







Course Specification of Veterinary Immunology

	I. Course Identifi	cation and Ge	neral Inforn	nation:		
1	Course Title:		Veterinary	/ Immunolog	gy	
2	Course Number & Code:	MI351				
			С.Н			Total
3	Credit hours:	Theoretical	Practical	Training	Seminar	Total
		2	1	0	0	3
	Study level/		Third Year -	- First Seme	ester	
	semester at					
4	which this					
	course is					
	offered:					
5	Pre –requisite (if	PH242 , PH243				
	any):			<u>, </u>		
6	Co –requisite (if any):					
	Program (s) in]	Bachelor Vet	erinary Med	icine	
7	which the course					
	is offered:					
	Language of		Eı	nglish		
8	teaching the					
	course:			3.5.41.1		
	Location of	Faculty	of Veterinary		building an	d
9	teaching the		labo	oratories		
10	course:		Du Fotal: /	Al: Wahasa D	.1:	
10	Prepared by:		Dr. Faten A	Ali Yahya Ba	101	
11	Date of approval:					

II. Course description:

This course provides students with basic information to understand immunology in terms

of the composition of the immune system, cellular and molecular components,

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functions of

the immune system, various immune system mechanisms and the role of colostrum and

maternal immunity in the animal health. The course will cover also the allergies and types,

vaccines and their types, vaccination importance, selection and analysis of diagnostic immunological tests implemented in practice. This course is considered to be an important

pre-technology course that enables the student to understand other related sciences and

explain many phenomena related to these sciences such as microbiology, pathology, pharmacy, infectious diseases, epidemiology, clinical pathology, and internal medicine.

Intended learning outcomes (ILOs) of the course: III. (A) Knowledge and Understanding: Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Knowledge and Understanding. **Program Intended Learning Outcomes Course Intended Learning Outcomes** (Sub-PILOs) in: (CILOs) in: **Knowledge and Understanding Knowledge and Understanding** After completing this program, students will be After completing this course, students will be able to A1-Demonstrate knowledge and a1-Demonstrates knowledge of the understanding of concepts and different organs and cells involved in principles of general culture, basic the immune response science, and supportive to and its mechanism of action veterinary medicine. A3-Identifies various causes of diseases a2-Determines the types of vaccines and and animal epidemics and how they their importance in addition to the can be diagnosed, including various applications of immunology common diseases that life in the diagnostic aspects threatening of animals, poultry and

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Teaching And Assessment Methods For Achieving Learning Outcomes:

Alignment of Learning Outcomes of Knowledge and Understanding to Teaching and **Assessment Methods:**

Cor	urse Intended Learning Outcomes	Teaching	Methods of
	(CILOs) in Knowledge and	strategies/methods to	assessment
	Understanding	be used	
comp	Demonstrates knowledge of the	-Lectures using board, data shows and multimedia aids.	-Written exam -Practical written exam
	different organs and cells involved in the immune response and its mechanism of action	brainstorm.Discussion.Self-learning by	-Oral exam - Quizzes
a2-	Determines the types of vaccines and their importance in addition to the various applications of immunology in the diagnostic aspects	preparing essay and presentations (computer and faculty library) - theoretical lectures and presentation on the basic knowledge of Immunological laboratories and test (laboratory demonstrations)	ReportassignmentsDiscussion

(B) Intellectual Skills:

Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Intellectual skills

Program Intended Learning Outcomes (Sub- PILOs) in Intellectual skills		C	ourse Intended Learning Outcomes (CILOs) of Intellectual Skills
After completing this program, students will be able to:			completing this course, students will be able
B1-	Competently practices analytical and critical thinking skills in studying and assessing health problems and reading the results of animal medical examinations and in related sciences	b1-	explains how the immune response occurs and how the immune system can identify the strange antigens

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symptoms of immune deficiency.



