

## Specification for infectious diseases of equine, camel & pets course 2025/2026

### 1-Basic information

1.	Course title	infectious diseases (infectious diseases of equine, camel & pets)							
2.	Course code	508 (A) I							
3.	Department offering the course	Animal medicine							
4.	Number of hours	Theoretical	3	Practical	3	Other	0	Total	6
5.	Course Type	√ <b>Obligatory</b> <b>Elective</b>							
6.	Level	5 <sup>th</sup> year							
7.	Semester	First semester							
8.	Academic program	Bachelor Veterinary medicine (BVM)							
9.	Faculty	Faculty of Veterinary medicine							
10.	University	Benha University							
11.	Name of course coordinator	Prof. dr. Abd Elfattah Monged							
12.	Course Specification Approval Date	Faculty council/ 27-8-2025							
13.	Course Specification Approval (Attach the decision/minutes of the department /committee/council ....)	Department council/							

### 2-Course overview

- **Course contents written in the program bylaw:**  
Bacterial diseases of equine, viral diseases of equine , parasitic diseases of equine, bacterial diseases of camel, viral diseases of camel, parasitic diseases of camel, bacterial disease of pets , viral diseases of pets and parasitic diseases of pets.  
Clinical examination of equine, camel & pets. sampling and laboratory investigation of field allergic diagnosis, chemotherapy and vaccine and vaccination.

### 3- Intended learning outcomes of the course (ILOs):

	NARS ILOS		Course ILOS	
	Code	Text	Code	Text
<b>Knowledge and understanding</b>	<b>2.10.</b>	Toxicology and forensic medicine, animal medicine, theriogenology and veterinary surgery.	<b>a1</b>	Identify the nature of infectious diseases of large ruminants (cattle, buffaloes and camels) infectious diseases.
			<b>a2</b>	Define the various infectious etiological determinants and their pathogenesis
			<b>a3</b>	Mention specific epidemiological pattern of all animals infectious diseases
			<b>a4</b>	Describe different clinical manifestations and macroscopic pathological lesions
	<b>2.11.</b>	The most appropriate diagnosis and differential diagnosis of animals, poultry and fish diseases	<b>a5</b>	Summarize the most appropriate aids in diagnosis and differential diagnosis of the diseases
			<b>a6</b>	Approach the ideal therapy and accurate measures for control of all infectious diseases
<b>Intellectual skills</b>	<b>4.3.</b>	Inculcate a rigorous approach to problem identification and solving.	<b>b1</b>	Asses the skills of appropriate moment to take samples for diagnosis.
			<b>b2</b>	Analyze the appropriate tools for diagnosis and judge the skills of reading and interpretation the results.
	<b>4.4.</b>	Proficiently secure diagnostic reasoning, develop problem lists and differential diagnosis in order to deductively and critically reach the most appropriate solution (s) and management of the addressed clinical problems	<b>b3</b>	Enhance the ability to differentiate between infectious diseases and using chemotherapeutic agents of choice.
			<b>b4</b>	Create the ability to take a final decision in dealing with infectious disease epidemic and solving the field problems
<b>Practical</b>	<b>3.3.</b>	Obtain the history of the case whether it is of an individual animal or a group of animals	<b>c1</b>	Obtain a history of animal cases (either individual or in herd (taking in the clinic.
	<b>3.5.</b>	Appropriately select and interpret findings of the common clinical and laboratory diagnostic	<b>c2</b>	Perform clinical examination and do collections of samples for laboratory diagnosis.

		procedures to reach and adopt the most convenient therapeutic and manage mental approach	c3	Use different diagnostic tools in diagnosis of infectious diseases (Field one) and interpret the common clinical and laboratory diagnostic procedures.
			c4	Perform differentiation between infectious diseases.
	3.9.	Conduct evidence-based problem-solving of field-presented problems tasks.	c5	Manage and control the epidemics and solve the field problem in relation to animal and public health aspect
			C6	Write a report about animal biosecurity
			c7	Use the early warning system for early diagnosis of infectious diseases.
			c8	Treat the epidemiological information of OIE and other global animal health organization in diseases diagnosis & control
			c9	Provide emergency care to all species of animals
	3.13.	Minimize the risk of contamination, cross infection and predisposing factors of diseases.	c10	Pronounce the risk of contamination, cross infection and predisposing factors for diseases
			c11	Conduct a correct contact with relevant departments and other intended to reach a final correct diagnosis
<b>Transferable skills</b>	5.1.	Work under pressure and / or contradictory conditions.	d1	Work under pressure during lab sessions.
	5.2.	Function in a multidisciplinary team.	d2	Work in a team during the diagnosis process.
	5.3.	Communicate appropriately verbally and nonverbally	d3	Cooperate with other veterinary hospitals, clinics and units in the field.
	5.5.	Utilize computer and internet skills	d4	Searching skill and Self-learning during lecture related to his research project.

