# Specification for zoonotic diseases course 2025/2026

## 1-Basic information

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|---|---|---|---|---|---|---|---|---|---|
| **1.** | **Course title** | zoonotic diseases | | | | | | | |
| **2.** | **Course code** | **514 (B) II** | | | | | | | |
| **3.** | **Department offering the course** | Zoonoses | | | | | | | |
| **4.** | **Number of hours** | **Theoretical** | **2** | **Practical** | **2** | **Other** | **0** | **Total** | **4** |
| **5.** | **Course Type** | √ **Obligatory** **Elective** | | | | | | | |
| **6.** | **Level** | 5th year | | | | | | | |
| **7.** | **Semester** | Second 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. A LOBNA M.A.SALEM | | | | | | | |
| **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:**
  Protozooses, trematodiases, cestodiases, nematodiasis, arthropods, viruses and mycoses.

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

| | **NARS ILOS** | | **Course ILOS** | |
|---|---|---|---|---|
| | **Code** | **Text** | **Code** | **Text** |
| **Knowledge and Understanding** | **2.9.** | General and specific epidemiological pattern of animal population diseases and the most effective immunization protocols. | **a1** | Describe the basic knowledge about special zoonosis |
| | **2.13.** | Public health, including food hygiene of animal origin and zoonotic diseases that are transmitted from animals to | **a2** | Identify the cause and the mode of transmission zoonotic parasitoses,mycoses and viral diseases. |

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|---|---|---|---|---|
| | | humans. | **a3** | list the methods of prevention and control of zoonotic parasitoses,mycoses and viral diseases. |
| | | | **a4** | Identify the cause , mode of transmission and prevention and control of parasites, mycoses and viral diseases |
| **Intellectual skills** | **4.3.** | Inculcate a rigorous approach to problem identification and solving. | **b1** | Analyze the methods to prevent, control and eradicate zoonotic diseases. |
| | | | **b2** | Correlate between the zoonotic diseases in animals & man. |
| | | | **b3** | Suggest treatment of zoonotic diseases in animals & man |
| **Practical and professional skills** | **3.11.** | Utilize appropriate safety procedures to protect clients and co-workers. | **c1** | Provide more recent advanced and specialized rodenticides |
| | | | **c2** | Apply appropriate safety procedure to protect themselves and attendant from zoonotic diseases. |
| | **3.13.** | Minimize the risk of contamination, cross infection and predisposing factors of diseases. | **c3** | Decontaminate diagnostic materials. |
| | | | **c4** | Diagnose procedures & transparencies of modes of transmission of zoonotic diseases. |
| | | | **c5** | Demonstrate some vaccines |
| | | | **c6** | Implement several strategies for control zoonotic parasitic , mycotic and viral diseases |
| **General and Transferable Skills** | **5.1.** | Work under pressure and / or contradictory conditions | **d1** | Work under pressure during lab sessions |
| | **5.2.** | Function in a multidisciplinary team | **d2** | Collaborate effectively within team |
| | **5.3.** | Communicate appropriately verbally and nonverbally | **d3** | Communicate effectively with lab collage |
| | **5.6.** | Utilize computer and internet skills | **d6** | Utilize computer and internet skills, read paper via internet related to his research project |

| **4- Teaching and learning methods** | | | | | |
|---|---|---|---|---|---|
| **Lectures** | √ | **Discussion & seminar (self-learning)** | √ | **Practical** | √ |
| **Presentation &** | √ | **Problem solving** | √ | **Brain** | √ |

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|---|---|---|---|---|---|
| **movies** | | | | **storming** | |
| **Others** | | | | | |

## - 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/discussion groups/ .....) | Training (Practical/ Clinical/ .....) | Self-learning (Tasks/ Assignments/ Projects/ ...) | Other |
| **W1** | Protozooses 1 | **4** | **2** | **0** | | **0** |
| | Protozooses 1 | | **0** | **2** | | **0** |
| **W2** | Protozooses 2 | **4** | **2** | **0** | | **0** |
| | Protozooses 2 | | **0** | **2** | | **0** |
| **W3** | Protozooses 3 | **4** | **2** | **0** | **Formative quiz(self-learning)** | **0** |
| | Protozooses 3 | | **0** | **2** | | **0** |
| **W4** | Trematodiases 1 | **4** | **2** | **0** | | **0** |
| | Trematodiases 1 | | **0** | **2** | | **0** |
| **W5** | Trematodiases s 2 | **4** | **2** | **0** | | **0** |
| | Trematodiases 2 | | **0** | **2** | | **0** |
| **W6** | Cestodiases 1 | **4** | **2** | **0** | **Formative quiz(self-learning)** | **0** |
| | Cestodiases 1 | | **0** | **2** | | **0** |
| **W7** | **Semester works and Mid-term exam** | | | | | |
| **W8** | Cestodiases 2 | **4** | **2** | **0** | | **0** |
| | Cestodiases 2 | | **0** | **2** | | **0** |
| **W9** | Nematodiasis 1 | **4** | **2** | **0** | **Formative quiz(self-learning)** | **0** |
| | Nematodiasis 1 | | **0** | **2** | | **0** |
| **W10** | Arthropods 1 | **4** | **2** | **0** | | **0** |
| | Arthropods 1 | | **0** | **2** | | **0** |
| **W11** | Viruses 1 | **4** | **2** | **0** | | **0** |
| | Viruses 1 | | **0** | **2** | | **0** |
| **W12** | Viruses 2 | **4** | **2** | **0** | **Formative quiz(self-learning)** | **0** |
| | Viruses 2 | | **0** | **2** | | **0** |

