



Course Descriptor
VTMD423 Veterinary Diagnostic Imaging

Proposed Academic Year	2021 - 22	Last Reviewed Academic Year	
Course Code	VTMD423	Course Title	Veterinary Diagnostic Imaging
Credit hours	2	Level of study	Undergraduate
College / Centre	CAHS	Department	VTMD
Co-requisites		Pre-requisites	VTMD423

1. COURSE OUTLINE

The course provides students introduction to radiographic, fluoroscopic, mobile and tomographic equipment requirements and design. The content also provides a basic knowledge of quality control and to provide entry-level radiography students with principles related to computed tomography (CT) imaging. Routine and emergency patient care procedures are described, as well as infection control procedures using standard precautions. The role of the radiographer in patient education is identified.

2. AIMS

This course aims to provide the students of a detailed knowledge of the basic principles of radiation physics, radiography, radiation safety, radiology, ultrasonography, computed tomography, and magnetic resonance imaging in veterinary medicine; emphasis on the normal radiographic anatomy of the canine, feline, equine, and bovine using selected case examples.

3. LEARNING OUTCOMES, TEACHING, LEARNING and ASSESSMENT METHODS

Learning Outcomes (Definitive)	Teaching and Learning methods (Indicative)	Assessment (Indicative)
Upon successful completion of this course, students will be able to:		
1. Evaluate radiographic technique charts and review diagnostic quality of radiographic views.	Power point presentations, lab work, discussion	Work sheets and written examinations
2. Explain and operate special radiographic techniques for the digestive and urinary systems, including the upper GI series, intravenous pyelogram and retrograde cystogram.	Power point presentations, lab work, discussion	Work sheets and written examinations
3. Discuss the fundamentals of ultrasonography and other specialized imaging techniques including CT, MRI, nuclear scintigraphy	Power point presentations, lab work, discussion	Work sheets and written examinations



Course Descriptor VTMD423 Veterinary Diagnostic Imaging

and infrared thermography.		
4. Operate diagnostic radiography of the horse and discuss application to other large animal species.	Power point presentations, lab work, discussion	Work sheets and written examinations

4. ASSESSMENT WEIGHTING

Assessment	Percentage of final mark (%)
Assignment	20%
Quizzes	20%
Mid-term Examination	20%
Final Examination	40%
TOTAL	100%

5. ACHIEVING A PASS

Students will achieve **2** credit hours for this course by passing **ALL** of the course assessments [*Quizzes, Mid-term, Final Examination*]* and achieving a **minimum overall score of xx%**

NB *Ensure that ALL learning outcomes are taken into account

6. COURSE CONTENT (Indicative)

1. Radiography	
2. Computed radiography	
3. