinary Clinic
2. Cours	se Code:
VEC	3127
	ster / Year:
Secon	nd Semester / Third Year
1 Degar	intian Proposation Data.
	ription Preparation Date: / 2023
1/9	7 2023
5. Avail	able Attendance Forms:
_	ractical classes utilizing live animals.
	ractice in the University Veterinary Clinic.
J 1	ractice in the Oniversity veterinary Onine.
6. Numb	per of Credit Hours (Total) / Number of Units (Total)
	Credit Hours Units
Prac	tical 2 1
Tota	1
	se administrator's name (mention all, if more than one name)
Name	
Email	:
0 0	- Olivativa
X Collrs	se Objectives
	<u>.</u> J
Course Object	<u>.</u> J
	<u>.</u> J
Course Object	
Course Object	ives oning and Learning Strategies Explanation of scientific subjects through theoretical lectures.
Course Object 9. Teach	ning and Learning Strategies Explanation of scientific subjects through theoretical lectures. Practical classes utilizing live animals.
Course Object 9. Teach	ning and Learning Strategies Explanation of scientific subjects through theoretical lectures. Practical classes utilizing live animals. Practice in the University Veterinary Clinic.
Course Object 9. Teach	ning and Learning Strategies Explanation of scientific subjects through theoretical lectures. Practical classes utilizing live animals.
Course Object 9. Teach	ning and Learning Strategies Explanation of scientific subjects through theoretical lectures. Practical classes utilizing live animals. Practice in the University Veterinary Clinic.

- 1 1	actical	Subjects.			
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1	2		Introduction		
2	2		Inspection, Palpation, Percussion		
			and Auscultation		
3	2		Examination of Body Temperature		
4	2		Examination of Arterial Pulse		
5	2		Examination of Respiration		
6	2		Examination of Lymph nod		
7	2		Examination of Mucous	_	
/	2		membranes	Practical	
8	2		Examination of Respiratory	classes	*** ***
0			System	utilizing	Written
9	2		Examination of Cardiovascular	live	Exam
9			System: Heart, Jugular vein		
10	2		Examination of Digestive System:	animals	
10			Rumen, Liver, Pain reflex		
11	2		Examination of Urinary System		
12	2		Examination of Skin		
13	2		Examination of Reproductive		
13			System (Udder + Genital System)		
14	2		Route of Administration of Drugs		
15	2		Allergic Tests (Diagnostic Tests)		
13	2		and Revising		

11.Course Evaluation	on			
	Course Exam	Final Exam	Sum	
Practical	40	60	100	
Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

		I		
1. Cours	e Name:			
Clinic	cal Pathology - 1			
2. Cours	e Code:			
VED ²	4119			
3 Semes	ster / Year:			
	Semester / Fourth	 1 Year		
4. Descri	iption Preparation	Date:		
1 / 9	/ 2023			
5 Avoile	able Attendance Fo	orma:		
	heoretical lectures.			
	ractical work in lab			
• 11	actical work iii lac	oratory.		
6. Numb	er of Credit Hours	(Total) / Num	nber of Units (Total)	
	Cre	edit Hours	Units	
Theo	retical	1	1	
Pract	ical	2	1	
Tota	1	3	2	
7 Cours	a administratoris n	ana (mantian	all if more than any name)	
		ame (mention a	all, if more than one name)	
Name				
Email				
8. Cours	e Objectives			
Course Objecti	ives •			
	•			
	•			
9. Teach	ing and Learning S	Strategies		
Strategy			s through theoretical lectures.	
			applications in laboratories.	
	• Student prepare	a scientific relate	ed reports.	

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2	2		Introduction (terminology and concepts)		
3-4	2		Clinical haematology (leukocytes and erythrocytes)		
5	1		Bone marrow examination	1	
6	1		Platelets function abnormalities & diagnosis of bleeding disorders		
7	1		Clinical biochemistry, Basic principles, total portion,	Tl	W 7
8	1		Ketones, urea, enzymology, mineral levels.	Theoretical lectures	Written Exam
9	1		Metabolic profile testing and S.1. unit.		
10-11	2		Liver function test		
12-13	2		Kidney function test		
14	1		Water electrolytes and acid - base imbalance		
15	1		Disturbances of adrenal, pituitary, thyroid and parathyroid glands		
D.	actical	Subjects	1 7 8	ı	

- 1 1	- 1 factical Subjects.					
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation	
		Outcomes		method	method	
1	2		Collection of different samples.			
2	2		Erythrocytes count			
3	2		Reticulocytes count			
4	2		Packed cell volume and Hb determination			
5	2		Leukocytes parameters (TLC)			
6	2		Leukocytes parameters (DLC)			
7	2		ESR determination	Practical	Practical	
8	2		Platelets function abnormalities	work in	Exam	
9	2		Bleeding and clotting time	laboratory	LAum	
10	2		Blood smear examination			
11	2		Lymph smear examination			
12-13	4		Clinical biochemistry, Total protein, Ketones and urea.			
14	2		Enzymology and mineral levels.			
15	2		Urine examination (physical, chemical and microscopic)			

11.Course Evaluation	l		
	Course Exam	Final Exam	Sum
Theoretical	20	30	50
Practical	20	30	50
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

1. Course Name:
Female Fertility

2. Course Code:

VED4113

3. Semester / Year:

First Semester / Fourth Year

4. Description Preparation Date:

1 / 9 / 2023

- 5. Available Attendance Forms:
 - Theoretical lectures.
 - Practical work in laboratory.
 - Practical classes utilizing live animals.

6. Number of Credit Hours (Total) / Number of Units (Total)						
	Credit Hours Units					
Theoretical	2	2				
Practical	2	1				
Total	4	3				

7. Course administrator's name (mention all, if more than one name)
Name:

Email:

8. Course Objectives

Course Objectives

- •
- •

9. Teaching and Learning Strategies

Strategy

- Explanation of scientific subjects through theoretical lectures.
- Training of students for practical applications in laboratories.
- Student prepare a scientific related reports.

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Female puberty and maturity		
2	2		Physiology of the female reproductive system		
3	2		Female reproductive hormones		
4	2		Estrus cycle		
5	2		Seasonality, Ovulation, Luteolysis	Theoretical	Written
6-8	6		Infertility and sterility	lectures	Exam
9-10	4		Reproduction in buffalo cows		
11-12	4		Reproduction in mares		
13	2		Reproduction in she camels		
14	2		Reproduction in ewes and does		
15	2		Reproduction in bitch and queen		

- Pi	- Practical Subjects:				
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Outcomes		memou	memou
1	2		Anatomy of the female reproductive		
1			system		
2-3	4		Estrus signs and detection		
4	2		Vaginal examination		
5-7	6		Rectal palpation	D 41 1	
8	2		Clinical uses of hormones	Practical	Practical
9-11	6		Female infertility and sterility	work in	Exam
12	2		Abnormalities of the female	laboratory	
12	2		reproductive system		
13	2		Intrauterine therapy		
14	2		Reproductive performance		
15	2		Records		

11.Course Evaluation	1				
	Course Exam Final Exam Sum				
Theoretical	27	40	67		
Practical	13	20	33		
Total	40	60	100		

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	course bescripe		
1. Course Name:			
Infectious Diseas	ses - 1		
2. Course Code:			
VED4117			
3. Semester / Year:			
First Semester /	Fourth Year		
4. Description Prepare	aration Date:		
1 / 9 / 2023			
	_		
5. Available Attend	ance Forms:		
• Theoretical le	ectures.		
6 Number of Credi	t Hours (Total) / Num	her of Units (Total)	
0. I tuilloef of creat	Credit Hours	Units Units)
Theoretical	3	3	
Total	3	3	
7 Course administr	rator's name (mention a	all if more than on	a noma)
	ator 8 manne (mention a	an, ii more man on	
Name:			
Email:			

8. Course Ob	pjectives
Course Objectives	•
	•
	•

9. Teaching and Learning Strategies				
Strategy	• Explanation of scientific subjects through theoretical lectures.			
	 Training of students for practical applications in laboratories. 			
	• Student prepare a scientific related reports.			