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B2-	Predicts an appropriate medical diagnosis for the most common disease states through analysis of clinical story data and the results of medical examinations of sick animal.	b2-	Assess various symptoms of immun	allergic states, ne deficiency.	
	Teaching And Assessment Methods For Achieving Learning Outcomes:				
_	Alignment of Learning Outcomes of Intellectual Skills to Teaching Methods and Assessment Methods:				
Asse	ssment Methods:				
	ourse Intended Learning Outcomes		Teaching	Methods of	
		stra	Teaching tegies/methods to be used	Methods of assessment	
Co	completing this course, students will be		tegies/methods to be		
After able t	completing this course, students will be o:	-Lec	tegies/methods to be used	assessment	
Co	completing this course, students will be o: explains how the immune	-Led boar	tegies/methods to be used tures using	assessment -Written exam	
After able t	completing this course, students will be o: explains how the immune response occurs and how the	-Led boar and	tegies/methods to be used tures using rd, data shows	-Written exam -Practical exam	
After able t	completing this course, students will be occurse occurs and how the immune response occurs and how the immune system can identify the	-Led boar and - bra	tegies/methods to be used tures using rd, data shows multimedia aids.	-Written exam -Practical exam -Oral exam	
After able t	completing this course, students will be o: explains how the immune response occurs and how the	-Led boar and - bra - Dis	tegies/methods to be used tures using rd, data shows multimedia aids. ainstorm.	-Written exam -Practical exam -Oral exam - Quizzes	
After able t	completing this course, students will be occurse occurs and how the immune response occurs and how the immune system can identify the	-Led boar and - bra - Dis -Sel	tegies/methods to be used tures using rd, data shows multimedia aids. ainstorm. scussion.	-Written exam -Practical exam -Oral exam - Quizzes - Report	

(computer and faculty

Laboratory test troubleshooting.Case studies Historical stories

library)

(C) Professional and Practical Skills: Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Professional and Practical Skills Program Intended Learning Outcomes (Sub-PILOs) in Professional and Practical Skills Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills After completing this program, students will be able to: After completing this course, students will be able to:

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وضمان الجودة أ.د. هدى العماد	د. عبدالرؤف الشوكاني	د. عبدالرقيب الشامي	الموصف رنيس الجامعة د. عبدالرقيب الشامي
ا.د. هدى العماد			أد القاسم محمد عباس

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C1	C1 Accurately records a comprehensive pathological story of a sick animal including information on healthy behavior and the necessary checks		:1-		te samples and perform ogical diagnostic tests for ious cases
C2	Practices practical, diagnostic, clinical and resessills, including the collection of samples in varied fields of veterinary medicine and related science a safe and effective manner, considering the ethic the profession.	rious es, in	:2-	Conducts vaccinat	ions for different animals
1.74	Teaching And Assessment Meth				0
	ment of Learning Outcomes of Professional and Praction				
Co	ourse Intended Learning Outcomes (CILOs) in Professional and Practical Skills	Teach		strategies/methods o be used	Methods of assessment
After	completing this course, students will be able to:			I training cal and practical	Written exam -Practical exam
c1-	Collect appropriate samples and perform suitable immunological diagnostic tests for clinical and infectious cases	labora	ator nsti lls, a	y tests rations, practice and	-Oral exam - Quizzes - Report assignments - Discussion
c2-	Conducts vaccinations for different animals	(a) F dairy (b)N labou (c) Q auth	ield and latic ato lual oriti	l visits (farms- d poultry) onal animal ry visits ity standards es visits	Discussion

(\mathbf{D})	General / Transferable Skills:				
	Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: General Transferable skills				
Pr	Program Intended Learning Outcomes (PILOs) in General / Transferable skills Course Intended Learning Outcome General / Transferable skills				
Afte	completing this program, students will be able to:	After	r completing this course, students will be able to		
D1-	Communicates effectively with Professional colleagues and animal owners and expresses his ideas clearly and objectively.	d1-	Communicate effectively with logistic teams and scientifically discuss in scient in scientific discussions and meetings.		

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D2-	Develops his scientific, professional and research capabilities and follow what is emerging in his field of specialization and using computer applications and information and communication technology.	d2-	Develops scientific and pro the field of veterinary in sciences, in particular bord to laboratory immuno monitors scientific develo- through use electronic libra	nmunology a erline technic assays, vac opments in t
	Teaching And Assessment Meth			
	Alignment of Learning Outcomes of General and Transe Intended Learning Outcomes (CILOs) in General and Transferable Skills		aching strategies/methods to be used	Metho assess
After	completing this course, students will be able to:		If-learning by preparing ay and presentations	-Written exa -Practical ex
d1-	Communicate effectively with logistic and working teams and scientifically discuss in scientific manner in scientific discussions and meetings.	(cor libra - Sc	mputer and faculty	-Oral exam - Report ass - Discussion - Note perfo
d2-	Develops scientific and professional performance in the field of veterinary immunology and related sciences, in particular borderline techniques related to laboratory immunoassays and vaccines, and monitors scientific developments in these fields through the use electronic libraries and Internet		ssignments	Twee point

