

Specification for Andrology Course 2025/2026

1-Basic information

| | | | | | | | | |
|---|---------------------------------------|---|-----------|------|-------|---|-------|------|
| Course title | Andrology | | | | | | | |
| Course code | TGA.424 | | | | | | | |
| Department/s participating in delivery of the course | Fourth year | | | | | | | |
| Number of units/credit hours | Theoretical | 1 | Practical | 1(3) | Other | 0 | Total | 2(4) |
| Course Type | √ Obligatory Elective | | | | | | | |
| Academic level at which the course is taught | 4 th year | | | | | | | |
| Semester | Spring | | | | | | | |
| Academic program | Bachelor of Veterinary medicine (BVM) | | | | | | | |
| Faculty | Veterinary medicine | | | | | | | |
| University | Benha University | | | | | | | |
| Name of course coordinator | Dr. Dina Elsayed Mohamed Rashad | | | | | | | |
| Course Specification Approval Date | Faculty council on 27/8/2025 | | | | | | | |
| Course Specification Approval (Attach the decision/minutes of the department /committee/council) | Department council/ 8/7/2025 | | | | | | | |

2-Course overview

- **Course contents written in the program bylaw:**
Reproductive physiology, male sexual behavior. Semen biology, male infertility and sire selection. Diseases causing abortion.

3- Course Learning Outcomes CLOs

| | (NARS) outcomes | | Course outcomes | |
|-----------------------------|-----------------|---|-----------------|--|
| | Code | Text | Code | Text |
| Knowledge and understanding | 2.10 | Toxicology and forensic medicine, animal medicine, theriogenology and veterinary surgery. | a1 | Identify male breeding soundness. |
| | | | a2 | Explain infertility problems. |
| | | | a3 | Familiarize with male reproductive managements |
| Intellectual | 4.3 | Inculcate a rigorous | b1 | Interpret breeding soundness. |

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|--|------------|---|-----------|--|
| skills | | approach to problem identification and solving. | b2 | Manipulation and treatment of infertility problems. |
| | | | b3 | Set up all methods of handling of the male |
| | | | b4 | Assess the male sexual behavior |
| | 4.5 | Remain committed to life – long learning and updating/ upgrading their biochemical sense and clinical skills. | b1 | Interpret breeding soundness. |
| Professional and practical skills | 3.2 | Safely, correctly and humanely restrain animals for examination. | c1 | Examine a male for breeding soundness. |
| | 3.7 | Assess and advise about animal management, nutrition under conditions of health and disease, and reproductive efficiency | c2 | Apply different methods of control an infertility problem at an early stage. |
| | | | c3 | Maximize the male fertilizing capacity |
| | 3.8 | Skillfully and appropriately gain and use new information remain current with the emerging biomedical knowledge and therapeutic options | c2 | Apply different methods of control an infertility problem at an early stage. |
| | 3.9 | Conduct evidence-based problem-solving of field–presented problems tasks | c2 | Apply different methods of control an infertility problem at an early stage. |
| General and transferable skills | 5.1 | Work under pressure and / or contradictory conditions | d1 | Work under pressure during Andrology 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 | Communicate & Cooperate with other colleagues for reaching diagnosis. |
| | 5.5 | Search for new information and technology as well as adopt life–long self-learning ethics | d4 | Search for new information in the field of Andrology. |

4- Teaching and learning methods

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

- Course Schedule:

| Number of the week | Scientific content of the course (Course Topics) | Total Weekly Hours | Theoretical teaching (lectures/discussion groups/.....) | Expected number of the Learning Hours | | |
|--------------------|---|--------------------|--|--|--|-----------------------------|
| | | | | Training (Practical/ Clinical/) | Self-learning (Tasks/ Assignments/ Projects/ ...) | Other (to be determined) |
| W1 | Male reproductive physiology1 | 2(4) | 1 | 1(3) | | 0 |
| W2 | Male reproductive physiology2 | 2(4) | 1 | 1(3) | | 0 |
| W3 | Male sexual behavior1 | 2(4) | 1 | 1(3) | Formative quiz (Self-learning) | 0 |
| W4 | Male sexual behavior2 | 2(4) | 1 | 1(3) | | 0 |
| W5 | Semen biology1 | 2(4) | 1 | 1(3) | | 0 |
| W6 | Impotentia eregenti | 2(4) | 1 | 1(3) | Formative quiz (Self-learning) | 0 |
| W7 | Semester works (one hour exam) | | | | | |
| W8 | Impotentia coeundi | 2(4) | 1 | 1(3) | | 0 |
| W9 | - Impotentia generundi | 2(4) | 1 | 1(3) | | 0 |
| W10 | Diseases causing abortion1 | 2(4) | 1 | 1(3) | Formative quiz (Self-learning) | 0 |
| W11 | Physio-anatomy of male genitalia | 2(4) | 1 | 1(3) | | 0 |
| W12 | Scheme of andrological examination | 2(4) | 1 | 1(3) | | 0 |
| W13 | Clinical exam of the male | 2(4) | 1 | 1(3) | | 0 |
| W14 | Breeding soundness examination | 2(4) | 1 | 1(3) | Formative quiz (Self-learning) | 0 |
| W 15 | Practical exam | | | | | |

