



Tikrit University

College of Veterinary Medicine

Day One

Competences

(Log Book)



First Edition

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Introduction

Day One Competencies are the minimum standards and skills required for a graduate to deal medically with the first medical case that is dealt with. This program is concerned with describing the knowledge, skills, and attributes required of post-graduate veterinary students to ensure that they are prepared for their first role in the profession and are safe to practice independently. This program relies primarily on the practical experience that the student gains during his studies at the college.

Upon completion of academic studies, a commitment to continuous professional development becomes imperative within the chosen professional domain. Certain roles may mandate postgraduate training and the acquisition of additional formal qualifications. A recent graduate who has successfully demonstrated Day One competencies is expected to autonomously execute entry-level tasks and fulfill responsibilities within the veterinary profession. They should exhibit confidence in independently practicing veterinary medicine at a primary care level, demonstrating discernment in seeking guidance from more experienced colleagues when deemed necessary. Anticipated is the need for new graduates to allocate additional time for certain procedures, with the provision of accessible support and guidance from senior colleagues.

The Day One Competencies Logbook for students serves as a documented record substantiating the specific knowledge and skills acquired throughout the entire training period. The accurate completion and endorsement by instructors hinge upon the students' demonstrated achievements and performance across various contexts, encompassing theoretical and practical training, assigned duties, summer practical training, as well as both in-class and extramural educational experiences.

The Tikrit University Faculty of Veterinary Medicine is responsible for ensuring its students attain Day One Competencies, ensuring their preparedness to assume professional roles upon graduation. In this context, students receive guidance from practicing veterinarians and engage in practical training, which serves as a valuable adjunct in owning their skills through hands-on experience and even acquiring additional competencies.

Objectives of the one day competencies program

1. Understanding and applying the principles of clinical application and practice of veterinary medicine based on evidence, not an assumption.
2. Understanding of the ethical and legal responsibilities of a veterinarian about animals, clients, society, and the environment.
3. Demonstrating the ability to deal with incomplete veterinary medical and pathological information.
4. Using the practical abilities acquired during the study period to develop and improve animal health and safety.
5. Demonstrating the ability to deal with emergencies and adapt to emergency changes during examination, diagnosis, or treatment.
6. Learning how to seek advice, assistance, and support from colleagues in the profession.
7. Demonstrate the ability to deal safely and professionally with animals and the ability to examine and take samples and models from all animals.
8. Obtaining accurate and professional medical information for the animal to build a clear picture of the pathogen in preparation for final diagnosis and treatment.
9. Ability to perform a complete clinical examination and demonstrate the ability to make clinical decisions without hesitation.
10. Establish appropriate treatment plans and administer treatment to animals within available resources.
11. Collection, preservation, and transportation of specimens, then selecting appropriate diagnostic tests and interpreting test results.
12. Applying biosecurity principles, including sterilization of equipment and disinfection of clothing.
13. understanding methods of euthanasia and its implementation, with sympathy to the feelings of its owners.
14. Conducting food and feed inspection and post-mortem examination of food-producing animals.

Animal management- subject code:(VEH1103, VEH1107)

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
1.	Knowledge of the breeds of Iraqi farm animals (cows, camels, sheep, goats, buffalos)	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			
2.	Knowledge of the parturition period in farm and small animals	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			
3.	Knowledge of farm animal housing and housing design	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			
4.	Knowledge of the methods of farm animals restrain	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			
5.	Knowledge of the methods of equine restrain	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			
6.	Dentation in horses, cattle, sheep	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			
7.	General examination and behavior of animals	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			
8.	Equine Shoeing	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			

Poultry management- subject code: (VEH1108)

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
1.	General anatomy of poultry	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			
2.	Design of poultry houses	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			
3.	Poultry environmental requirements	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			
4.	Tours within poultry houses	<input type="checkbox"/> Practical			
5.	Classification of poultry vaccines	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			
6.	Routs of poultry vaccination	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			
7.	Composition of poultry feeding	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			