- Theoretical Subjects:

- 11	- Theoretical Subjects.				
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1-2	6		Enzootic abortion in sheep,		
1-2	U		Glanders, Epizootic lymphangitis		
3	3		Strangles, Contagious bovine		
3	3		pyelonephritis		
4-5	6		Caseous lymphadenitis of sheep		
6-7	6		Ulcerative lymphangitis,		
0-7	6		Brucellosis		
8	3		Listerosis, Leptospirosis	Theoretical Written lectures Exam	
9	3		Anthrax, Salmonllosis,		
9	3		Colibacillosis		Written
10	3		Footrot and Mastitis		
11	3		TB and john's disease.		Exam
			Actinomycosis and		
12	3		Actinobacillosis, Oral and		
			laryngeal necrobacillosis		
13	3		Winter dysentery of cattle,		
13	3		Hemophilus and Moraxella		
14	3		Pasteurellosis and HS, Black leg,		
14	3		Black disease		
15	3		Tetanus, Enterotoxaemia,		
13	ر		Botulism		

11.Course Ev	aluation		
	Course Exam	Final Exam	Sum
Theore	tical 40	60	100
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	(Course Descrip	otion Fo	orm	
1. Cours	e Name:				
Interr	nal Medicine -	1			
2. Cours	a Cada				
VED ₄					
V ED-	*110	_			
3. Semes	ster / Year:				
First	Semester / Fo	urth Year			
4 Descr	iption Preparat	ion Date:			
	/ 2023	1011 Dute.			
	able Attendanc				
• TI	heoretical lectu	ires.			
6. Numb	oer of Credit Ho	ours (Total) / Nu	mber of U	Units (Total)	
		Credit Hours		Units	
Theo	retical	3		3	
Tota	1	3		3	
7 Cours	a administrator	r's name (mention	all ifm	ore than one name)	
Name		s name (mention	11 a11, 11 111	ore man one name)	
Email	-				
	01.				
	e Objectives				
Course Object	ives				
	•				
0 T 1	: T '	a Ctuata :			
	ing and Learni	of scientific subjec	ta tleman ale	the emetical leatures	
Strategy		students for practical			
		pare a scientific rela			

- Theoretical Subjects:

	- Theoretical Bubjects.				
Week	Hours	Required Learning Unit or subject name Learning Evaluati		Evaluation	
		Outcomes		method	method
1	3		Introduction		
2	3		General systemic states		
3-4	6		Digestive system: Principles of alimentary tract dysfunction		
5	3		Manifestation of alimentary tract dysfunction		
6-7	6		Diseases of the buccal cavity and associated organs, Stomatitis, Pharygeal obstruction, Pharyngeal paralysis, Esophagitis, esophageal obstruction	Theoretical lectures	Written Exam
8-11	12		Diseases of the forestomachs of ruminants		
12-13	6		Diseases of the stomach and intestine		
14-15	6		Equine colic		

11.Course Evaluation	1			
	Course Exam	Final Exam	Sum	
Theoretical	40	60	100	
Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

1. Course Name:
Morbid Anatomy - 1
2. Course Code:
VED4111
2 Compater / Voor
3. Semester / Year:
First Semester / Fourth Year
4. Description Preparation Date:
1/9/2023
5. Available Attendance Forms:
Theoretical lectures.
Practical work in laboratory.
6. Number of Credit Hours (Total) / Number of Units (Total)
Credit Hours Units
Theoretical 1 1
Practical 2 1
Total 3 2
1 otai 5 2
7. Course administrator's name (mention all, if more than one name)
Name:
Email:
8. Course Objectives
Course Objectives •
L L
9. Teaching and Learning Strategies
Strategy • Explanation of scientific subjects through theoretical lectures.
Training of students for practical applications in laboratories.
Student prepare a scientific related reports.

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Outcomes	Bovine diseases: Tuberculosis, Leptospirosis,	method	method
2	1		Contagious bovine pleuropneumonia,		
3	1		Colibacillosis, Shipping fever,		
4-5	2		Cattle plague, Bovine malignant catarrhal,		
6-7	2		Foot and mouth disease, Bovine viral diarrhea,	Theoretical	Written
8	1		Actinobacillosis, Actinomycosis,	lectures	Exam
9	1		Theileriosis, Anaplasmosis,	lectures	LXam
10	1		Babesiosis, Lumpy skin disease		
11-12	2		Ovine disease: contagious ecthyma, Sheep pox,		
13	1		Foot root, Black leg,		
14	1		Lamb dysentery, Anthrax, Listeriosis,		
15	1		Enterotoxaemia, Black disease		

- 1 1	- 1 factical Subjects.							
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation			
		Outcomes	·	method	method			
1	2		Introduction & P.M report					
2	2		Post mortem technique for large					
2	2		animals					
3	2		PM technique for lab animals					
4	2		Bovine diseases: Tuberculosis,					
4	2		Leptospirosis,					
5	2		Contagious bovine pleuro					
3			pneumonia,					
6	2		Colibacillosis, Shipping fever,					
7	2		Cattle plague, Bovine malignant	Practical				
8	2		catarrhal, Foot and mouth disease,	work in	Practical			
9	2		Bovine viral diarrhea,	laboratory	Exam			
9			Actinobacillosis,	laboratory				
10	2		Actinomycosis, Theileriosis,					
10			Anaplasmosis,					
11	2		Babesiosis, Lumpy skin disease					
12	2		Ovine disease: contagious ecthyma,					
12			Sheep pox,					
13	2		Foot root, Black leg, Lamb					
13			dysentery,					
14	2		Anthrax, Listeriosis,					
15	2		Enterotoxaemia, Black disease					

11.Course Evaluation					
	Course Exam	Final Exam	Sum		
Theoretical	20	30	50		
Practical	20	30	50		
Total	40	60	100		

12.Learning and Teaching Resources		
Required textbooks (curricular books, if any)		
Main references (sources)		
Recommended books and references (scientific		
journals, reports)		
Electronic References, Websites		

1. Course Name:

Poultry Diseases - 1

2. Course Code:

VED4114

3. Semester / Year:

First Semester / Fourth Year

4. Description Preparation Date:

1 / 9 / 2023

- 5. Available Attendance Forms:
 - Theoretical lectures.
 - Practical work in laboratory.
 - Practical classes utilizing live animals.

6. Number of Credit Hours (Total) / Number of Units (Total)			
	Credit Hours	Units	
Theoretical	2	2	
Practical	2	1	
Total	4	3	

7. Course administrator's name (mention all, if more than one name)

Name:

Email:

8. Course Objectives

	Course	Objective	S
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9. Teaching and Learning Strategies

Strategy

- Explanation of scientific subjects through theoretical lectures.
- Training of students for practical applications in laboratories.
- Student prepare a scientific related reports.

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2	4		Introduction about diseases and poultry industry		
3-7	10		Bacterial diseases	Theoretical	Written
8-10	6		Mycoplasma and Chlamydia diseases	lectures	Exam
11-15	2		Viral diseases		

<u> - Pi</u>	- Practical Subjects:				
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1	2		Introduction about poultry industry		
	2		in relation to diseases		
2	2		management of poultry house and		
			their effected on diseases		
3	2		Method for killing chickens		
	_		prepared for post mortem		
4	2		Learning student about how to write		
	_		case report		
5	2		Comparative anatomy of bird (gross		
	2		lesions and samples collection)		
6	2		E. coli infection		
7	2		Diseases caused by Salmonella	Practical	Practical
8	2		Coryza/ fowl cholera and	work in	
			spirochetosis	laboratory	Exam
9	2		Necrotic and ulcerative enteritis	,	
10	2		Mycoplasma diseases		
1.1	2		Newcastle, Maerks disease,		
11	2		leukosis, avian encephalomyelitis		
12	2		IB, IBD, IH, ILT		
12	2		Avian pox, Stunting syndrome,		
13			EDS, HHS		
14	2		Introduction about poultry industry		
14			in relation to diseases		
15	2		Requirement of management of		
13			house and their effected on diseases		

11.Course Evaluation	1		
	Course Exam	Final Exam	Sum
Theoretical	27	40	67
Practical	13	20	33
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

1. Course Name:		
Surgery - 1		

2. Course Code:

VED4115

3. Semester / Year:

First Semester / Fourth Year

4. Description Preparation Date:

1 / 9 / 2023

- 5. Available Attendance Forms:
 - Theoretical lectures.
 - Practical work in laboratory.
 - Practical classes utilizing live animals.