| | | | | | | |
|---|---|---|---|---|---|---|
| **W13** | Mycoses1 | **4** | **2** | **0** | | **0** |
| | Mycoses1 | | **0** | **2** | | **0** |
| **W14** | Mycoses2 | **4** | **2** | **0** | | **0** |
| | Mycoses2 | | **0** | **2** | | **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** | 7th week | 15 | 15% |
| **Formative assessment** | Throughout semester | - | - |
| **Practical exam** | 15th 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)** | • Rolf Bauerfeind (2016) Zoonoses.<br>• Suman Kumari Joshi (2015) Atext Book On Zoonotic Diseases.<br>• S.R.Palmer (2015) Oxford Textbook Of Zoonoses<br>• Scott Weese, Martha B. Fulford (2011) Companion animal zoonoses |
| | **Periodicals, Web sites, . . . etc** | • J American Journal of Veterinary Medical Association<br>• Benha veterinary medical journal<br>• www.OIE.int.org<br>• www.FAO.int.org<br>• www.WHO.int.org<br>• www.arabvet.com<br>• www.ekb.eg |
| | **Learning platform** | Thinqi |
| | **Devices & instruments** | As listing in device guideline |

| | | |
|---|---|---|
| **supportive facilities** | | • Teaching hall (data show, white board).<br>• Zoonotic laboratory<br>• Posters and procures.<br>• Central laboratory |

## Matrices:

### A- Content and ILOs matrix:

| Topic | A) Knowledge and understanding | B) Intellectual skills | C) Professional and practical skills | D) General and transferable skills |
|---|---|---|---|---|
| Protozooses | **a1, a2, a3** | **b1** | **c1, c2, c3** | **d1,d2** |
| Helminthiases | **a1,a2** | **b1, b2, b3** | **c1, c2, c3,c4** | **d1, d3** |
| Cestodiases | **a1,a2, a3** | **b1, b2, b3** | **c1, c2, c3,c4,c5,c6** | **d1, d3, d4** |
| Nematodiasis | **a1,a2, a3** | **b1, b2, b3** | **c1, c2, c3,c4,c5,c6** | **d1, d3,d4** |
| Arthropods | **a1,a2** | **b1, b3** | **c1, c2, c3,c4** | **d1, d3,d4** |
| Viruses | **a1,a2, a3** | **b1, b2, b3** | **c1, c2, c3,c4,c5,c6** | **d1, d3,d4** |
| Mycoses | **a1,a2, a3** | **b1, b2, b3** | **c1, c2, c3, c6** | **d1, d3, d4** |

### 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 | √ | √ | √ | | | √ | |
| Intellectual skills | b1 | √ | √ | √ | | √ | √ | √ |
| | b2 | √ | √ | √ | | √ | √ | √ |
| | b3 | √ | √ | √ | | √ | √ | √ |
| Professional and practical skills | c1 | | √ | √ | √ | √ | | √ |
| | c2 | | √ | √ | √ | √ | | √ |
| | c3 | | √ | √ | √ | √ | | √ |
| | c4 | | √ | √ | √ | √ | | √ |
| | c5 | | √ | √ | √ | √ | | √ |
| | c6 | | √ | √ | √ | √ | | √ |
| 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 | √ | √ | √ | | √ |
| Intellectual skills | b1 | √ | √ | √ | | √ |
| | b2 | √ | √ | √ | | √ |
| | b3 | √ | √ | √ | | √ |
| Professional and practical skills | c1 | √ | | | √ | |
| | c2 | √ | | | √ | |
| | c3 | √ | | | √ | |
| | c4 | √ | | | √ | |
| | c5 | √ | | | √ | |
| | c6 | √ | | | √ | |
| General skills | d1 | √ | | | | |
| | d2 | √ | | | | |
| | d3 | √ | | √ | | |
| | d4 | √ | | | | |

**Name and Signature**
**Course Coordinator**

**Prof. Dr. LOBNA M.A.SALEM**

**Name and Signature**
**Program Coordinator**

**Prof. Dr. Mahmoud Abouelroos**