Anatomy- subject code: (VEA1101, VEA1106)

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
1.	Classification of bones and joints	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			
2.	Names of joints	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			
3.	Equine skeletal system	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			
4.	Ruminant skeletal system	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			
5.	Anatomy of hoof	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			
6.	Muscles of the head and neck of farm animals	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			
7.	Muscles of the chest and forelimbs of farm animals	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			
8.	Muscles of the abdomen and hind limbs of farm animals	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			

Chemical safety and security- subject code: (VEM1106)

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
1.	Overview of chemical safety and security	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			
2.	Potential chemical health problems	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			
3.	Knowledge of Reactive hazardous substances	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			
4.	Serious chemical accidents	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			
5.	Emergency management in the laboratory	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			
6.	Storage of chemicals	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			
7.	Chemical waste management and disposal	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			

Biology- subject code: (VED1106, VED1106)

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
1.	Knowledge of parts of light microscope and handling	<input type="checkbox"/> Practical			
2.	Cell structures and composition	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			
3.	Cell divisions	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Seminar			

Anatomy - subject codes: (VEA2101, VEA2107)

NO.	Skill, manipulation, subject	Method of assessment	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Knowledge of the main anatomical features of different animal species	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension				
2	Knowledge of the topographic anatomy of animals	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension				
3	Knowledge of main approaches to specific organs and regions in Animals	<input type="checkbox"/> Practical <input type="checkbox"/> Visual Comprehension				
4	Comparative topographic analysis of various animal species	<input type="checkbox"/> Practical <input type="checkbox"/> Visual Comprehension				
		<input type="checkbox"/> Practical <input type="checkbox"/> Visual Comprehension				

Histology - subject codes:

N O	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	Done under instructor's supervision
1. 2. 1	Basic knowledge of animal body's histomorphometric structure- tissue types, genesis of specific organs	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
3. 4. 2	Elaboration of a histopathological preparation	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
5. 6. 3	Knowledge of the histology of skin	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
7. 8. 4	Knowledge of the histology of bone	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
9.	Knowledge of the histology of GIT	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
10.	Knowledge of the histology of the eye	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
11.	Knowledge of the histology of neurons and nerve cells	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
12.	Knowledge of the histology of urinary system	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			

Animal physiology - subject codes:

No.	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	Done under instructor's supervision
13.	Knowledge of main physiological processes in animals	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
14.	Skills for work with specialized software for registration, processing and analysis of main physiological parameters like (ECG software)	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			

15.	Main concepts and skills in ECG recording and analysis in healthy animals	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
16.	Determination the physiology of rumination	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
17.	Determination the physiology of gastric secretion	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
18.	Knowlagent blood sample collection from animals	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
19.	Knowlagent physiology of urination	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
20.	Knowlagent physiology of dehydration	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
21.	Knowlagent physiology of the liver and pancreas	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
22.	Knowlagent physiology of muscle contractions	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
23.	Knowlagent physiology of kidneys	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			

Biochemistry - subject codes:

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time Period	Done under instructor's supervision
1	Application of theoretical knowledge in understanding biochemical processes	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
2	Mastering of existing methods with application in medicine, veterinary medicine, ecology and agrarian science	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
3	Mastering of skills related to: biochemical analyses of blood samples, chromatographic techniques, spectrophotometric techniques, modern analytical methods (e.g. HPLC, spectroscopy, urinalysis etc.)	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
4	Skills for analysis and interpretation of obtained results	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			

Nutrition - subject codes ()

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	Done under instructor's supervision
1	Knowledge of main groups of animal feeds and fodders	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
2	Composition of diets for various animal species and animal categories	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
3	Knowledge of the main principles of dietetic feeding	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
	Knowledge the name of different animal diet (green and concentrated diet)	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			

Pharmacology and pharmacy - subject codes:

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
9.	Prescription writing with choice of drugs, drug form for a specific disease and calculation of individual patient(s) dose	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
10.	Knowledge, skills and competence for responsible and reasonable use of veterinary drugs for treatment of animals and ensuring safety along the food chain and for the environment	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
11.	Access to appropriate sources of data about licensed drugs	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
12.	Knowledge of different routes of administration	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
13.	Knowledge and reporting supposed adverse effects.	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
14.	Knowledge mechanism of action of broad-spectrum antibiotics	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
15.	Knowledge of the mechanism of action of diuretic	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
16.	Knowledge of the mechanism of action of injectable anesthesia and analgesia	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
17.	Knowledge of the different types of fluid therapy	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
18.					