6. Number of Credit Hours (Total) / Number of Units (Total)				
	Credit Hours	Units		
Theoretical	3	3		
Practical	2	1		
Total	5	4		

7. Course administrator's name (mention all, if more than one name)

Name:
Email:

8. Course Objectives		
Course Objectives	•	
	•	
	•	

	9. Teaching and Learning Strategies				
• Explanation of scientific subjects through theoretical lectures.					
Training of students for pract		Training of students for practical applications in laboratories.			
		Student prepare a scientific related reports.			

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3		Introduction and classification		
	•		of Surgery		
2	3		Sterilization		
3	3		Response to trauma, Wound		
			classification		
4	3		Heamastasis, Abscess, Ulcer		
5	3		Tumors, Hernia		
6	3		Inflammation		
7	3		Affection of the bursa, joints	T1 4' 1	V V.:44
8	3		Affection of tendon	Theoretical	Written
9	3		Introduction of anesthesia and	lectures	Exam
	3		history		
10	3		Affection of the bursa, joints		
11	3		Introduction of anesthesia and		
11	3		history		
12	3		Classification of anesthesia		
13	3		Stage of anesthesia		
14	3		General anesthetic agents		
15	3		Local anesthesia		

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2	4	Outcomes	Introduction to surgical theater	memou	method
3-4	4		Instrumentation		
5-6	4		Preparation of surgical packs	Practical	
7-8	4		Preoperative examination	classes	Practical
9-10	4		Sutures and ligatures	utilizing live	Exam
11-12	4		Local anesthesia	animals.	
13-14	4		Regional anesthesia	aiiiiiais.	
15	2		Examination		

11.Course Evaluation	n		
	Course Exam	Final Exam	Sum
Theoretical	30	45	75
Practical	10	15	25
Total	40	60	100

12.Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources)					
Recommended books and references (scientific					
journals, reports)					
Electronic References, Websites					

	Course Description Form					
1. Course N	lame:					
Veterina	ry Clinic - 1					
2. Course C						
VEC411	2					
3. Semester	/Veem					
• • • • • • • • • • • • • • • • • • • •						
First Sei	mester / Fourth Year					
4. Descripti	on Preparation Date:					
1/9/20						
5. Available	e Attendance Forms:					
Pract	cical classes utilizing live animals.					
	ice in the University Veterinary Clinic.					
6. Number	of Credit Hours (Total) / Number of Units (Total)					
	Credit Hours Units					
Practica	1 4 2					
Total	4 2					
7 Caura a	dministrator's name (mention all, if more than one name)					
Name:	aministrator's name (mention an, it more than one name)					
Email:						
Emaii:						
8. Course C	biectives					
Course Objectives	J					
	•					
0 Tanahina	and Lagurina Stuataging					
	g and Learning Strategies					
Strategy	Explanation of scientific subjects through theoretical lectures.					
•	Practical classes utilizing live animals. Practice in the University Veterinary Clinic.					
	Student prepare a scientific related reports.					
	oracent prepare a selentine related reports.					

	Tructicui Subjects.						
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method		
1-15	4		Weekly rotation at the departments of the University Veterinary Clinic: 1. Internal medicine 2. Surgery. 3. Obstetrics. 4. Poultry and fish. 5. Clinical pathology.	Practice in the University Veterinary Clinic	Objective Structured Practical Veterinary examination (OSPVE)		

11.Course Evaluation	1			
	Course Exam	Final Exam	Sum	
Practical	40	60	100	
Total	40	60	100	

12.Learning and Teaching Resources		
Required textbooks (curricular books, if any)		
Main references (sources)		
Recommended books and references (scientific		
journals, reports)		
Electronic References, Websites		

	Course Description 1 orm					
1. Cours	1. Course Name:					
Clinic	Clinical Pathology - 2					
	- AV					
2. Cours	2. Course Code:					
VED ²	VED4127					
	ster / Year:					
Secon	nd Semester / Fourth Year					
4. Descr	ription Preparation Date:					
1 / 9	/ 2023					
5. Availa	able Attendance Forms:					
	heoretical lectures.					
	ractical work in laboratory.					
<u> </u>	detical work in laboratory.					
6. Numb	per of Credit Hours (Total) / Number of Units (Total)					
	Credit Hours Units					
Theo	pretical 1 1					
Pract	tical 2 1					
Tota	al 2					
	se administrator's name (mention all, if more than one name)					
Name						
Email						
8. Cours	se Objectives					
Course Objectives •						
•						
	•					
O Tanahing and I saming Strategies						
9. Teach Strategy	 ing and Learning Strategies Explanation of scientific subjects through theoretical lectures. 					
Strategy	 Explanation of scientific subjects through theoretical fectures. Training of students for practical applications in laboratories. 					
	 Student prepare a scientific related reports. 					

- Theoretical Subjects:

Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1-3	3		Clinical parasitology		
4	1		Rumen fluid examination		
5-6	2		Clinical microbiology		
7-8	2		Milk Examination	Theoretical	Written
9	1		Antimicrobial sensitivity test	lectures	Exam
10-12	3		Clinical immunology	icetures	LXaiii
13	1		Transudate and exudate		
14-15	2		Water electrolytes and acid - base imbalance		

- 1 1	- Tractical Subjects.					
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation	
		Outcomes		method	method	
1-2	4		Fecal examination			
3	2		Skin scraping examination			
4-5	4		Clinical microbiology			
6-7	4		Milk Examination (physical and chemical)	Practical		
8	2		Milk Examination (Bacterial)	work in	Practical	
9-10	4		Antimicrobial sensitivity test	laboratory	Exam	
11	2		Rumen fluid examination]		
12-13	4		Serological test			
14-15	4		Tests of detection of toxic substances.			

11.Course Evaluation						
	Course Exam	Final Exam	Sum			
Theoretical	20	30	50			
Practical	20	30	50			
Total	40	60	100			

12.Learning and Teaching Resources				
Required textbooks (curricular books, if any)				
Main references (sources)				
Recommended books and references (scientific				
journals, reports)				
Electronic References, Websites				

Course Description Form						
1. Course Name:						
Infectious Diseases - 2						
2. Course Code:						
VED4126						
3. Semester / Year:						
Second Semester / Fourth Year						
4. Description Preparation Date:						
1 / 9 / 2023						
5. Available Attendance Forms:						
Theoretical lectures.						
6 Number of Chadit House (Total) / Number of Huite (Total)						
6. Number of Credit Hours (Total) / Number of Units (Total)						
Credit Hours Units						
Theoretical 3 3						
Total 3						
7. Course administrator's name (mention all, if more than one name)						
Name:						
Email:						
8. Course Objectives						
Course Objectives •						
9. Teaching and Learning Strategies						
• Explanation of scientific subjects through theoretical lectures.						
Training of students for practical applications in laboratories.						
• Student prepare a scientific related reports.						

- Theoretical Subjects:

- Theoretical Subjects:					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-5	15		Diseases caused by Viruses	TC1 4' 1	XX7 :44
6-10	15		Diseases caused by Fungus	Theoretical	Written Exam
11-15	15		Diseases caused by Parasites	lectures	Exam

11.0	Course Evaluation				
		Course Exam	Final Exam	Sum	
	Theoretical	40	60	100	
	Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	Course Description	ion Form	
1. Course Name:			
Internal Medicin	ne - 2		
2. Course Code:			
VED4128			
3. Semester / Year:			
Second Semeste	r / Fourth Year		
4. Description Prepa	aration Date:		
1 / 9 / 2023			
5. Available Attend	ance Forms:		
Theoretical leading			
- Theoretical R	votares.		
6. Number of Credi	t Hours (Total) / Numl		
	Credit Hours	Units	
Theoretical	3	3	
Total	3	3	
7. Course administr	ator's name (mention a	all, if more than one na	me)
Name:		,	
Email:			
8. Course Objective	S		
Course Objectives •	<u> </u>		
•			
9. Teaching and Lea	arning Strategies		
		through theoretical lecture	
	g of students for practical a prepare a scientific related	applications in laboratories d reports	•
- Student	propure a serentific related	a 10p0166.	