IV. Course Content:

1 – Course Topics/Items:

a – Theoretical Aspect

Order	Topic List / Units	CILOs (symbols)	Sub-topic List	Number of weeks	Contact hours
1	Introduction to immunology and its importance in veterinary medicine	a1, a2, b1, b2 c1, c2, d1	 Definition and terms Historic prospective Importance of Immunology in animal health and production 	1	2

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2	Immune system: components and responses types	a1, a2, b1, b2 c1, c2, d1	 Primary and secondary Immune Organs Cells of immune system molecules of immune system Immune response types 	3	6
3	Innate Immunity and complement system	a1, a2, b1, b2 c1, c2, d1	 Physical and mechanical barriers Pathogen recognition Innate immunity defense molecules Complement systems 	3	6
4	Acquired Immunity	a1, a2, b1, b2 c1, c2, d1	AntigensHumoral immunityCell mediated immunity	3	6
5	Hypersensitivity	a1, a2, b1, b2 c1, c2, d1	Hypersensitivity I &IIHypersensitivity III & IV	2	4
6	Vaccination and Vaccines	a1, a2, b1, b2 c1, c2, d1	 Vaccines important and quality control Vaccines types	2	4
	Number of Weel	ks /and Units Per	Semester	14	28

	b- Training Aspect:						
Order	Training Tasks	CILOs (symbols)	Number of weeks	Contact hours			
1	Introduction to Immunology Laboratory and quality control	a1, a2, b1, b2 c1, c2, d1	2	4			
2	Complement Fixation Test	a1, a2, b1, b2 c1, c2, d1	2	4			
3	Agglutination and Precipitation	a1, a2, b1, b2 c1, c2, d1	3	6			
4	Labeled Immunoassay	a1, a2, b1, b2 c1, c2, d1	2	4			

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5	Vaccination procedures and troubleshooting	a1, a2, b1, b2 c1, c2, d1	3	6
6	Scientific Visit	a1, a2, b1, b2 c1, c2, d1	2	4
	Number of Weeks /and Units Per Semester			

V. Teaching strategies of the course:

- Lectures using data shows and multimedia aids.
- Self-learning by preparing essay and presentations (computer and faculty library)
- Brainstorm
- Discussion
- Cooperative learning
- Practical training (Clinical demonstrations, practice of skills, and discussions).
 - (a) Field visits (farms and villages)
 - (b) General experimental animal teaching
 - (c) Clinical and small group sessions
 - (d) Outpatient clinic
- Tutorial classes (small group teaching)

3-Assessment Methods:

- -Written exam
- -Practical exam
- -Oral exam
- -Ouizzes
- Report assignments
- Discussion

VI. Schedule of Assessment Task Semester:				or Students	During the
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes (CILOs symbols)
1	Participation, quizzes and assignments	2-14	10	10%	a1, a2, b1, b2 c1, c2

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2	Mid-Term Exam	8	10	10%	a1, a2, b1, b2 c1, c2
3	Mid-Term Practical Exam	8	10	10%	a1, a2, b1, b2 c1, c2
4	Final Practical Exam	15	10	10%	a1, a2, b1, b2 c1, c2
5	Oral Exam	16	5	5%	a1, a2, b1, b2 c1, c2
6	Final Exam	16	55	55%	a1, a2, b1, b2 c1, c2
	Total		100	100%	

VII. Students' Support:	
Office Hours/week	Other Procedures (if any)
Saturday-Wednesday from 8:00 a.m2 p.m.	Student can contact me via email

VIII. Learning Resource (MLA style or APA style)S:
Required Textbook(s) (maximum two)
 Day, M. J., Schultz, R. D. (2014). Veterinary Immunology: Principles and Practice, Second Edition. United Kingdom: CRC Press.
• Sirois, M. (2019). Laboratory Manual for Laboratory Procedures for Veterinary Technicians E-Book. United States: Elsevier Health Sciences.
Recommended Readings and Reference Materials
 Objective Type Questions and Answers in Veterinary Immunology. (20 (n.p.): Scientific Publishers (India). Gershwin, L. (2017). Case Studies in Veterinary Immunology. United St. CRC Press.
Essential References
Tizard, I. R. (2017). Veterinary Immunology - E-Book. United States: Elsevier Health Sciences.
Electronic Materials and Web Sites etc.

