Faculty Of Veterinary Medicine

Veterinary Medicine Program









Course Specification of Veterinary Immunology

I.	I. Course Identification and General Information:					
1	Course Title:	Veterinary Immunology				
2	Course Number & Code:		N	11351		
		C.H				Total
3	Credit hours:	Theoretical	Practical	Training	Seminar	Total
		2	1	0	0	3
4	Study level/ semester at which this course is offered:	Third Year – First Semester				
5	Pre –requisite (if any):		PH242	2 , PH243		
6	Co -requisite (if any):					
7	Program (s) in which the course is offered:	Bachelor Veterinary Medicine				
8	Language of teaching the course:	English				
9	Location of teaching the course:	Faculty of Veterinary Medicine - building and laboratories				
10	Prepared by:	Dr. Fateh Ali Yahya Badi				
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, 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.

Prepared by Dr. Fateh Badi

Quality Assurance Unit Dr. Abdulrageb Alshami

Dean of the Faculty Ass. Prof. Dr. Abdu Alraoof Al-Shawkany

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Veterinary Medicine Program









TT	I Intended leaving outcomes (II C) a) o	f the correspon	
	I. Intended learning outcomes (ILC Knowledge and Understanding:	<i>JS)</i> 0	i the course:	
	gnment of Course Intended Learning Outcomes (CILOs) to Pr Unde	_		Os) in: Knowledge and
Program Intended Learning Outcomes (Sub- PILOs) in: Knowledge and Understanding Course Intended Learning Outcomes (CILOs) in Knowledge and Understanding				
After	completing this program, students will be able to:	Afte	r completing this course, studen	ts will be able to:
A1-	Demonstrate knowledge and understanding of concepts and principles of general culture, basic science, and supportive to veterinary medicine.	a1- Demonstrates knowledge of the different organs and cells involved in the immune response and its mechanism of action		
A3-	Identifies various causes of diseases and animal epidemics and how they can be diagnosed, including common diseases that life threatening of animals, poultry and fish.	a2- Determines the types of vaccines and their importance in addition to the various applications immunology in the diagnostic aspects		he various applications of
	Teaching And Assessment Metho	ds F	or Achieving Learning	Outcomes:
	Alignment of Learning Outcomes of Knowledge an			
Cou	rrse Intended Learning Outcomes (CILOs) in Knowledge and Understanding	Teaching strategies/methods to be used		Methods of assessment
a1-	Demonstrates knowledge of the different organs and cells involved in the immune response and its mechanism of action Determines the types of vaccines and their importance in addition to the various applications of immunology in the diagnostic aspects	-Lectures using board, data shows and multimedia aids brainstorm Discussion Self-learning by preparing essay and presentations (computer and faculty library) - theoretical lectures and presentation on the basic		-Written exam -Practical written exam -Oral exam - Quizzes - Report assignments - Discussion
I	Prepared by Quality Assurance Unit Dr. Fateh Badi Dr. Abdulraqeb Alshami	Г	wledge of Immunological Dean of the Faculty Prof. Dr. Abdu Alraoof	Academic Development Center & Quality

Assurance Ass. Prof. Dr. Huda Al-Emad

Al-Shawkany

Faculty Of Veterinary Medicine

Veterinary Medicine Program









			poratories and test	
(T)		(la	aboratory demonstrations)	
\ /	Intellectual Skills:			
	ment of Course Intended Learning Outcomes (CILOs) to Pr			
	ogram Intended Learning Outcomes (Sub- PILOs) in Intellectual skills		ourse Intended Learning Intellectual	Skills
After	completing this program, students will be able to:	After	completing this course, studen	nts will be able to:
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		
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 allergic states, symptoms o immune deficiency.		
	Teaching And Assessment Metho	ds F	or Achieving Learnin	g Outcomes:
	ment of Learning Outcomes of Intellectual Skill			sment Methods:
Cor	urse Intended Learning Outcomes (CILOs) in Intellectual Skills.	Teac	ching strategies/methods to be used	Methods of assessment
After	completing this course, students will be able to:	-Lec	tures using board, data	-Written exam
b1-	explains how the immune response occurs and how the immune system can identify the strange antigens	shows and multimedia aids brainstorm DiscussionSelf-learning by preparing -Practical exam -Oral exam - Quizzes - Report assignment		-Oral exam- Quizzes- Report assignments
b2-	Assess various allergic states, symptoms of immune deficiency.			- Discussion
Dr. Fateh Badi Dr. Abdulraqeb Alshami Ass. Prof. Dr. Abdu Alraoof Center &		Academic Development Center & Quality Assurance		

Rector of Sana'a University Prof. Dr. Al-Qassim Mohammed Abbas

Ass. Prof. Dr. Huda Al-Emad

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Veterinary Medicine Program









(C)	(C) Professional and Practical Skills:					
Align	ment of Course Intended Learning Outcomes (CILOs) to Prog			Learning Outcomes (P	ILOs) in: Professional and	
	Practical 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:	Ā	After	completing this cour	rse, students will be able to:	
C1	C1 Accurately records a comprehensive pathological story of a sick animal including information on healthy behavior and the necessary checks		e1-	Collect appropriate samples and perfor suitable immunological diagnostic tests f clinical and infectious cases		
C2	Practices practical, diagnostic, clinical and research skills, including the collection of samples in various fields of veterinary medicine and related sciences, in a safe and effective manner, considering the ethics of the profession.		:2-	Conducts vaccinate	tions for different animals	
Alian	Teaching And Assessment Methode and Practice of Learning Outcomes of Professional and Practice					
	ourse Intended Learning Outcomes (CILOs) in Professional and Practical Skills		ing s	strategies/methods o be used	Methods of assessment	
After	completing this course, students will be able to:	-Practical training		_	Written exam -Practical exam	
c1-	Collect appropriate samples and perform suitable immunological diagnostic tests for clinical and infectious cases Conducts vaccinations for different animals	laboratory tests -Or demonstrations, practice of skills, and discussions) Re		tests ations, practice of discussions). visits (farms- poultry) nal animal y visits ty standards es visits	-Oral exam - Quizzes - Report assignments - Discussion	