- Theoretical Subjects:

	neon eth	ai Subjects.			
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-3	9		Diseases of Liver		
4-8	15		Diseases of Nervous system	Theoretical	Written
9-13	15		Diseases of Respiratory system	lectures	Exam
14-15	6		Diseases of Skin		

11.C	ourse Evaluation				
		Course Exam	Final Exam	Sum	
	Theoretical	40	60	100	
	Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	Course Description 1 of m
1. Cours	e Name:
Morb	id Anatomy - 2
2. Cours	e Code:
VED ₄	4121
	ster / Year:
Secon	nd Semester / Fourth Year
4. Descr	iption Preparation Date:
	/ 2023
5 Avail	able Attendance Forms:
	heoretical lectures.
	ractical work in laboratory.
• 11	actical work in laboratory.
6. Numb	per of Credit Hours (Total) / Number of Units (Total)
	Credit Hours Units
Theo	oretical 1 1
Pract	tical 2 1
Tota	1 3 2
	se administrator's name (mention all, if more than one name)
Name	
Email	
8. Cours	se Objectives
Course Object	J
	•
	•
9 Teach	ing and Learning Strategies
Strategy	Explanation of scientific subjects through theoretical lectures.
~ · · · · · · · · · · · · · · · · · · ·	 Training of students for practical applications in laboratories.
	Student prepare a scientific related reports.

- Theoretical Subjects:

Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1-2	2		Equine disease: Strangles, Glanders		
3-4	2		Shigellosis, Epizootic lymphangitis, Ulcerative lymphangitis		
5-6	2		Equine infectious anemia, Equine influenza		TT 7 ****
7-8	2		Canine and Feline disease: Rabies	Theoretical	Written
9-10	2		Canine distemper	lectures	Exam
11-12	2		Canine viral hepatitis, Feline parvovirus		
13	1		Lab animal disease: Tyzzer's disease		
14-15	2		Coccidiosis in rabbit, External parasite		

- 1 1	actical Subjects:				
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Strangles,		
2	2		Glanders		
3	2		Shigellosis,		
4	2		Epizootic lymphangitis		
5	2		Ulcerative lymphangitis,		
6	2		Equine influenza	D .: 1	
7	2		Equine infectious anemia	Practical	Practical
8	2		Rabies	work in	Exam
9	2		Canine distemper	laboratory	
10	2		Canine viral hepatitis		
11	2		Feline parvovirus		
12	2		Tyzzer's disease		
13	2		Coccidiosis in rabbit		
14-15	4		External parasite		

11.Course Evaluation	n		
	Course Exam	Final Exam	Sum
Theoretical	20	30	50
Practical	20	30	50
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

1. Course Name:

Poultry Diseases - 2

2. Course Code:

VED4124

3. Semester / Year:

Second Semester / Fourth Year

4. Description Preparation Date:

1 / 9 / 2023

- 5. Available Attendance Forms:
 - Theoretical lectures.
 - Practical work in laboratory.
 - Practical classes utilizing live animals.

6. Number of Credi	6. Number of Credit Hours (Total) / Number of Units (Total)				
	Credit Hours Units				
Theoretical	2	2			
Practical	2	1			
Total	Total 4 3				

7. Course administrator's name (mention all, if more than one name)

Name:

Email:

8. Course Objectives

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9. Teaching and Learning Strategies

Strategy

- Explanation of scientific subjects through theoretical lectures.
- Training of students for practical applications in laboratories.
- Student prepare a scientific related reports.

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2	4				
3-7	10			Theoretical	Written
8-10	6			lectures	Exam
11-15	2				

- 1 1	- 1 lactical Subjects.				
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1-2	4		Malnutrition of diseases		
3	2		Method for killing chickens prepared for post mortem		
4	2		Method used for vaccination		
5	2		Parasitic diseases		
6	2		Drug used for treatment of poultry diseases		
7	2		Mycotic diseases	Practical	Practical
8-9	4		Field visiting to layers, parents stock	work in laboratory	Exam
10-11	4		Bacteriological and serological method and collection of blood,		
12-13	2		diseases of seabird, wild birds and prey birds (Eagles and Hawks)		
14	2		Methods of treatment		
15	2		Visiting to scientific central lab in veterinary medicine college		

11.Course Evaluation	n			
	Course Exam	Final Exam	Sum	
Theoretical	27	40	67	
Practical	13	20	33	
Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

1. Course Name:

Surgery - 2

2. Course Code:

VED4125

3. Semester / Year:

Second Semester / Fourth Year

4. Description Preparation Date:

1 / 9 / 2023

- 5. Available Attendance Forms:
 - Theoretical lectures.
 - Practical work in laboratory.
 - Practical classes utilizing live animals.

6. Number of Credi	6. Number of Credit Hours (Total) / Number of Units (Total)				
	Credit Hours Units				
Theoretical	3	3			
Practical	2	1			
Total					

7. Course administrator's name (mention all, if more than one name)

Name:

Email:

8. Course Objectives

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- •

9. Teaching and Learning Strategies

Strategy

- Explanation of scientific subjects through theoretical lectures.
- Training of students for practical applications in laboratories.
- Student prepare a scientific related reports.

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3		Regional anesthesia		
2	3		Preanesthetic consideration		
3	3		Premeditation and muscle relaxant		
4	3		Inhalation anesthesia		
5-6	6		Anesthesia of lab animals and birds		
7	3		X-ray	T1	W 7
8	3		Radiation hazard and protection	Theoretical	Written
9	3		Diagnostic and procedures of radiology	lectures	Exam
10	3		Processing of X-Ray		
11-12	6		Fracture		
13	3		Lameness and hoof affection		
14	3		Laser surgery		
15	3		Eye and ear		

- 1 1	- 11 actical Subjects.				
Week	Hours	_	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1-3	6		General anesthesia 6		
4-6	6		X-ray 6		
7-9	6		Orthopedics surgery 6	Practical	
10	2		Tendon surgery 2	classes	D4:1
11	2		Intra articular injection 2	utilizing	Practical
12	2		Laser surgery	live	Exam
13	2		Eye and ear surgery 2	animals.	
14	2		Docking 2		
15	2		Examination 2		

11.Course Evaluatio	n		
	Course Exam	Final Exam	Sum
Theoretical	30	45	75
Practical	10	15	25
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

General anesthesia 6
X-ray 6
Orthopedics surgery 6
Tendon surgery 2
Intra articular injection 2
Laser surgery
Eye and ear surgery 2
Docking 2
Examination 2

Course Description Form					
1. Cours	e Name:				
Veter	inary Clinic - 2				
2. Cours					
VEC ₂	1123				
3 Semes	ster / Year:				
	d Semester / Fou	rth Vear			
Secon	id Schiester / Fou	itii i cai			
4. Descri	iption Preparation	Date:			
	/ 2023				
5. Availa	able Attendance Fo	orms:			
• Pr	actical classes util	izing live an	imals.		
• Pr	ractice in the Unive	ersity Veterii	nary Clini	c.	
6. Numb	er of Credit Hours				
		edit Hours	J	<u>Units</u>	
Pract		4		2	
Tota	<u>l</u>	4		2	
7.0	1	(1:	11 ' C	.1	
		ame (mentio	n all, if m	ore than one name)	
Name					
Email	:				
8 Cours	e Objectives				
Course Objecti					
	•				
	•				
0 5 1	. 17	~ · ·			
	ing and Learning S				
Strategy	• Explanation of scientific subjects through theoretical lectures.				
	• Practical classes	_		:_	
	• Practice in the U	-	-		
	• Student prepare	a scientific rela	ateu reports	1.	

- 1 1	- Tractical Subjects:					
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation	
		Outcomes		method	method	
			Weekly rotation at the			
			departments of the		Objective	
			University Veterinary	Practice in	Structured	
			Clinic:	the	Practical	
1-15	4		1. Internal medicine	University		
			2. Surgery.	Veterinary	Veterinary examination	
			3. Obstetrics.	Clinic	(OSPVE)	
			4. Poultry and fish.		(OSPVE)	
			5. Clinical pathology.			

11.Course Evaluation	1			
	Course Exam	Final Exam	Sum	
Practical	40	60	100	
Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

1. Course Name:

Veterinary Obstetrics

2. Course Code:

VED4122

3. Semester / Year:

Second Semester / Fourth Year

4. Description Preparation Date:

1 / 9 / 2023

- 5. Available Attendance Forms:
 - Theoretical lectures.
 - Practical work in laboratory.
 - Practical classes utilizing live animals.