#### 4- Teaching and learning methods

Lectures	√	Discussion & seminar (self-learning)	√	Practical	√
Presentation & movies	√	Problem solving	√	Brain storming	√
Others	Field training				

**- Course contents:**

Number of the Week	Scientific content of the course (Course Topics)	Expected number of the Learning Hours				
		Total Weekly hours	Theoretical teaching (lectures/disc ussion groups/ .....)	Training (Practical/ Clinical/ .....)	Self-learning (Tasks/ Assignments/ Projects/ ...)	Other
W1	Bacterial diseases of horses	6	3	0		0
	Clinical exam. of equine		0	3		0
W2	Bacterial diseases of horses	6	3	0		0
	Clinical exam. of equine		0	3		0
W3	Viral diseases of horses	6	3	0	Formative quiz(self- learning)	0
	Clinical exam. of equine		0	3		0
W4	Viral diseases of horses	6	3	0		0
	Clinical exam. of equine		0	3		0
W5	Parasitic diseases of horses	6	3	0		0
	Sampling & Laboratory investigations		0	3		0
W6	Bacterial diseases of foals	6	3	0	Formative quiz(self- learning)	0
	Sampling & Laboratory investigations		0	3		0
W7	Semester works and Mid-term exam					
W8	Viral diseases of foals	6	3	0		0
	Parasitic diseases of foals					
	Field allergic diagnosis		0	3		0
W9	Bacterial diseases of camels	6	3	0		0
	Clinical exam. of camels		0	3		0
W10	Viral diseases of camels	6	3	0	Formative quiz(self- learning)	0
	Clinical exam. of camels		0	3		0
W11	Parasitic diseases of camels	6	3	0		0

	Clinical exam. of camels		0	3		0
W12	Bacterial diseases of canine	6	3	0		0
	Clinical exam. of canine		0	3		0
W13	Viral diseases of canine	6	3	0	Formative quiz(self-learning)	0
	Chemotherapy		0	3		0
W14	Parasitic diseases of canine	6	3	0		0
	Vaccine & vaccination		0	3		0
W15	Practical exam					

## 5- Assessment timing and grading:

### a- Assessment methods (summative and formative)

1. **Formative assessment:** including (weekly quizzes, homework assignments and surveys).
2. **Summative assessment** including (quizzes, class activates, Mid-term exam, practical exam, oral exams and final written exams).

### b- Assessment schedule and weight

Assessment method	Timing	Grade	Percent
Mid-term exam	7 <sup>th</sup> week	15	15%
Formative assessment	Throughout semester	-	-
Practical exam	15 <sup>th</sup> week	20	20%
oral exam	End of semester	15	15%
Written exam	End of semester	50	50%
Total		100	100

## 6- Learning resources and supportive facilities:

Learning resources	Main reference	Student handbook
	Essential books (text books)	<ul style="list-style-type: none"> <li>• Pierre - Charles Lefevre (2010) Infectious and Parasitic Diseases of Livestock.</li> </ul>
	Periodicals, Web sites, . . . etc	<ul style="list-style-type: none"> <li>• Journal of Animal Science.</li> <li>• Research on Veterinary Science</li> <li>• Journal of American Veterinary Medical Association</li> <li>• American Journal of Veterinary Research</li> <li>• Preventive veterinary Medicine</li> <li>• Benha veterinary medical journal</li> <li>• OIE, FAO, WHO.</li> </ul>

		<ul style="list-style-type: none"> <li>• www.ekb.eg</li> </ul>
	<b>Learning platform</b>	Thinqi
<b>Supportive Facilities</b>	<b>Devices &amp; instruments</b>	<ul style="list-style-type: none"> <li>• Teaching hall (data show, white board).</li> <li>• Equipped laboratory of veterinary medical diagnosis (Medical stethoscope and thermometer-microscope -Ultrasonography- Electrocardiograph (ECG)).</li> <li>• Samples of veterinary drug.</li> <li>• Veterinary hospital</li> <li>• Educational farm for conducting the clinical examination of animals.</li> <li>• Central laboratory.</li> </ul>