Veterinary microbiology - subject codes:

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
19.	Acquisition of skills and habits for safe work in the microbiological Laboratory	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
20.	Work with light microscope (dry objective and oil immersion microscopy).	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
21.	Elaboration of microscopic preparations	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
22.	Staining microscopic preparations	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
23.	Preparation and sterilisation of laboratory glassware, nutrient media and biological material	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
24.	Inoculation and reinoculation of bacterial pathogenic samples in liquid and solid nutrient media	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
25.	Isolation of pure cultures	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
26.	Determination of total microbial counts per volume unit	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
27.	Determination of microbial sensitivity to chemotherapeutics (diffusion method and serial dilution method)	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
28.	Acquaintance with agglutination, precipitation reactions, ELISA	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			

29.	Collection, storage, and sending of pathological specimens for bacteriological and mycological examination	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
30.					

clinical pathology - subject code:

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
1.	Skills for performing necropsy and knowledge of necropsy protocols in the main farm animal and poultry species include: ruminants, equines, , dogs, cats, and birds, with diagnostic record	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
2.	Collection and embedding of material for histological examination from different organs and tissues of dead animals for diagnostic purposes	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
3.	Knowledge of the typical pathognomonic postmortem changes in different infectious and non-infectious diseases for diagnostic purposes	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
1.	Knowledge the mechanism of inflammation	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
2.	Knowledge of the mechanism of hematoma	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
3.	Knowledge the mechanism of necrosis and gangrene	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
4.	Monitoring the Pathological cases in the veterinary hospital	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			
5.	Practical Steps of Tissue processing for histopathological observation	<input type="checkbox"/> Practical only			

General pathology- subject code:

Parasitology- subject code:

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
1.	methods of parasitic collection, preservation, and diagnosis	<input type="checkbox"/> Practical only			
2.	Diagnosis and general life cycle of trematode nematode, protozoa, Arthropoda.	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			
3.	Direct student collection of fecal samples from animals for lab. diagnosis	<input type="checkbox"/> Practical only			
4.	Blood parasite samples	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			
5.	Flotation techniques for helminth eggs detection	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			
6.	Sedimentation techniques for helminth eggs Detection	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			
7.	Flotation techniques for detection of coccidia	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			
8.	Staining techniques for detection of cryptosporidia, giardia and amoebae	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			
9.	Dehelminthisation drugs	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			
10.	Differentiation of ticks from insects	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			
11.	Examination for scabies mites: collection of material, processing, observation and interpretation of findings	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			
12.	Identification of parasitic insects	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			

Clinic-subject code:

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
1.	Restraint of different animal species	<input type="checkbox"/> Practical only <input type="checkbox"/> Visual			
2.	body temperature measurement	<input type="checkbox"/> Practical only			
3.	Skin elasticity measurement	<input type="checkbox"/> Practical only			
4.	Palpation of superficial lymph nodes	<input type="checkbox"/> Practical only			
5.	Heart palpation	<input type="checkbox"/> Practical only			
6.	Heart percussion	<input type="checkbox"/> Practical only			
7.	Heart auscultation	<input type="checkbox"/> Practical only			
8.	Inspection of the nasal mucosa	<input type="checkbox"/> Practical only			
9.	Venous pressure measurement	<input type="checkbox"/> Practical only			
10.	Venous pressure measurement	<input type="checkbox"/> Practical only			
11.	Respiratory rate examination	<input type="checkbox"/> Practical only			
12.	Cough provocation	<input type="checkbox"/> Practical only			
13.	Lung auscultation	<input type="checkbox"/> Practical only			