6. Number of Credit Hours (Total) / Number of Units (Total)			
	Credit Hours	Units	
Theoretical	2	2	
Practical	2	1	
Total	4	3	

7. Course administrator's name (mention all, if more than one name)

Name:

Email:

8. Course Objectives

	ojectives

- •
- •

9. Teaching and Learning Strategies

Strategy

- Explanation of scientific subjects through theoretical lectures.
- Training of students for practical applications in laboratories.
- Student prepare a scientific related reports.

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Fertilization		
2	2		Physiology of pregnancy		
3	2		Maternal recognition of pregnancy		
4	2		Length of gestation period		
5	2		Maintenance of pregnancy		
6	2		Pregnancy diagnosis	Theoretical	Written
7-8	4		Problem of pregnancy	lectures	Exam
9	2	Parturition			
10	2		Normal uterine involution		
11	2		Uterine defense mechanism		
12-13	4		Dystocia		
14-15	4		Puerperal diseases		

- P1	- Practical Subjects:				
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1	2		Implantation and embryo		
1			development		
2	2		Fetal membrane		
3	2		Position of uterus during pregnancy		
4-5	4		Rectal palpation		
6-7	4		Method of pregnancy diagnosis		
8	2		Induction of abortion and parturition	Practical	Practical
9	$\frac{1}{2}$		Normal Presentation, Position and	work in	Exam
9	9 2		Posture	laboratory	Exam
10-11	4		Abnormal Presentation, Position		
10-11	4	and Posture			
12	2		Obstetrical instruments		
13	2		Obstetrical maneuvers		
14	2		Fetotomy		
15	2		Caesarian section		

11.Course Evaluatio	n		
	Course Exam	Final Exam	Sum
Theoretical	27	40	67
Practical	13	20	33
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	Course Description Form
1. Cours	se Name:
Zoon	otic Diseases
2. Cours	se Code:
VED	94107
3 Seme	ester / Year:
	nd Semester / Fourth Year
Seco	nd Semester / Pourth Tear
4. Desci	ription Preparation Date:
	0 / 2023
5. Avail	lable Attendance Forms:
• T	Theoretical lectures.
6. Numl	ber of Credit Hours (Total) / Number of Units (Total)
	Credit Hours Units
	oretical 2 2
Tota	al 2 2
7 Cour	se administrator's name (mention all, if more than one name)
Name	
Emai	
Elliai	1.
8. Cours	se Objectives
Course Object	tives •
	•
	•
9 Teacl	hing and Learning Strategies
Strategy	Explanation of scientific subjects through theoretical lectures.
~ · · · · · · · · · · · · · · · · · · ·	Training of students for practical applications in laboratories.
	Student prepare a scientific related reports.

- Theoretical Subjects:

	- Theoretical Subjects:							
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation			
		Outcomes	·	method	method			
1	2		Introduction to the zoonosis,					
1	2		Principles of zoonosis recognition					
2	2		Principles of zoonosis control and					
2	2		prevention, Viral zoonosis					
			Eastern, Venezuelan and Western					
3	2		equine encephalitis, Louping - ill,					
			Mad cow disease					
			Rabies, California encephalitis,					
4	2		Colorado tick fever, West Nile					
4			fever, Yellow fever, Nairobi sheep					
			disease					
5	2		Influenza, Newcastle disease,					
			Psittacosis, Q fever					
6	2		Bacterial zoonosis, Anthrax,					
			Listerosis, Leptospirosis, Lepracy					
			Closterdium perfringes food	Theoretical	Written			
7	2		poisoning, Streptocuccosis,					
			Staphylococuccosis	lectures	Exam			
8	2		Colibacillosis, Vibriosis,					
			Salmonllosis, Shigellosis					
9	2		Parasitic zoonosis, Arthropod					
			infection and tick paralysis					
10	2		Cestoda infection: Coenuriasis,					
10			Taeniasis.					
11	2		Trematode infection:Fascioliasis,					
- 11			Dictoceliasis					
			Nematode infection: Ascariasis,					
12	2		Capillariasis, Filariasis,					
			Thelaziasis, Trichinosis					
13	2		Cutanous larva migrans, Visceral					
			larva migrant					
14	2		Protozoa infection					
15	2		Fungal infection					

11.C	ourse Evaluation				
		Course Exam	Final Exam	Sum	
	Theoretical	40	60	100	
	Total	40	60	100	

12.Learning and Teaching Resources				
Required textbooks (curricular books, if any)				
Main references (sources)				
Recommended books and references (scientific				
journals, reports)				
Electronic References, Websites				

1. Cour	se Name:
Fish	Diseases
	se Code:
VED	D5110
3. Seme	ester / Year:
First	Semester / Fifth Year
4. Desc	ription Preparation Date:
	9 / 2023
5 Avoi	lable Attendance Forms:
	Theoretical lectures.
• P	Practical work in laboratory.
6. Num	ber of Credit Hours (Total) / Number of Units (Total)
	Credit Hours Units
The	oretical 2 2
Prac	etical 2 1
Tota	al 4 3
7.0	1 ' ' / / / / / / / / / / / / / / / / /
	se administrator's name (mention all, if more than one name)
Name	
Emai	.1:
8. Cour	se Objectives
Course Objec	tives •
	•
9. Teacl	hing and Learning Strategies
Strategy	Explanation of scientific subjects through theoretical lectures.
	Training of students for practical applications in laboratories.
	Student prepare a scientific related reports.

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Introduction of Ichthyology and Fish Pathology		
2-3	4		Prevention and health control	Theoretical	Written
4-7	8		Infectious diseases	lectures	Exam
8-12	10		Parasitic diseases		
13-15	6		Non infectious diseases		

- Pi	- Practical Subjects:					
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation	
		Outcomes		method	method	
1	2		Introduction in fish breeding and			
1			diseases			
2	2		External appearance for fish and			
			anatomy			
3	2		Physical and chemical property of			
			pond water			
4	2		Pond's designed			
5	2		Fish feeding, breeding, and types of			
3			ponds			
6	2		Sample taken and preservation			
7	2		Practical examination	Practical	D4:1	
8	2		Practical tests and bacterial culture	work in	Practical	
			in fish	laboratory	Exam	
9	2		Parasitic tests and diagnosis	laceratery		
,			methods in fish			
10	2		Practical fishing and field fish exam			
11	2		Diagnostic and pathological slides			
11	2		show			
12	2		Methods with practical apply			
13	2		Practical work on pathological			
13	_		samples for diagnosis			
14	2		Pond's fertilization and it's methods			
15	2		Final Practical examination			

11.Course Evaluation	ı		
	Course Exam	Final Exam	Sum
Theoretical	27	40	67
Practical	13	20	33
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	(Course Descrip	otion Fo	rm	
1. Course	e Name:				
Intern	al Medicine -	- 1			
2. Course	a Cada				
VED5					
VEDS	7113	_			
3. Semes	ter / Year:				
First S	Semester / Fi	fth Year			
4 Descri	ption Prepara	tion Date:			
	/ 2023	tion Dute.			
	ble Attendance				
• Th	neoretical lectr	ures.			
6. Numb	er of Credit H	lours (Total) / Nu	mber of U	Jnits (Total)	
		Credit Hours		Units	
Theor	retical	3		3	
Total	[3		3	
7 Course	a administrato		n oll if m	ore than one name)	
Name:		of 8 marrie (memor	11 411, 11 111	ore man one name)	
Email:	-				
Ziiidii	•				
	e Objectives				
Course Objecti	ves				
	•				
0 T 1	· 1 T				
		ing Strategies	1 1	41 41 4	
Strategy		n of scientific subject students for practical			
		epare a scientific rela			
	•	_	•		

- Theoretical Subjects:

	Theoretical Subjects.				
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1-8	24		Metabolic Diseases: - Milk fever, Downer cow syndrome, Hypomagnesemia tetany - Pregnancy toxemia, Ketosis, Post parturient Hb urea, Azotouria.	Theoretical	Written
9-15	21		Nutritional Diseases: - Vitamin deficiency: D, A, E, K, C and B vitamins Mineral deficiency: Ca, P, Cu, Iodine, Mn, Zn and Osteomalacia.	lectures	Exam

11.Course	Evaluation				
		Course Exam	Final Exam	Sum	
The	oretical	40	60	100	
Tot	al	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	C	Course Descrip	tion Form	
1. Cours	se Name:			
Male	Fertility			
	•/			
2. Cours	se Code:			
VEC	25111			
2 0	1 / 37			
	ester / Year:	41. X 7		
First	Semester / Fift	tn Year		
4. Descr	ription Preparati	ion Date:		
1 / 9	0 / 2023			
•	lable Attendance			
• T	Theoretical lectur	res.		
• P	ractical work in	laboratory.		
• P	ractical classes	utilizing live anim	mals.	
6. Num	ber of Credit Ho		nber of Units (Total)	
		Credit Hours	Units	
	oretical	1	1	
· · · · · · · · · · · · · · · · · · ·	etical	2	<u> </u>	
Tota	al	3	2	
7 Cours	se administrator	's name (mention	all, if more than one r	name)
Name		5 name (mention	tun, ii more mun one i	iume)
Emai				
Lina	1.			
8. Cours	se Objectives			
Course Object	tives •			
	•			
	•			
9. Teacl	hing and Learnin	ng Strategies		
Strategy			s through theoretical lectu	res.
<i>5v</i>	•		l applications in laboratori	
	Student prep	pare a scientific relat	ted reports.	