### Matrices:

#### **A- Content and ILOs matrix:**

<b>Topic</b>	<b>A) Knowledge and understanding</b>	<b>B) Intellectual skills</b>	<b>C) Professional and practical skills</b>	<b>D) General and transferable skills</b>
Bacterial diseases of horses	a1,a2,a3	b1,b2,b3,b4	c1,c2,c3,c4,c6,c7,c9,c11	d1,d2,d3
Viral diseases of horses	a1,a2,a3	b1,b2,b3,b4	c1,c2,c3,c4,c6,c7,c9,c11	d1,d2,d3
Parasitic diseases of horses	a1,a2,a3	b1,b2,b3,b4	c1,c2,c3,c4,c6,c7,c9,c11	d1,d2,d3
Bacterial diseases of foals	a1,a2	b1,b2,b3,b4	c1,c2,c3,c4,c6,c7	d1,d2,d3
Viral diseases of foals	a1,a2	b1,b2,b4	c1,c2,c3,c4,c6,c7	d1,d2,d3
Parasitic diseases of foals	a1,a2	b1,b2, b4	c1,c2,c3,c4,c6,c7	d1,d2,d3
Bacterial diseases of camels	a1,a2,a3	b1,b2,b3,b4	c1,c2,c3,c4,c6,c7,c9,c11	d1,d2,d3
Viral diseases of camels	a1,a2,a3	b1,b2,b3,b4	c1,c2,c3,c4,c6,c7,c9,c11	d1,d2,d3
Parasitic diseases of camels	a1,a2,a3	b1,b2,b3	c1,c2,c3,c4,c6,c7,c9,c11	d1,d2,d3
Bacterial diseases of canine	a1,a2,a3	b1,b2,b3	c1,c2,c3,c4,c6, c11	d1,d2,d3
Viral diseases of canine	a1,a2,a3	b1,b2,b3,b4	c1,c2,c3,c4,c6, c11	d1,d2,d3
Parasitic diseases of canine	a1,a2,a3	b1,b2,b3,b4	c1,c2,c3,c4,c6	d1,d2,d4

Clinical exam. of equine	a4	b3,b4	c5,c6,c7,c8,c9,c10,c11	d1,d2,d4
Clinical exam. of camels	a4	b3,b4	c5,c6,c7,c8,c9,c10,c11	d1,d2,d3
Clinical exam. of canine	a4	b3,b4	c5,c6,c7,c8,c9,c10,c11	d1,d2,d4
Sampling & Laboratory investigations	a5	b3	c5,c6,c7,c8,c9,c10,c11	d1,d2,d4
Field allergic diagnosis	a5	b3	c5,c6,c7,c8,c9,c10,c11	d1,d2,d4
Chemotherapy	a6	b3	c5,c6,c7,c8,c9,c10,c11	d1,d2,d4
Vaccine & vaccination	a6	b4	c5,c6,c7,c8,c9,c10,c11	d1,d2,d3

### B- Teaching and learning methods and ILOs matrix:

Course ILOs		Teaching and Learning methods						
		L	P&M	D&S	P(TPL)	Ps	Bs	FTP
Knowledge & understanding	a1	√	√	√			√	
	a2	√	√	√			√	
	a3	√	√	√			√	
	a4	√	√	√			√	
	a5	√	√	√			√	
	a6	√	√	√			√	
Intellectual skills	b1	√	√	√		√	√	√
	b2	√	√	√		√	√	√
	b3	√	√	√		√	√	√
	b4	√	√	√		√	√	√
Professional and practical skills	c1		√	√	√	√		√
	c2		√	√	√	√		√
	c3		√	√	√	√		√
	c4		√	√	√	√		√
	c5		√	√	√	√		√
	c6		√	√	√	√		√
	c7		√	√	√	√		√
	c8		√	√	√	√		√
	c9		√	√	√	√		√
	c10		√	√	√	√		√
	c11		√	√	√	√		√
General skills	d1	√		√		√		√
	d2	√		√	√			√
	d3			√	√			√
	d4		√	√				√

**L:** Lecture, **P&M:** Presentations & Movies, **D&S:** Discussions & Seminars (self-learning), **P(TPL):** Practical, **Ps:** Problem solving, **Bs:** Brain storming, **FTP:** field trip, Training, Project

### C- Assessment methods and ILOs matrix:

Course ILOs		assessment method				
		Formative assessment	Mid-term exam	oral	practical	Written
Knowledge & understanding	a1	√	√	√		√
	a2	√	√	√		√
	a3	√	√	√		√
	a4	√	√	√		√
	a5	√	√	√		√
	a6	√	√	√		√
Intellectual skills	b1	√	√	√		√
	b2	√	√	√		√
	b3	√	√	√		√
	b4	√	√	√		√
Professional and practical skills	c1	√			√	
	c2	√			√	
	c3	√			√	
	c4	√			√	
	c5	√			√	
	c6	√			√	
	c7	√			√	
	c8	√			√	
	c9	√			√	
	c10	√			√	
	c11	√			√	
General skills	d1	√				
	d2	√				
	d3	√		√		
	d4	√				

Name and Signature  
Course Coordinator

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