Theriogenology-subject code: VEC4111,VEC4122

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
1	Andrological examination of a male breeder	<input type="checkbox"/> Practical <input type="checkbox"/> observation <input type="checkbox"/> Comprehension			
2.	Sampling and macroscopic evaluation of semen	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			
3.	Microscopic evaluation of semen in native preparation	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			
4.	Artificial insemination of large ruminants and small ruminants	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			
5.	Vaginal examination in large ruminants	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			
6.	Vaginal drug Delivery	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			
7.	Vaginal lavage	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			
8.	Clinical udder Examination	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			
9.	Physical examination of newborns	<input type="checkbox"/> Practical only			
10.	Rectal palpation	<input type="checkbox"/> Practical only			

Surgery-subject code: VEC4115, VEC4125

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
1.	Taking clear and accurate surgical disease history from a pet patient	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			
2.	Participation in sterilization of various surgical materials	<input type="checkbox"/> Practical <input type="checkbox"/> Observative			
3.	Preparation of the operating field	<input type="checkbox"/> Practical only			
4.	Preparation of surgical team prior to operation	<input type="checkbox"/> Practical only			
5.	Suture of the skin by different suture patterns	<input type="checkbox"/> Practical only			
6.	Wound dressing	<input type="checkbox"/> Practical only			
7.	Making an immobilization bandage	<input type="checkbox"/> Practical only			
8.	Determination of patient's anesthetic- risk	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			
9.	Sedation of a pet/ farm animal/equid	<input type="checkbox"/> Practical <input type="checkbox"/> Observative			
10.	Regional anaesthesia in large ruminants	<input type="checkbox"/> Practical <input type="checkbox"/> Observative			
11.	Intubation of a dog or cat	<input type="checkbox"/> Practical only			
12.	Anaesthesia monito- ring or anaesthetic record filling	<input type="checkbox"/> Practical <input type="checkbox"/> Observative			
13.	Protocol of Euthanasia	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> comprehension			
14.	Complete orthopaedic examination of a	<input type="checkbox"/> Practical <input type="checkbox"/> Observative			

	pet				
15.	Radiological examination	<input type="checkbox"/> Practical <input type="checkbox"/> Observative			
16.	Urinary bladder catheterization of a pet	<input type="checkbox"/> Practical <input type="checkbox"/> Observative			
17.	Collection of urine from a pet/farm animal for analysis using an appropriate method	<input type="checkbox"/> Practical <input type="checkbox"/> Observative			
18.	Recognise when euthanasia is appropriate and perform it humanely and safely	<input type="checkbox"/> Practical <input type="checkbox"/> Observative			

**Epidemiology, infectious diseases and preventive medicine –subject
code: VEC4117, VEC4127**

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
1.	Collection of blood samples from large & small ruminants for diagnosis of infectious diseases	<input type="checkbox"/> Practical only <input type="checkbox"/> Observative			
2.	Primary processing and conservation of blood samples for diagnosis of infectious diseases	<input type="checkbox"/> Practical only			
3.	Collection, storage, sending and transportation of samples for diagnosis bacteriological, virological and mycological studies from live animals, organ specimens and the environment	<input type="checkbox"/> Practical only			
4.	Tuberculin test in large ruminants	<input type="checkbox"/> Practical only			
5.	Development of disinfection programs in livestock pre-mises and animal hospitals. Planning, organization, implementation and reporting disinfection Activities	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			

6.	Development of programs for harmful rodents control in livestock premises and animal hospitals. Planning, organisation, implementation and reporting deratisation activities	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			
7.	Creation of safe conditions for examination and treatment of animals with respect to protection of veterinarians and support staff from Zoonoses	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			
8.	Proper use and disposal of personal protective equipment	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			
9.	Acquaintance with and performance of rapid field tests for diagnosis of infectious diseases, collection of appropriate samples and interpretation of results	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			
10.	Recognition of epidemiological features and clinical signs of notifiable and/or zoonotic infectious	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			

	diseases				
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Internal medicine- subject codes: VEC4110,VEC4128