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1		Male puberty and maturity		
2	1		Hormonal control of male reproductive system		
3	1		Spermatogenesis		
4	1		Composition of semen		
5	1		Sperm metabolism 1	T1	W7.::44
6	1		Method of semen collection	Theoretical	Written
7-8	2		Method of semen evaluation	lectures	Exam
9-10	2		Method of semen dilution		
11	1		Method of semen storage		
12	1		Artificial insemination and Sperm transport		
13-15	3		Infertility in males		

	Tructicui Subjects.				
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1	2		Anatomy of the male genital system		
2	2		Breeding soundness		
3-4	4		Semen collection	D 4: 1	
5-7	6		Semen evaluation	Practical	Practical
8	2		Semen dilution	work in	Exam
9-10	4		Semen storage	laboratory	
11-12	4		Insemination techniques		
13-15	6		Infertility in males		

11.Course Evaluation	1			
	Course Exam	Final Exam	Sum	_
Theoretical	20	30	50	•
Practical	20	30	50	
Total	40	60	100	•

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	C	ourse Descrip		
1. Cours	se Name:			
	Hygiene			
2. Cours	se Code:			
VEH	[5114			
	ester / Year:			
First	Semester / Fift	h Year		
4 Descr	ription Preparati	on Date:		
	0 / 2023	on Bute.		
1,7	7 2025			
5. Avail	lable Attendance	Forms:		
• T	heoretical lectur	res.		
• P	ractical work in	laboratory.		
6. Num	ber of Credit Ho	urs (Total) / Nur	mber of Units (Total	l)
		Credit Hours	Units	
The	oretical	2	2	
Prac	tical	2	1	
Tota	al	4	3	
7	1	l (4:	11 '.C)
		s name (mention	n all, if more than or	ne name)
Name				
Emai	1:			
8. Cour	se Objectives			
Course Object	<u> </u>			
	•			
	•			
0 Tagal	hing and Learnir	ag Strategies		
Strategy		<u> </u>	ts through theoretical le	ectures
~ ii ii ii ii			al applications in labora	
		are a scientific rela		
	•			

- Theoretical Subjects:

Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes	,	method	method
1	2		Terms in meat hygiene		
2	2		Meat structure		
3	2		Conversion of muscle to meat		
4	2		Parts of abattoir		
5	2		Pre slaughter meat inspection		
6	2		Post slaughter meat inspection		
7	2		Meat preservation		
8	2		Meat spoilage	Theoretical	Written
9	2		Meat microbiology	lectures	Exam
10	2		Food poisoning		
11	2		Residues in meat		
12	2		Sanitation in abattoir		
13	2		Judgment on bacterial diseases		
14	2		Judgment on parasitic diseases		
15	2		Slaughter and dressing of poultry carcasses		

- P	racticai	Subjects:			
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Meat plant construction and operation		
2	2		Ante-mortem inspection of animals		
3	2		Carcass inspection		
4	2		Head and viscera inspection		
5	2		Bleeding efficiency of carcasses		
6	2		Estimation of meat pH		
7	2		Abnormal odors in meat		
8	2		Abnormal colors in meat	Practical	Practical
9	2		Distinguish between fat and meat of different animals	work in laboratory	Exam
10	2		Qualitative tests for meat		
11	2		Meat microbiology (part 1)		
12	2		Meat microbiology (part 2)		
13	2		Detection of drug residues in meat		
14	2		Detection of mycotoxin residues in meat		
15	2		Slaughter and dressing of poultry carcasses		

11.Course Evaluation	n		
	Course Exam	Final Exam	Sum
Theoretical	27	40	67
Practical	13	20	33
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	Course Description Form
1. Course Na	me:
Surgery -	1
2. Course Co	de:
VEC5115	

3. Semester /	
First Sem	ester / Fifth Year
1 Description	n Preparation Date:
1 / 9 / 202	
1/7/202	
5. Available	Attendance Forms:
• Theore	etical lectures.
Practice	al work in laboratory.
6. Number of	Credit Hours (Total) / Number of Units (Total)
	Credit Hours Units
Theoretic	al 2
Practical	2 1
Total	4 3
	ministrator's name (mention all, if more than one name)
Name:	
Email:	
8. Course Ob	iectives
Course Objectives	jectives
Course Objectives	•
	•
	and Learning Strategies
	Explanation of scientific subjects through theoretical lectures.
	Fraining of students for practical applications in laboratories. Student prepare a scientific related reports.
•	student prepare a scientific related reports.

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Digestive system: Affection of salivary gland		
2	2		Affection of tongue		
3	2		Affection of teeth		
4	2		Affection of esophagus		
5	2		Affection of stomach		
6	2		Affection of small intestine		
7	2		Affection of digestive		
/	Z		accessory organs	Theoretical	Written
8	2		Facial paralysis	lectures	Exam
9	2		Respiratory system: Affection of upper tract	rectures	Lam
10	2		Affection of larynx and guttural		
11-12	4		Affection lungs and trachea		
13	2		Affection of chest wall		
14	2		Cardiovascular system: cardiac anomalies		
15	2		Pericarditis		

11	Tractical Subjects.					
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation	
		Outcomes		method	method	
1-2	4		Oesophagotomy			
3-4	4		Tracheotomy			
5-7	6		Intestinal surgery	Practical	Practical	
8-9	4		Enterotomy	work in	Exam	
10-11	4		Castration	laboratory	Exam	
12-13	4		Gastrotomy			
14-15	4		Mammectomy			

11.Course Evaluation	n		
	Course Exam	Final Exam	Sum
Theoretical	27	40	67
Practical	13	20	33
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

Course Description Form						
1. Cours	se Name:					
Veter	inary Clinic - 1					
	2. Course Code:					
VEC	5112					
3. Seme	ester / Year:					
First	Semester / Fifth Year					
4. Desci	ription Preparation Date:					
1 / 9	7/2023					
5 Arrail	able Attendance Forms:					
	ractical classes utilizing live animals.					
• P	ractice in the University Veterinary Clinic.					
6. Numl	ber of Credit Hours (Total) / Number of Units (Total)					
	Credit Hours Units					
Prac	tical 14 7					
Tota	nl 14 7					
7.0						
	se administrator's name (mention all, if more than one name)					
Name						
Emai	I:					
8. Cours	se Objectives					
Course Object	y .					
	•					
	•					
9. Teacl	ning and Learning Strategies					
Strategy	Explanation of scientific subjects through theoretical lectures.					
- · · · · · · · · · · · · · · · · · · ·	 Practical classes utilizing live animals. 					
	Practice in the University Veterinary Clinic.					
Student prepare a scientific related reports.						

