UNIVERSITY of NICOSIA

Year 3

Course Title	**Diagnostic skills development I**				
Course Code	**Vet-301**				
Course Type	Required				
Level	Undergraduate				
Year / Semester	Year 3/ Semester 1 (Fall)				
Teacher's Name	**Course Lead:** **Contributor:**				
ECTS	6	Small group teaching / week	3	Laboratories / week	2
Course Purpose and Objectives	The main objectives of the course are: • This course will introduce students to the basic clinical skills required for veterinary clinical examination. The students will learn to perform a full clinical examination of dog, cat, cow and a horse. • The students will learn the principles and importance of taking a history from the animal's owner • The students will learn the principles of data gathering and data interpretation • The students will learn to perform a full clinical examination of various animal species • The course will also focus on What is a Diagnosis? What is NOT a diagnosis. The Diagnostic Process and establishing the diagnosis. • The students will learn the principles of making a Diagnosis. Clinical Problem-Solving Methods. The students will understand that for the practicing clinician most daily activities revolve around, or are based upon, deciding what is wrong with the animal (diagnosis) and deciding what to do about it (clinical decisions) • Introduction to anesthesia- Students will learn about the equipment and monitoring to equip the student for assisting with anesthesia during their EMS				

Year 3

Learning Outcomes	The following list provides the learning objectives that will be covered in the lectures, lab practical sessions and tutorials of each week: Week 1 **LOBs covered during lectures and practicals with live animals and instruments:** 1. History Taking 2. Patient data 3. Present history 4. Past history 5. Management history 6. Environmental history Week 2 **LOBs covered during lectures and practicals:** 7. Methods of Restraint- physical, chemical, verbal/moral 8. Restraints of the equine 9. Restraint of the cattle 10. Restraint of sheep and goat 11. Restraint of the dog and cat Week 3 **LOBs covered during lectures and practicals:** 12. Physical examination methods 13. General inspection 14. Palpation 15. Percussion 16. Modified percussion 17. Auscultation Week 4 **LOBs covered during lectures and practicals:** 18. Clinical Examination of the Patient 19. Temperature taking 20. Pulse taking 21. Respiration taking 22. Capillary Refill Time (CRT) 23. Physical body condition scoring

Week 5

LOBs covered during lectures and practicals:

24. Clinical Examinations of the head and neck region
25. Examination of skin and appendages
26. Examinations of the thoracic cavity
27. Physical examination of the thorax
28. Regional anatomy of the heart -locate the heart area

Week 6

LOBs covered during lectures and practicals:

29. Clinical examinations of the abdominal and associated digestive organs
30. Rectal examination of the internal abdominal structures
31. Clinical Examinations of the Feces
32. Examination of the urogenital system
33. Examinations of the nervous system
34. Examinations of the musculoskeletal system
35. Examination of superficial lymph nodes

Week 7

LOBs covered during lectures:

36. What is a diagnosis
37. What is not a diagnosis
38. Examining clinical record against necropsy reports
39. Examining death certificates against necropsy reports
40. Is There a Problem with the Accuracy of Clinical Diagnoses?

Week 8

LOBs covered during lectures:

41. Components of the diagnostic process
42. Data gathering
43. Data interpretation
44. Establishing the diagnosis
45. Discuss various sources of error
46. Discuss does our diagnostic ability change with time?
47. Discuss is there something special about medical diagnostics- or is it all simply problem solving?
48. Discuss are there different diagnostic methods?
49. Discuss what is it that allows experts to succeed at clinical reasoning?

Week 9

LOBs covered during lectures:

	Anesthesia 50. Introduction to veterinary anesthesia 51. Anesthetic Machines and Breathing Systems 52. Medical gases 53. Pressure gauges, regulators and flow meters 54. Vaporisers 55. Breathing systems Week 10 **LOBs covered during lectures** 56. Airway Management and Ventilation 57. Endotracheal intubation 58. Endotracheal tubes 59. Nasotracheal intubation 60. Oxygen cage 61. Ventilators Week 11 **LOBs covered during lectures and practicals:** 62. Monitoring Anesthetized Patients 63. Physical signs of anesthetic depth 64. Monitoring Perioperative Pain 65. Pain management 66. Monitoring analgesia 67. Euthanaesia Week 12 **LOBs covered during lectures:** 68. Cardiovascular Monitoring 69. Pulmonary Monitoring Breathing Rate, Rhythm, Nature, and Effort 70. Hemoglobin saturation with oxygen 71. Temperature Monitoring

Prerequisites	None	Required	None
Course Content	• Taking a history • Clinical examination • Creating and maintaining a clinical record, including legal requirements • Problem-oriented approach • Critical thinking • Working with incomplete data • Making a diagnosis • Anesthesia- equipment and monitoring • Pain management • Euthanaesia		

Year 3

	• Case examples (supervised self-directed learning where students would be given some basic information and would have to work through the case creating a problem list, differential diagnosis for each problem and a diagnostic plan. They receive results for each test requested and work through the case under supervision • Physics of Radiation therapy and Artificial Intelligence
Teaching Methodology	Lecture based teaching (minor) small group teaching (major) and practicals
Bibliography	1. Small Animal Medical Differential Diagnosis THOMPSON 2. Clinical Reasoning in Small Animal Practice 3. Veterinary Clinical Skills Manual 4. Practical Manual on Veterinary Clinical Diagnostic Approach 5. Making a Diagnosis: Clinical Problem Solving Methods, Principles and Theory 6. Differential diagnosis in small animal medicine, Gough 7. Veterinary Anesthesia and Analgesia,4th,Lumb and jones
Assessment	Clinical placements attendance and professional behaviour (30%), Objective Structured Clinical Examination (mini-OSCE) (70%).
Language	English