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
14.	Preparation of a blood smear	<input type="checkbox"/> Practical only			
15.	Mouth opening	<input type="checkbox"/> Practical only			
16.	Stomach tube placement	<input type="checkbox"/> Practical only			
17.	Stomach/rumen lavage	<input type="checkbox"/> Practical <input type="checkbox"/> Observative			
18.	Rumen palpation/ auscultation	<input type="checkbox"/> Practical only			
19.	Rumenocentesis	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			
20.	Placement of temporary and permanent rumen magnet cage	<input type="checkbox"/> Practical <input type="checkbox"/> Observative			
21.	Tests for foreign body detection in cow	<input type="checkbox"/> Practical <input type="checkbox"/> Observative			
22.	Liver percussion	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			
23.	Urinary bladder lavage	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			
24.	Cystocentesis	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			
25.	Urine conservation and preparation for laboratory analysis	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			
26.	Intraruminal drug delivery	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			

Poultry disease- subject codes:VED4114,VEC4124

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
1.	Anti-mortem inspection	<input type="checkbox"/> Practical only			
2.	Euthanasia	<input type="checkbox"/> Practical only			
3.	Post-mortem autopsy	<input type="checkbox"/> Practical only			
4.	Rout of therapy administration	<input type="checkbox"/> Practical <input type="checkbox"/> Observative			
5.	Sampling	<input type="checkbox"/> Practical only			
6.	Preservation of samples	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			
7.	HA test	<input type="checkbox"/> Practical <input type="checkbox"/> Observative			
8.	HI test	<input type="checkbox"/> Practical <input type="checkbox"/> Observative			
9.	Chicken embryo inoculation	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			
10.	Antibiotic sensitivity test	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			
11.	ELISA test	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			
12.	PCR test	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			
13.	Phylogenic tree analysis	<input type="checkbox"/> Practical <input type="checkbox"/> Observative <input type="checkbox"/> Comprehension			

Internal medicine- subject codes: VEC5113, VEC5120

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
1	Indirect determination of somatic cell counts using a rapid mastitis test	<input type="checkbox"/> Practical only			
2.	Collection of sterile milk samples for microbiological examination	<input type="checkbox"/> Practical only			

3.	Processing of a preparation for cytological diagnosis	<input type="checkbox"/> Practical only			
4.	Application of eye drops and ointments	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			
5.	Complete dental examination of a pet	<input type="checkbox"/> Practical only			
6.	Cleansing of the external ear canal and local drug application	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
7.	Otoscopy	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			

Surgery-subject code:VEC5115

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
19.	Knowledge of Suture materials and suturing	<input type="checkbox"/> Practical only			
20.	Knowledge of different Suture patterns	<input type="checkbox"/> Practical only			
21.	Knowledge control of bleeding	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			
22.	Electrocautery technique	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			
23.	Wound debridement and management	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			

24.	Puncture or incision of abscess/cyst/hematoma	<input type="checkbox"/>	Practical only			
25.	Tooth extraction	<input type="checkbox"/> <input type="checkbox"/>	Practical Visual			
26.	Participation in castration surgery	<input type="checkbox"/> <input type="checkbox"/>	Practical Visual			
27.	Decornuation	<input type="checkbox"/> <input type="checkbox"/>	Practical Visual			
28.	Surgical approach for GIT organs	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Practical Visual Comprehension			

Theriogenology-subject code: VEC5111

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
31.	Rectal examination and detection of uterine and ovarian parameters in large Ruminants	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
32.	Obstetric examination	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
33.	Fetal viability determination	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
34.	Obstetrics help through extraction	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
35.	Fetotomy instruments	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
36.	Caesarean section	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
37.	Foetotomy procedure	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
38.	Obstetric help through drug/hormone administration	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
39.	Repositioning of caudal dislocation of genital organs	<input type="checkbox"/> Practical only			