- 1 1	- Tractical Subjects.							
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation			
		Outcomes		method	method			
1-15	14		Weekly rotation at the departments of the University Veterinary Clinic: 1. Internal medicine	Practice in the University	Objective Structured Practical			
			 Surgery. Obstetrics. Poultry and fish. Clinical pathology. 	Veterinary Clinic	Veterinary examination (OSPVE)			

11.Course Evaluation	1			
	Course Exam	Final Exam	Sum	
Practical	40	60	100	
Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	Course Descripti	ion Form						
1. Course Name:								
Internal Medicin	e - 2							
2. Course Code:	2. Course Code							
VED5120								
3. Semester / Year:								
Second Semester	r / Fifth Year							
4. Description Prepa	ration Date:							
1/9/2023								
5. Available Attenda	maa Famaa							
• Theoretical le								
Theoretical ic	ctures.							
6. Number of Credit	Hours (Total) / Numb							
	Credit Hours	Units						
Theoretical	3	3						
Total	3	3						
7. Course administra	ator's name (mention a	all, if more than one na	ame)					
Name:								
Email:								
8. Course Objective	S							
Course Objectives •								
•								
9. Teaching and Lea								
		through theoretical lecture						
	of students for practical a	applications in laboratorie d reports.	S.					
<u> </u>		•						

11	Theoretical Subjects:					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method	
1-3	9		Cardiovascular system			
4-8	15		Blood and blood forming organs	Theoretical	Written	
9-12	12		Poisonous material	lectures	Exam	
13-15	9		Urinary system			

11.Course Evaluation	1			
	Course Exam	Final Exam	Sum	
Theoretical	40	60	100	
Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

		ourse Descri	ւթստո Ի)1 III	
1. Cours	se Name:				
Milk	Hygiene				
	78				
2. Cours	se Code:				
VEH	5121				
	ester / Year:				
Seco	nd Semester / 1	Fifth Year			
4. Descr	ription Preparat	ion Date:			
	/ 2023				
5 A '1	111 A 1	Г			
	able Attendanc				
	heoretical lectu				
• P	ractical work in	ı laboratory.			
6 Num	ber of Credit Ho	ours (Total) / N	umbor of I	Inita (Total)	
O. INUIII	ber of Clean III				
	· 1	Credit Hours		<u>Units</u>	
	oretical	2		2	
Prac		2		1	
Tota	al	4		3	
7. Cour	se administrator	r's name (mention	on all. if m	nore than one na	me)
Name		B Harris (Historia	on wii, ii ii		1110)
Emai					
Linai	1.				
	se Objectives				
Course Object	tives •				
	•				
	•				
9. Teacl	hing and Learni	ng Strategies			
Strategy			ects through	theoretical lecture	S.
				ions in laboratories	
		pare a scientific re			

- Theoretical Subjects:

- Theoretical Subjects.					
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes	· ·	method	method
1	2		Definition of milk, The		
1	2		Importance of Milk from Animals		
2	2		Structure of Mammary Gland,		
			mechanism of milk synthesis		
			Milk Components and Milk		
3	2		Quality, and nutritional aspect of		
			milk		
4	2		The Microbiological of the Dairy		
			Milk		
5	2		Milk from farm to dairy plant, and		
			characteristics of milk		
6	2		Microbiology of milk	Theoretical	Written
7	2		Guidelines for dairy food	lectures	Exam
			manufacturing premises	lectures	Exam
8	2		Milk and dairy science		
9	2		Milk quality and Mastitis		
10	2		Diagnostic procedures of mastitis		
11	2		Mastitis staphylococci		
12	2		Somatic Cell Counts		
13	2		Contaminants and drug residues of		
13			milk		
14	2		Probiotic and Health Aspects		
15	2		Cleaning and Sanitizing in Milk		ļ
13			Production and Processing		

	actical	Subjects.			
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1	2		Procedures for collecting milk		
1	2		samples		
2	2		Milk specific gravity determination		
3	2		Determination of fat and total solids		
3			in milk.		
4	2		Measurement of milk proteins and		
7			рН		
5	2		Detection of milk adulteration		
6	2		Mastitis test.		
7	2		Petrifilm method for detecting		
/			bacterial contamination in milk	Practical	
8	2		Detection of drug residues in milk	work in	Practical
9	2		Detection of mycotoxin residues in	laboratory	Exam
9	2		milk	laboratory	
10	2		ELISA method for detecting milk		
10			contaminants		
11	2		Estimation of milk acidity		
12	2		Somatic Cell Counts		
13	2		Isolation and identification of		
13			bacteria causing mastitis (part 1)		
14	2		Isolation and identification of		
17			bacteria causing mastitis (part 2)		
15	2		Isolation and identification of		
13	2		bacteria causing mastitis (part 3)		

11.Course Evaluation	1			
	Course Exam	Final Exam	Sum	
Theoretical	27	40	67	
Practical	13	20	33	
Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

Reproductive Biotechnology

2. Course Code:

VEC5117

3. Semester / Year:

Second Semester / Fifth Year

4. Description Preparation Date:

1 / 9 / 2023

5. Available Attendance Forms:

- Theoretical lectures.
- Practical work in laboratory.
- Practical classes utilizing live animals.

6. Number of Credit Hours (Total) / Number of Units (Total) Credit Hours Units

	Cicait Houis	Cilito
Theoretical	1	1
Practical	2	1
Total	3	2

7. Course administrator's name (mention all, if more than one name)

Name: Email:

8. Course Objectives

Course Objectives

- •
- •

9. Teaching and Learning Strategies

Strategy

- Explanation of scientific subjects through theoretical lectures.
- Training of students for practical applications in laboratories.
- Student prepare a scientific related reports.

- Theoretical Subjects:

Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1	1		Ultrasonography-general		
1	1		information		
2	1		Ultrasonography in large animals		
3	1		Ultrasonography in small animals		
4	1		Estrus synchronization in bovine		
5	1		Estrus synchronization in ovine		
3	1		and caprine		
6	1		Controlling the age of puberty		
7	1		Superovulation	Theoretical	Written
8-9	2		Embryo Transfer	lectures	Exam
10	1		Laparoscopic intrauterine		
10	1		insemination		
11	1		Methods of oocyte collection and		
11	1		maturation		
12	1		In vitro fertilization		
13	1		Sperm sexing (Gender selection)		
14	1		Cloning and splitting of embryo		
15	1		Suppress of reproductive activity		

- PI	ractical	Subjects:			
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2	4	Outcomes	Clinical application of ultrasonography	method	method
3	2		Estrus synchronization		
4	2		Controlling the age of puberty		
5	2		Superovulation		
6	2		Embryo transfer	D.,	
7	2		Intrauterine insemination	Practical work in	Practical
8	2		Methods of oocyte collection and maturation	laboratory	Exam
9-10	4		In vitro fertilization		
11	2		Sperm sexing (Gender selection)		
12	2		Cloning and splitting of embryo		
13	2		Suppress of reproductive activity		
14-15	4		Ovariectomy and castration		

11.Course Eval	uation			
	Course Exam	Final Exam	Sum	_
Theoretic	al 20	30	50	
Practical	20	30	50	
Total	40	60	100	-

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	Course Descr	iption F	orm	
1. Course Name:				
Surgery - 2				
C V				
2. Course Code:				
VEC5123				
3. Semester / Year:				
Second Semester	/ Fifth Year			
4. Description Prepar	ration Date:			
1 / 9 / 2023	lation Date.			
17772023				
5. Available Attendar	nce Forms:			
Theoretical led	ctures.			
 Practical work 	in laboratory.			
	<i>-</i>			
6. Number of Credit	Hours (Total) / N	umber of	Units (Total	l)
	Credit Hours		Units	
Theoretical	2		2	
Practical	2		1	
Total	4		3	
		44 10		
7. Course administration	tor's name (menti-	on all, if i	more than or	ne name)
Name:				
Email:				
8. Course Objectives				
Course Objectives •	,			
Course Objectives				
•				
9. Teaching and Lear				
	ion of scientific subjection			
	of students for practi			itories.
• Student p	orepare a scientific re	ialed repor	ıs.	