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https://www.journals.elsevier.com/veterinary-immunology-and-
<u>immunopathology</u>
Other Learning Material:
- https://www.oie.int/scientific-expertise/veterinary-products/diagnostic-

	Course Policies:
1	Class Attendance: MANDATORY TO ATTEND ALL COURSE LECTURES
2	Tardiness: Not allowed at all. Students must be in class or in the practical session 10 minutes prior to the beginning of lectures or practical session
3	Exam Attendance/Punctuality: Attendance is mandatory; absence is accepted with valid excuse
4	Assignments & Projects: All assignments and projects are to be submitted on their due date. Any assignment turned in after the due date will not be accepted without valid and reasonable excuse
5	Cheating: Not tolerated and may lead to EXPELLING the student from the program
6	Plagiarism: Not tolerated AT ALL and may lead to EXPELLING the student from the program
7	Other policies: 1. All devices must be on silent or at least on vibration during lectures/labs 2. Before any exam (written, oral) we must check student's identity (student's card, ID, passport). Without any of these documents, the student will not be allowed in the exam room. 3. Any of type/ form of cheating is not allowed no matter what. 4. Maintain silence during lectures/exam and disturbance is not allowed. For any questions students should raise their hand and wait for permission to talk.

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Course Plan of Veterinary Immunology

X Information about Faculty Member Responsible for the Course:							
Name of Faculty Member	Dr. Fateh Ali Yahya Badi	Office Hours					
Location & Telephone No.	Dhamar university	SAT	SUN	MON	TUE	WED	THU
E-mail							

KI.	KI. Course Identification and General Information:							
	1	Course Title:	Veterinary Immunology					
	2	Course Number & Code:	MI351					
				C.H]			
	3	Credit hours:	Th.	Seminar	Pr.	F. Tr.	Total	
			2	-	1		3	
	4	Study level/year at which this course is offered:	Third Year – First Semester					
	5	Pre –requisite (if any):		PH24	2, PH	243		
	6	Co -requisite (if any):	None					
	7	Program (s) in which the course is offered	Bachelor Veterinary Medicine					
	8	Language of teaching the course:		Е	nglish			

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د. عبدالرقيب الشامي









9	System of Study:	Regular / Semesters		
10	Mode of delivery:	Lecturers, presentations, tutorials, practical laboratory works		
11	Location of teaching the course: Faculty of Veterina			

II. Course Description:

This course provides students with basic information to understand immunology in terms of the composition of the immune system, cellular and molecular components, functions of the immune system, various immune system mechanisms and the role of colostrum and maternal immunity in the animal health. The course will cover also the allergies and types, vaccines and their types, vaccination importance, selection and analysis of diagnostic immunological tests implemented in practice. This course is considered to be an important pre-technology course that enables the student to understand other related sciences and to explain many phenomena related to these sciences such as microbiology, pathology, pharmacy, infectious diseases, epidemiology, clinical pathology, and internal medicine.

XIII. Intended learning outcomes (ILOs) of the course:

After completing this course, students will be able to:

- a1- Demonstrates knowledge of the different organs and cells involved in the immune response and its mechanism of action
- a2- Determines the types of vaccines and their importance in addition to the various applications of immunology in the diagnostic aspects.
- b1- explains how the immune response occurs and how the immune system can identify the strange antigens
- b2- Assess various allergic states, symptoms of immune deficiency.

