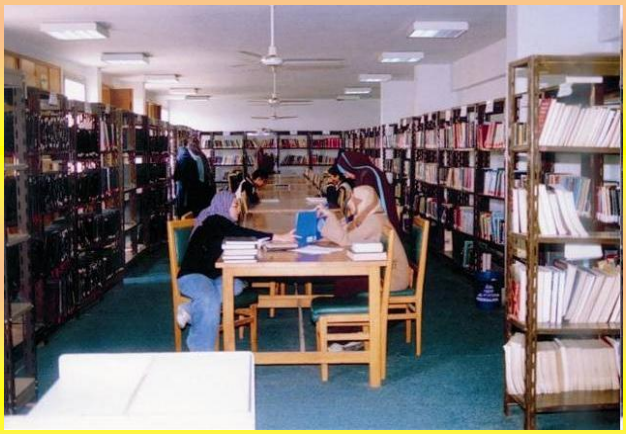
# قائمة المعايير الاكاديمية القومية

# لكلية الطب البيطرى

# جامعة بنـها

# برنـامج بكالوريوس العلوم الطبية البيطريه

# National Academic Reference Standards



## I. National Academic Reference Standards

### 1. Attributes of the Graduates of Veterinary Medicine

The graduate must be able to:

1.1. Demonstrate the proper application of the professional knowledge and skills with positive attitudes and behavior towards better health and productivity of livestock, poultry and fish resources.

1.2. Be committed to continuous enhancement, coping with the most recent effective and efficient performance standards of the veterinary profession, and gaining community confidence.

1.3. Apply research concepts and technologies in different fields of veterinary sciences.

1.4. Express proper evaluation capacity and uncover curiosity.

1.5. Consider life-long learning skills.

1.6. Apply international ethical and legal frame of medical practice-code

1.7. Show satisfactory interpersonal and communication skills confirming the sensitive role of the veterinarian in society and disseminating the awareness of maintaining animal and human health.

### 2. Knowledge and Understanding

Graduates of Veterinary Medical Program must acquire the following knowledge and understanding :

2.1. Basic sciences of biology, chemistry, biophysics, genetics, biostatics, computer science and veterinary terminology.

2.2. Basics of normal behavior, management, breeding, veterinary economics and health maintenance of

domestic animals, laboratory animals, poultry, and fish.

2.3. Normal macro, and micro-structure of body tissues, organs and systems of animals, birds and fish.

2.4. Physiological and biochemical bases of different organ functions, metabolic processes and homeostasis.

2.5. Principle of welfare, production and health maintenance of food producing and pet animals, sporting animals, wildlife , poultry and fish

2.6. Basics of nutrition and feeding practices of healthy and diseased animals.

2.7. Various causes of animal diseases, their pathogenesis, macro- and microscopic pathological lesions, and laboratory diagnosis.

2.8. Veterinary medications, uses, marketing, the impact of drug residues on human health and quality control of pharmaceutical practices.

2.9. General and specific epidemiological pattern of animal population diseases and the most effective immunization protocols.

2.10. Toxicology and forensic medicine, animal medicine, theriogenology and veterinary surgery.

2.11. The most appropriate diagnosis and differential diagnosis of animals, poultry and fish diseases

2.12. The accurate measurements of veterinary quarantine.

2.13. Public health, including food hygiene of animal origin and zoonotic diseases that are transmitted from animals to humans.

2.14. Basics of law and ethical codes relevant to animals and food hygiene.

2.15. Basics of social sciences, communication, and human rights.

## 3. Practical and professional skills

Graduates must attain the capacity to:

3.1. Employ all the gained knowledge and understanding in clinical practice in a skillful pattern.

3.2. Safely, correctly and humanely restrain animals for examination.

3.3. Obtain the history of the case whether it is of an individual animal or a group of animals.

3.4. Perform clinical examination of diseased cases and collect relevant samples.

3.5. Appropriately select and interpret findings of the common clinical and laboratory diagnostic procedures to reach and adopt the most convenient therapeutic and manage mental approach.

3.6. Write a report about hygiene and safety of food of animal origin for human consumption.

3.7. Assess and advise about animal management, nutrition under conditions of health and disease, and reproductive efficiency.

3.8. Skillfully and appropriately gain and use new information remain current with the emerging biomedical knowledge and therapeutic options.

3.9. Conduct evidence-based problem-solving of field–presented problems tasks.

3.10. Provide emergency care to all species of animals.

3.11. Utilize appropriate safety procedures to protect clients and co-workers.

3.12. Correctly deal with procedures related to food hygiene, public health issues, notifiable diseases and disposal of animal wastes.

3.13. Minimize the risk of contamination, cross infection and predisposing factors of diseases.

## 4. Intellectual skills

Graduates must have the ability to:

4.1. Foster critical thinking and scientific curiosity.

4.2. Assess and criticize, at the fundamental level, how data are derived.

4.3. Inculcate a rigorous approach to problem identification and solving.

4.4. 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.

4.5. Remain committed to life – long learning and updating / upgrading their biochemical sense and clinical skills.

**5: General and Transferable Skills**

Graduates must have the ability to:

5.1. Work under pressure and / or contradictory conditions.
5.2. Function in a multidisciplinary team.
5.3. Communicate appropriately verbally and non-verbally.
5.4. Organize and control tasks and resources.
5.5. Search for new information and technology as well as adopt life–long self- learning ethics.
5.6. Utilize computer and internet skills.

## II.Curriculum Structure

The percentages mentioned in the following table for each area of study are just a guide for the faculty and not obligatory to follow:

| Subjects | Range | Sciences characterization |
|---|---|---|
| Basic sciences | 22– 28 | Biology, Biophysics, Chemistry, Biostatics, Animal husbandry ,Embryology, Histology, Physiology, Anatomy. |
| Pre-clinical sciences | 17 – 23 | Genetics, Microbiology, Nutrition, Mycology, Immunology, Pharmacology, Parasitology, Virology, Pathology, & Milk and Meat hygiene. |
| Clinical sciences | 40 – 44 | Epidemiology and pathogenesis, Internal medicine, Infectious diseases, Forensic medicine and toxicology, Poultry and fish diseases, Hygiene, Surgery, Zoonoses, Theriogenology and Clinical investigation, and treatment of animals. |
| Training | 2 –6 | Field Trips and clinical investigations. |
| Computing and ICT | 1-3 | Computer sciences, and application IT. |
| Humanities | 2– 4 | English, economics, human rights and social studies |
| Discretionary subjects | 4–8 | Allowed to each faculty to be used based on its mission. |