- Theoretical Subjects:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Outcomes	Hernia	method	method
2	2		Treatment of Fistula whether	•	
3	2		Affection of male genital system	1	
4	2		Affection female genital system		
5	2		Treatment Pneumovagina		
6	2		Affection of penis and prepuce	1	
7	2		Preparation of teaser		
8	2		Castration	Theoretical	Written
9	2		Urinary system: Affection of kidney	lectures	Exam
10	2		Affection of ureter	1	
1	2		Affection of urinary bladder	1	
12	2		Affection of urethra		
13	2		Affection of teat and udder		
14	2		Ear surgery		
15	2		Eye surgery		

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2	4		Teat fistula		
3-4	4		Nephrectomy		
5-6	4		Ovariohysterectomy	Dua -4:1	
7-8	4		Cystotomy and Cystectomy	Practical work in	Practical
9-10	4		Urethrostomy and Urethrotomy		Exam
11-12	4		Splenectomy	laboratory	
13-14	4		Rumenotomy		
15	2		Ophthalmic surgery		

11.Course Evaluation							
	Course Exam	Final Exam	Sum				
Theoretical	27	40	67				
Practical	13	20	33				
Total	40	60	100				

12.Learning and Teaching Resources				
Required textbooks (curricular books, if any)				
Main references (sources)				
Recommended books and references (scientific				
journals, reports)				
Electronic References, Websites				

	Course Descripti	on Form	
1. Course Name:			
Veterinary Clin	ic - 2		
2. Course Code:			
VEC5118			
3. Semester / Year:			
Second Semeste			
4. Description Prep	paration Date:		
1 / 9 / 2023			
7 1111 1	1 7		
5. Available Attend		_	
	sses utilizing live anima		
• Practice in the	ne University Veterinar	y Clinic.	
6 Number of Cued	it Houng (Total) / Numb	on of Units (Total)	
6. Number of Cred	it Hours (Total) / Numb	/	
D 4' 1	Credit Hours	Units	
Practical	12	6	
Total	12	6	
7. Course administ	rator's name (mention a	ll, if more than one	e name)
Name:	•		
Email:			
0 0 01: 4:			
8. Course Objectiv	es		
Course Objectives •			
9 Teaching and Le	earning Strategies		

9. Teach	9. Teaching and Learning Strategies			
Strategy	Explanation of scientific subjects through theoretical lectures.			
	Practical classes utilizing live animals.			
	Practice in the University Veterinary Clinic.			
	Student prepare a scientific related reports.			

Tructicui Subjects.							
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method		
1-15	12		Weekly rotation at the departments of the University Veterinary Clinic: 1. Internal medicine 2. Surgery. 3. Obstetrics. 4. Poultry and fish. 5. Clinical pathology.	Practice in the University Veterinary Clinic	Objective Structured Practical Veterinary examination (OSPVE)		

11.Course Evaluation	1			
	Course Exam	Final Exam	Sum	
Practical	40	60	100	
Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	1
1. Cours	se Name:
Veter	inary Ethics
2. Cours	se Code:
VEC	5119
2 0	, / \$7
	ester / Year:
Seco	nd Semester / Fifth Year
4. Desci	ription Preparation Date:
	/ 2023
5 Arrai1	alala Attandanaa Earman
	able Attendance Forms:
• 1	heoretical lectures.
6. Numl	ber of Credit Hours (Total) / Number of Units (Total)
	Credit Hours Units
Theo	oretical 1 1
Tota	1 1
7. Cours	se administrator's name (mention all, if more than one name)
Name	2:
Emai	1:
0.0	
	se Objectives
Course Object	ilves •
	L
9. Teach	ning and Learning Strategies
Strategy	• Explanation of scientific subjects through theoretical lectures.
	Training of students for practical applications in laboratories.
	Student prepare a scientific related reports.

- 11	- Theoretical Subjects.						
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation		
		Outcomes		method	method		
1	1		Veterinarians Medical Doctor Duties				
2	1		Ethics of Veterinarians				
3	1		Veterinary job Licenses				
4	1		Veterinary Medicine clinic				
5	1		Veterinary Medical Services	Theoretical	Written		
6	1		Veterinary Medical consultant burses	lectures	Exam		
7	1		Order for giving consultant				
8	1		Graduating consultant of veterinaries				
9-15	7		Job Ethics				

11.Course Evaluat	ion			
	Course Exam	Final Exam	Sum	
Theoretical	40	60	100	
Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

1. Course Name:			
Veterinary Forensic Medicine			
2. Course Code:			
VED5122			
VEDS122			
3. Semester / Year:			
Second Semester / Fifth Year			
4. Description Preparation Date:			
1 / 9 / 2023			
5. Available Attendance Forms:			
Theoretical lectures.			
Theoretical lectures.			
6. Number of Credit Hours (Total) / Number of Units (Total)			
Credit Hours Units			
Theoretical 1 1			
Total 1			
7. Course administrator's name (mention all, if more than one name)			
Name:			
Email:			
8. Course Objectives			
Course Objectives •			
•			
•			
0 T1:11			
9. Teaching and Learning Strategies Strategy			
Strategy • Explanation of scientific subjects through theoretical lectures.			
 Explanation of scientific subjects through theoretical lectures. Training of students for practical applications in laboratories. 			
Strategy • Explanation of scientific subjects through theoretical lectures. • Training of students for practical applications in laboratories.			
 Explanation of scientific subjects through theoretical lectures. Training of students for practical applications in laboratories. 			

Theoretical Subjects.					
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1-3	2		Death, cause of general		
1-3	3		death, syncope, asphyxia		
			Drowning, sudden death,		
			death from starvation, death		
4-6	3		from cold, death from effect	Theoretical	Written
			of heat, death from electric	lectures	Exam
			current		
7-9	3		Burns and it's types		
10-12	3		Wounds and it's types		
13-15	3		Toxin and it's types		

11.Course Evaluation	n			
	Course Exam	Final Exam	Sum	
Theoretical	40	60	100	
Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

1. Course Name:

Research Projects

2. Course Code:

VEC5125

3. Semester / Year:

Second Semester / Fifth Year

4. Description Preparation Date:

1/9/2023

- 5. Available Attendance Forms:
 - Theoretical lectures.
- 6. Number of Credit Hours (Total) / Number of Units (Total)

 Credit Hours Units

 Theoretical 1 1

 Practical 1 1

Total 2 2

7. Course administrator's name (mention all, if more than one name)

Name:

Email:

8. Course Objectives

Course Objectives

- •
- •
- •

9. Teaching and Learning Strategies

Strategy

- Explanation of scientific subjects through theoretical lectures.
- Training of students for practical applications in laboratories.
- Student prepare a scientific related reports.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-3	3		Research methods and hypothesis testing 3		
4-6	3		Defining problems 3	Theoretical	Written
7-9	3		Designing study 3	lectures	Exam
10-12	3		Data management 3		
13-15	3		Writing reports 3		

- Practical Subjects:

The students conducts a research project and submits the work for discussion

11.Course Evaluation	1		
	Course Exam	Final Exam	Sum
Theoretical	20	30	50
Practical	20	30	50
Total	40	60	100

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	

	(Course Descript	ion Form	
1. Cours	se Name:			
Sumi	mer Clinic			
2. Cours				
VEC	25109			
3 Seme	ester / Year:			
		· / Fourth Year		
Sum	mer Semester	/ Fourth Tear		
4. Descr	ription Prepara	ntion Date:		
	0 / 2023			
5. Avail	lable Attendan	ce Forms:		
• P	ractice in the	University Veterina	ry Clinic.	
		T (D 1) (D)	1 277 (7 1)	
6. Num	ber of Credit F		ber of Units (Total)	
		Credit Hours	Units	
	tical	15	3	
Tota	al	15	3	
7 Cour	ga administrat	orla noma (mantian	all, if more than one na	ma)
7. Cours		of 8 manne (miention)	an, ii more man one na	11116)
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Elliai	1;			
8. Cours	se Objectives			
Course Object				
_	•			
	•			
0 Taga1	hing and Learr	sing Strategies		
9. Teach Strategy			through theoretical lecture	· O
Strategy	_	an of scientific subjects lasses utilizing live ani	_	S.
1	- Tractical C	iasses uniizing nve am	mais.	

Practice in the University Veterinary Clinic. Student prepare a scientific related reports.

- 1 1	- Tractical Subjects:					
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation	
		Outcomes		method	method	
			Weekly rotation at the			
			departments of the		Objective	
			University Veterinary	Practice in	Structured	
			Clinic:	the	Practical	
1-9	15		1. Internal medicine	University		
			2. Surgery.	Veterinary	Veterinary examination	
			3. Obstetrics.	Clinic	(OSPVE)	
			4. Poultry and fish.		(OSFVE)	
			5. Clinical pathology.			

11.Course Evaluation	1			
	Course Exam	Final Exam	Sum	
Practical	40	60	100	
Total	40	60	100	

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	