Meat hygiene-subject code:VEH5121

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
14.	Use One Health principles in veterinary practice, promoting the health and safety of people and sustainability of the environment.	<input type="checkbox"/> Practical only			
15.	develop, evaluate, recommend, and practise protocols for biosecurity, biosafety and infection prevention and control (IPC)	<input type="checkbox"/> Practical only			
16.	Perform antemortem and postmortem inspection of animals and make appropriate decisions to protect the food chain and animal welfare at the point of slaughter	<input type="checkbox"/> Practical only			
17.	Apply veterinary elements of food safety standards and practices throughout the production chain, including on the farm and during food processing.	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			

18.		<input type="checkbox"/> Practical only			
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Fish disease-subject code:VED5110

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
19.	Anatomy of fish	<input type="checkbox"/> Practical only			
20.	Blood sample collection	<input type="checkbox"/> Practical only			
21.	Blood circulation of fish	<input type="checkbox"/> Practical only			
22.	Parasitic manifestations of fish	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			

Internal medicine- subject codes: VEC5120

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
1					
2.	Detection of helminthic larvae in the skin	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			
3.	Detection of helminthic larvae in fecal samples	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
4.	Detection of helminthic larvae in blood samples	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
5.	Preparation and staining of blood smears according to Giemsa stain	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
6.	Diagnostics of stationary ectoparasites	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
7.	Specific techniques for drug administration in animals	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
8.	Measurement of rectal the temperature of domestic animals	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			

Surgery-subject code:VEC5123

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
29.	Surgical approaches for urinary tract	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
30.	Rumenotomy procedure	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			
31.	Cesarean section	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			
32.	Surgical detection of TRP	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
33.	Plane and contrast radiography	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			
34.	Surgical enucleation of the eye	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> comprehension			
35.	Surgical approaches and treatment of abomasal displacement	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
36.	Mechanisms of General anesthetic technique	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
37.	Inhalation anesthesia	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
38.	Animal premedication prior to surgery	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
39.	Surgical affections of udder and teat	<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			
40.		<input type="checkbox"/> Practical <input type="checkbox"/> Visual <input type="checkbox"/> Comprehension			

Theriogenology-subject code:VEC5117

1. No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
2.	Repositioning of caudal dislocation of genital organs	<input type="checkbox"/> Practical only			
3.	Anatomy of male and female genital system in ruminants	<input type="checkbox"/> Practical only			
4.	Anatomy of male and female genital system in small animals	<input type="checkbox"/> Practical only			
5.	Hormone regulation of the estrus cycle in ruminants	<input type="checkbox"/> Practical only			
6.	Hormone regulation of estrus cycle in small animals	<input type="checkbox"/> Practical only			
7.	Clinical cusses of repeat estrus in cow	<input type="checkbox"/> Practical only			
8.	Artificial insemination method in cow	<input type="checkbox"/> Practical only			
9.	Preparation of semen sample	<input type="checkbox"/> Practical only			

Milk hygiene-subject code:VEH5114

No	Skill, manipulation, subject	Method of assessment	Course (s)	Date, time period	instructor's supervision
23.	Factors related to milk spoilage	<input type="checkbox"/> Practical only			
24.	milk quality control	<input type="checkbox"/> Practical only			
25.	The constituents of milk	<input type="checkbox"/> Practical only			
26.	How to ensure good quality milk	<input type="checkbox"/> Practical <input type="checkbox"/> Visual			
27.	Advice to give to farmers	<input type="checkbox"/> Practical only			
28.	Sources of milk contamination at the farm	<input type="checkbox"/> Practical only			
29.	Advice to give to farmers on avoiding contamination	<input type="checkbox"/> Practical only			
30.	Hygienic milk handling	<input type="checkbox"/> Practical only			
31.	Practical exercises in the field	<input type="checkbox"/> Practical only			