

Course Description Form

1. Course Name:	
Epidemiology	
2. Course Code:	
VEC4120	
3. Semester / Year:	
2023-2024	
4. Description Preparation Date:	
14/2/2024	
5. Available Attendance Forms:	
4 rd stage students	
6. Number of Credit Hours (Total) / Number of Units (Total)	
15 hr. / 1	
7. Course administrator's name (mention all, if more than one name)	
Name: Assisstant Lec. Almas Mohammed Ali	
8. Course Objectives	
Course Objectives	<ol style="list-style-type: none"> 1- Teaching the student the concept of epidemiological diseases principles 2- Knowledge, understanding and comprehension of the scientific subject curriculum 3- To classify the theoretical for the development of learning and teaching in the appropriate manner with the veterinary clinic 4- Identifying the pathogenicity of the diseases to the animal's body. 5 - Identify clinical signs , diagnosis, treatment and control of diseases.
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none"> • Implementation methods: a teacher who listens to the learners while they sit in fr of him, and they listen to him, and he must have the ability to indoctrinate and abs information.

- Conversational methods: the teacher must possess a high scientific ability and attendees have information on the topic of the discussion.
- The discovery method: the teacher observes the activities of the learners who taking examples individually or collectively.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 st	1	Introduction <ul style="list-style-type: none"> • Definitions. • Objectives of epidemiology and preventive medicine. • Uses of epidemiology. Types of epidemiology		1hr.theory	daily test
2 nd	1	Occurrence of disease <ul style="list-style-type: none"> • Basic concepts of disease quantification • Measures of morbidity. <ul style="list-style-type: none"> • Prevalence. • Incidence. • Relationship between prevalence and incidence. Measures of mortality.		1hr.theory	daily test
3 rd +4 th	1	Diseases Transmission and Determinants <ul style="list-style-type: none"> • Mode of disease transmission. • Susceptibility. • Clinical vs. subclinical diseases. • Endemic, epidemic, pandemic, and outbreaks. Diseases determinants		1hr.theory	Homework

5th	1	The economics of animal diseases		1hr.theory	Homework
6th	1	Data collection and management		1hr.theory	daily test
7th	1	Sampling and sample size <ul style="list-style-type: none"> ● Sampling methods. Sample size importance and calculation		1hr.theory	daily test
8th	1	Mid-term exam.			Theoretical (exams + reports) (5)
9th+10th	1	Study Design <ul style="list-style-type: none"> ● Prospective vs. Retrospective ● Observational studies: <ul style="list-style-type: none"> ● Descriptive. ● Cross-sectional. ● Case-control. ● Cohort. ● Experimental studies <ul style="list-style-type: none"> ● Field trials. Randomized controlled trials (clinical trials).		1hr.theory	daily test
11 th +12 th	1	Measures of association <ul style="list-style-type: none"> ● Absolute risk. ● Relative risk. ● Relative odds (odds ratio). ● Attributable risk. ● Hazard ratio. ● Association vs. causation Bias, confounding, interaction.		1hr.theory	Homework

13th	1	Survey and Surveillance		1hr.theory	daily test
14th	1	Control and Eradication of Diseases		1hr.theory	Homework
15	1	Assessing validity and reliability of diagnostic tests (serological epidemiology)		1hr.theory	daily test

11. Course Evaluation

- 1) Daily and monthly (theoretical) tests.
- 2) Discussing scientific reports
- 3) Questions and answers
- 4) Semester exam (40) and final exam (60)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1- an introduction to veterinary epidemiology by mark Stevenson . 2- veterinary epidemiology (3 rd . ed) Michael thrusfield .
Main references (sources)	Constable , D.; Hinchcliff, K.W.; Stanley , and Grunberg, D. W. (2017). Veterinary Medicine, A Text book of the diseases Cattle, Horse , Sheep, Pigs, Goat, and , Do 11 thEdn, Elsevier,B.A, Company Lt China,P:1904-1994.
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	Wikipedia