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(D)	(D) General / Transferable Skills:			
1	Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: General and Transferable skills			
Pro	gram Intended Learning Outcomes (PILOs) in		SKIIIS Course Intended Learning (Outcomes (CILOs) in
110	General / Transferable skills		General / Transfer	The state of the s
After o	completing this program, students will be able to:	Afte	r completing this course, student	s will be able to:
D1-	Communicates effectively with Professional	d1-	Communicate effectively v	J
	colleagues and animal owners and expresses his		teams and scientifically	
	ideas clearly and objectively.		manner in scientific discuss	
D2-	Develops his scientific, professional and	d2-	Develops scientific and pr	-
	research capabilities and follow what is		in the field of veterinary i	
	emerging in his field of specialization and using computer applications and information and		sciences, in particular bord to laboratory immuno	assays, vaccines, and
	communication technology.		monitors scientific develo	
	communication technology.		through use electronic libra	
	Teaching And Assessment Meth	ode		
	Alignment of Learning Outcomes of General and Tra		<u> </u>	
	urse Intended Learning Outcomes (CILOs) in		aching strategies/methods to	Methods of
	General and Transferable Skills		be used	assessment
After	completing this course, students will be able to:		f-learning by preparing	-Written exam
14			y and presentations	-Practical exam
d1-	Communicate effectively with logistic and	•	nputer and faculty library)	-Oral exam
	working teams and scientifically discuss in scientific manner in scientific discussions and		ientific visits	- Report assignments
	meetings.		scussions ssignments	DiscussionNote performance
d2-	Develops scientific and professional	- AS	signments	- Note performance
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	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			

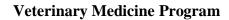
IV. Course Content:

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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
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 controlVaccines types	2	4
	Number of We	eks /and Units Per Sem	nester	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

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Faculty Of Veterinary Medicine

Veterinary Medicine Program









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
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			14	28

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
- -Quizzes
- Report assignments
- Discussion

VI. Schedule of Assessment Tasks for Students During the Semester:					
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes (CILOs

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Center & Quality
Assurance
Ass. Prof. Dr. Huda Al-

Ass. Prof. Dr. Huda Al-Emad

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Veterinary Medicine Program









					symbols)
1	Participation, quizzes and assignments	2-14	10	10%	a1, a2, b1, b2 c1, c2
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. L	VIII. Learning Resource (MLA style or APA style)S:				
1- Re	equired 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- Re	ecommended Readings and Reference Materials				
	1- Objective Type Questions and Answers in Veterinary Immunology. (2008). (n.p.): Scientific Publishers (India).				
	2- Gershwin, L. (2017). Case Studies in Veterinary Immunology. United States: CRC Press.				
3- Es	3- Essential References				

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

4- Electronic Materials and Web Sites etc.

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Veterinary Medicine Program









	https://www.journals.elsevier.com/veterinary-immunology-and-immunopathology				
5- (5- Other Learning Material:				
	- https://www.oie.int/scientific-expertise/veterinary-products/diagnostic-tests/				

	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: 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. 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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Faculty Of Veterinary Medicine

Veterinary Medicine Program









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. ((I. Course Identification and General Information:						
1-	Course Title:	Veterinary Immunology					
2-	Course Number & Code:	MI351					
	Credit hours:		C.I	1		Total	
3-		Th.	Seminar	Pr.	F. Tr.	TOLAT	
		2	-	1		3	
4-	Study level/year at which this course is offered:	Third Year – First Semester					
5-	Pre -requisite (if any):	PH242, PH243					
6-	Co –requisite (if any):	None					
7-	Program (s) in which the course is offered	Bachelor Veterinary Medicine					
8-	Language of teaching the course:	English					
9-	System of Study:	Regular / Semesters					
10-	Mode of delivery:	Lecturers, presentations, tutorials, practical laboratory works					
11-	Location of teaching the course:	Faculty of Veterinary Medicine building					

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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.
- 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

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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
5	Acquired Immunity • Antigens • Humoral immunity • Cell mediated immunity	9,10,11	6

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Faculty Of Veterinary Medicine

Veterinary Medicine Program









6	Hypersensitivity Leading to the second secon	12,13	4
U	Hypersensitivity 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			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			

XV. Teaching strategies of the course:

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Faculty Of Veterinary Medicine

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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
- -Ouizzes
- 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.

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No.	Type of Assessment Tasks	Week Due	Mark	Proportion of Final Assessment
1	Participation, quizzes and assignments	2-14	10	10%
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-and-immunopathology https://www.oie.int/scientific-expertise/veterinary-products/diagnostic-tests/

IX. C	IX. Course Policies:				
1	Class Attendance:				
	 MANDATORY TO ATTEND ALL COURSE LECTURES 				
2	Tardy:				
	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				

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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:
	 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. 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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