5- Methods of students' assessment

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 | Assessment Timing (Week Number) | Marks/ Scores | Percentage |
|---|------------------------------------|---------------|------------|
| Semester work including one hour exam | 7 th week | 10 | 10% |
| Assignments / Project /Portfolio/ Logbook | Throughout semester | | |
| Field training | | | |
| Formative assessment | Throughout semester | - | - |
| Practical exam | 15 th week | 30 | 30% |
| oral exam | End of semester | 10 | 10% |
| Written exam | End of semester | 50 | 50% |
| Total | | 100 | 100% |

6- Learning resources and supportive facilities:

| | | |
|---------------------------|--|---|
| Learning resources | Main reference | Student handbook: • Veterinary Andrology and disease causing abortion, edited by the staff members |
| | Essential books (text books) | <ul style="list-style-type: none"> ▪ Essential books (textbooks) ▪ John Dascanio (2014) Equine Reproductive Procedures. ▪ Wolfgang Jochle (2010) Control of Reproductive Functions in Domestic Animals ▪ David E. Noakes (2009) veterinary reproduction and obstetrics ▪ Course notes. ▪ David E. Noakes (2009) veterinary reproduction and obstetrics. ▪ Current therapy in theriogenology, D.A. Morrow |
| | Periodicals, Web sites, . . . etc | <ul style="list-style-type: none"> ▪ J. Animal reproduction & Fertility. ▪ J. Fertility & Sterility. ▪ www.arabvet.com ▪ www.ekb.eg |
| | Learning platform | Thinqi |
| Supportive | Devices & | As listing in device guideline |

| | | |
|-------------------|--------------------|---|
| facilities | instruments | <ul style="list-style-type: none"> ▪ Equipped teaching hall. ▪ Equipped Laboratory. ▪ Faculty teaching farm ▪ Faculty teaching hospital ▪ Artificial insemination unit |
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Matrices:

A- Content and ILOs matrix:

| Topic | A) Knowledge and understanding | B) Intellectual skills | C) Professional skills | D) General and transferable skills |
|------------------------------------|---|---------------------------------------|---------------------------------------|---|
| Male reproductive physiology | a1, a2 | b1, b2 | c1, c2 | d1, d2 |
| Male sexual behavior | a1, a3 | b1, b2, b3 | c1, c2, c3 | d1, d2, d3, d4 |
| Semen biology | a1, a2, a3 | b1, b2, b3, b4 | c1, c2, c3 | d1, d4 |
| Impotentia eregenti | a1, a2, a3 | b1, b2, b3 | c1, c2, c3 | d1, d2, d3, d4 |
| Impotentia coeundi | a1, a3 | b1, b2, b3 | c1, c2, c3 | d1, d2, d3, d4 |
| Impotentia generundi | a1, a2 | b1, b3 | c1, c2, c3 | d1, d2 |
| Diseases causing abortion | a1, a2, a3 | b1, b2, b3 | c1, c2, c3 | d3, d4 |
| Physio-anatomy of male genitalia | a1, a2, a3 | b1, b2, b3, b4 | c1, c2, c3 | d1, d2, d3, d4 |
| Scheme of andrological examination | a1, a2, a3 | b1, b2, b3 | c1, c2, c3 | d1, d2 |
| Clinical exam of the male | a1, a2, a3 | b1, b2, b3, b4 | c1, c2, c3 | d1, d2, d3 |
| Breeding soundness examination | a1, a2, a3 | b1, b2, b3 | c1, c2, c3 | d1, d2, d3 |

B- Teaching and learning methods and ILOs matrix:

| ILOs | | Teaching and Learning methods | | | | | | |
|------------------------------------|-----------|--------------------------------------|----------------|----------------|---------------|-----------|-----------|------------|
| | | L | P&M | D&S | P(TPL) | Ps | Bs | FTP |
| Knowledge and understanding | a1 | √ | √ | √ | | | √ | |
| | a2 | √ | √ | √ | | | √ | |

| | | | | | | | |
|-----------------------------------|----|---|---|---|---|---|---|
| | a3 | √ | √ | √ | | √ | |
| Intellectual skills | b1 | √ | √ | √ | √ | √ | √ |
| | b2 | √ | √ | √ | √ | √ | √ |
| | b3 | √ | √ | √ | √ | √ | √ |
| | b4 | √ | √ | √ | √ | √ | √ |
| Professional and practical skills | c1 | | √ | √ | √ | | √ |
| | c2 | | √ | √ | √ | | √ |
| | c3 | | √ | √ | √ | | √ |
| 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:

| ILOs | | assessment method | | | | |
|-----------------------------------|----|----------------------|--------------------------------|------|-----------|---------|
| | | Formative assessment | Semester works (one hour exam) | Oral | Practical | Written |
| Knowledge and understanding | a1 | √ | √ | √ | | √ |
| | a2 | √ | √ | √ | | √ |
| | a3 | √ | √ | √ | | √ |
| Intellectual skills | b1 | √ | √ | √ | | √ |
| | b2 | √ | √ | √ | | √ |
| | b3 | √ | √ | √ | | √ |
| | b4 | √ | √ | √ | | √ |
| Professional and practical skills | c1 | √ | | √ | √ | |
| | c2 | √ | | √ | √ | |
| | c3 | √ | | √ | √ | |
| General skills | d1 | √ | √ | | | |
| | d2 | √ | √ | | | |
| | d3 | √ | √ | √ | | |
| | d4 | √ | √ | | | |

Name and Signature
Course Coordinator

Prof. dr. Dina Elsayed Mohamed

Name and Signature
Program Coordinator

Prof. Dr. Mahmoud Abouelroos

Rashad