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- c1- Collect appropriate samples and perform suitable immunological diagnostic tests for clinical and infectious cases
- c2- Conducts vaccinations for different animals
- d1- Communicate effectively with logistic & working teams and scientifically discuss in scientific manner in scientific discussions and meetings.
- d2- Develops scientific and professional performance in the field of veterinary immunology and related sciences, in particular borderline techniques related to laboratory immunoassays, vaccines, and monitors scientific developments in these fields through use electronic libraries & Internet

XIV. **Course Content:**

A – Theoretical Aspect:

Order	Topics List	Week Due	Contact Hours
1	Introduction to immunology and its importance in veterinary medicine • Definition and terms • Historic prospective • Importance of Immunology in animal health and production	1	2
2	Immune system : components and responses types - Primary and secondary - Immune Organs •Cells of immune system • molecules of immune system • Immune response types	2,3,4	6
3	Innate Immunity and complement system • Physical and mechanical barriers • Pathogen recognition • Innate immunity defense molecules • Complement systems	5,6,7	6
4	Mid-Term Exam	8	2

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5	Acquired Immunity • Antigens • Humoral immunity • Cell mediated immunity	9,10,11	6
6	HypersensitivityHypersensitivity I &IIHypersensitivity III & IV	12,13	4
7	Vaccination and Vaccines • Vaccines importance and quality control • Vaccines types	14,15	2
8	Final Exam	16	2
	Number of Weeks /and Units Per Semester	16	32

b- Training Aspect:					
Order	Training Tasks	Week Due	Contact hours		
1	Introduction to Immunology Laboratory and quality control	1,2	4		
2	Complement Fixation Test	3,4	4		
3	Agglutination and Precipitation	5,6,7	6		
4	Mid-Term Exam	8	2		
5	Labeled Immunoassay	9,10	4		
6	Vaccination procedures and troubleshooting	11,12,13	6		
7	Scientific Visit	14,15	4		
8	Final Exam	16	2		
	Number of Weeks /and Units Per Semester	16	32		

Teaching strategies of the course: XV.

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- Lectures using board, data shows and multimedia aids.
- Self-learning by preparing essay and presentations (computer and faculty library)
- Brainstorm
- Discussion
- Cooperative learning
- Practical training (Clinical demonstrations, practice of skills, and discussions).
- (a) Field visits (farms and villages)
- (b) General experimental animal teaching
- (c) Clinical and small group sessions
- (d) Outpatient clinic
- Tutorial classes (small group teaching)

XVI.Assessment Methods:

- -Written exam
- -Practical exam
- -Oral exam
- -Quizzes
- Report assignments
- Discussion

Grading Scale:

Grades are awarded on a scale from A to F, where A is the best grade (90-100) and F is a fail (<50).

N.B.:

- 1. Any student who pass the 25% of the class attendance will not be allowed for the final exam.
- 2. Students are advised to study hard in the class during the semester.
- 3. Retaking an exam is not allowed without valid excuse.

No.	Type of Assessment Tasks	Week Due	Mark	Proportion of Final Assessment
1	Participation, quizzes and assignments	2-14	10	10%

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2	Mid-Term Exam	8	10	10%
3	Mid-Term Practical Exam	8	10	10%
4	Final Practical Exam	15	10	10%
5	Oral Exam	16	5	5%
6	Final Exam	16	55	55%
	Total		100	100%

VIII. Learning Resources:

1- Required Textbook(s) (maximum two).

- Day, M. J., Schultz, R. D. (2014). Veterinary Immunology: Principles and Practice, Second Edition. United Kingdom: CRC Press.
- Sirois, M. (2019). Laboratory Manual for Laboratory Procedures for Veterinary Technicians E-Book. United States: Elsevier Health Sciences.

2- Essential References.

Tizard, I. R. (2017). Veterinary Immunology - E-Book. United States: Elsevier Health Sciences.

3- Electronic Materials and Web Sites etc.

https://www.journals.elsevier.com/veterinary-immunology-andimmunopathology

https://www.oie.int/scientific-expertise/veterinary-products/diagnostic-tests/

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	 All assignments and projects are to be submitted on their due date. Any assignment turned in after the due date will not be accepted without valid and reasonable excuse 		
5	Cheating:		
	 Not tolerated and may lead to EXPELLING the student from the program 		
6	Plagiarism:		
	 Not tolerated AT ALL and may lead to EXPELLING the student from the program 		
7	Other policies:		
	 All devices must be on silent or at least on vibration during lectures/labs Before any exam (written, oral) we must check student's identity (student's card, ID, passport). Without any of these documents, the student will not be allowed in the exam room. 		
	3. Any of type/ form of cheating is not allowed no matter what. Maintain silence during lectures/exam and disturbance is not allowed. For any questions students should raise their hand and wait for permission to talk.		

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