**Distinct Program in Veterinary drugs and medicinal Preparations**

**Introduction and program features:**

1. This program is characterized by ensuring the graduation of qualified and distinguished veterinarians in one of the branches of life that concern all members of society at the local and international levels, namely medicines and veterinary medical supplies.
2. The study in the faculties of veterinary medicine covers many specializations, but under the current circumstances, the veterinarian is graduated as a general practitioner familiar with the various fields of veterinary medicine and has considerable experience in the field of medicines and veterinary medical preparations, which are later refined in the form of specialized studies in this field. Therefore, the Faculty of Veterinary Medicine, Cairo University sought to establish this distinguished program in medicines and veterinary medical preparations, which gives the veterinarian many skills to work in the field of medicines and veterinary medical preparations in terms of prescribing the appropriate medicine for the diseased condition as well as the use of those veterinary medicines, feed additives and vaccines used in poultry and animal diseases Therefore, the distinguished veterinarian becomes one of the main pillars in the bodies specialized in veterinary medical preparations, scientific offices of companies and veterinary pharmaceutical factories that need to prepare files for veterinary medicines for the stages of registration, writing medical bulletins, and studying the effectiveness of veterinary medicines before trading in the markets.
3. In view of the labor market’s need for such a graduate, a selection of professors specialized in this field will teach in this program in the faculties of veterinary medicine, agriculture, pharmacy, law and trade. Some expertise and some of the ministries and agencies concerned, research centers and laboratories of the Export and Import Authority may be sought.

**Program mission:**

The college is committed to graduating a veterinarian who is familiar with veterinary medical sciences and who is distinguished in the field of veterinary medicines and medical preparations locally and regionally.

**Program Goals:**

It aims to introduce new fields of clinical veterinary pharmacology in accordance with international standards in the Bachelor of Veterinary Medical Sciences program and to place graduates in competition with international standards, as well as to develop graduates' skills with appropriate training in specialized sites internally and externally.

**Targeted educational outcomes from teaching the program:**

**a- General Skills** After successful completion of the program, the graduate should be able to:

* Take a veterinary clinical history of individual animals
* Take a veterinary clinical history of herd animals
* Dealing with and controlling animals
* Perform a complete clinical examination of the animal

**b-** **Knowledge and understanding:** After successful completion of the program, the graduate should be able to:

**Handling emergency situations**

- First aid for bleeding

- First aid for wounds

- First Aid Difficulty breathing

- First aid for eye and ear injuries

- Loss of consciousness treatment

- First aid for burns

- First aid for damage to organs and organs

**Nutritional status, laboratory examination**

- Evaluation and correction of the nutritional status of the animal

- Advising the client on the principles of proper education and nutrition

- Collecting, preserving and transporting samples to the laboratory

- Performing normal laboratory tests

- Interpretation and evaluation of laboratory results

**Animal disease diagnosis, certification work**

* The use of radiography
* Use of ultrasound
* Follow the correct procedures after diagnosing and reporting diseases
* Correct medical certificate issuance
* Understand all veterinary courses that qualify him to practice the profession of veterinary medicine.
* Advise on the use of appropriate treatment
* Access to appropriate sources of licensed medicines. Prescribe and dispense medications correctly and responsibly in accordance with relevant legislation
* Ensure that medicines are sourced and stored safely or disposed of
* Understand the procedures for using veterinary medicines and preparations in different field conditions.
* Understand methods for measuring the effectiveness of veterinary medicines.
* Understand the methods of measuring the concentration of veterinary drugs in the blood and tissues of poultry and animals to determine the withdrawal period in diseased cases.
* Full acquaintance with the pharmaceutical forms of veterinary drugs, feed additives and disinfectants used in farms.
* Cooperation with veterinary authorities in the field of optimal use of veterinary medicines.
* Understand the importance of drug residues.
* Understand the different preservation techniques for preserving veterinary medicines and preparations, especially after the veterinary products are opened in the farms.
* Reducing the risks of contamination, infection and the accumulation of germs in buildings and veterinary farms
* Euthanasia procedure, ante-mortem examination
* When euthanasia is necessary, it must be carried out in a humane manner
* Show the kindness and feelings of animal owners
* Advise on the safe disposal of a dead body
* Carry out a basic gross postmortem examination, details of tissue and sample history and storage

**c-** **Mental Skills:** After successful completion of the program, the graduate should be able to:

* Dealing with different types of animals and poultry in terms of nutrition-breeding - disease diagnosis and treatment methods.
* Evaluate the effectiveness of veterinary medicines used and determine their suitability.
* Evaluation of field reports for examining a specific drug or preparation in the veterinary field in various pathological conditions.
* Explanation of the relationship between economics and health, as well as oversight and legislation in this field.
* Randomly estimating the health risks associated with the use of veterinary drugs in terms of withdrawal period.

**d- Professional Skills:** After successful completion of the program, the graduate should be able to:

* Medical and surgical examination of the animal and its treatment
* Perform the laboratory techniques necessary to judge the safety of the animals.
* Ensure the quality of food products of animal origin.
* Detection of drug residues in food products of animal origin.
* Exercising the necessary laboratory procedures to indicate the safety and quality of pharmaceutical products.
* The ability to choose the appropriate medication for the disease condition and measure its effectiveness.
* Deciding to avoid drug interactions

**Study system in the program:**

* The study is based on credit hours, and teaching hours are calculated as follows: One credit hour is equivalent to one theoretical hour or 2 or 3 practical hours during one semester at different levels according to the attached tables.
* Study in English except for courses that require teaching in Arabic.
* The academic year is divided into two semesters, the duration of each semester is 15 weeks. The first semester begins in the third week of September and the second semester begins after the mid-year vacation, in addition to an intensive 6-week summer semester starting on the first Saturday of July.
* Enrollment for any academic level takes place within two weeks before the start of any semester, after fulfilling the registration requirements and paying fees, and the summer semester is optional for students.
* **Study Duration:** Five years (five levels of study), and a student who continues to study courses in the summer semester can finish studying before the prescribed period by one semester at most.
* Rules for stopping registration, dismissal and re-enrollment according to the Universities Organizing Law and the decisions of the Cairo University Council.

**Bachelor's Degree Requirements:**

* To obtain a bachelor's degree, success in
* All compulsory courses (67) courses equivalent to (182) credit hours.
* Elective courses (5 courses) equivalent to 8 credit hours.
* Passing the training courses in attendance, training, and an examination, and accepting the graduation thesis.
* The general grade in the bachelor’s degree is calculated on the basis of the cumulative grade for the grades obtained by the student in all the compulsory and elective courses he studied.

**Registration Terms**

Semester courses (first or second) are registered with a minimum of 12 credit hours and a maximum of 25 credit hours. The summer semester can also be registered with a maximum of 12 credit hours. The student applies for course registration if he meets the registration requirements for each course, the most important of which is success in the eligible courses. Consultation with the academic advisor, on the specific dates, timing of registration and its rules, which are issued by the College Council annually and published in the Student’s Handbook. Registration is not considered final until after paying the educational service dues scheduled for each semester.

**Terms of modification, cancellation and suspension of registration**

The student has the right to change courses in which he was registered with others within two weeks of the start of study in both the first and second semesters, taking into account the conditions of registration. The student has the right to stop enrollment or withdraw from a course within 3 weeks at most, and the value of the financial dues will not be refunded after that. As for the summer semester, the student has the right to withdraw from the courses within two weeks at most, without prejudice to the minimum registration hours.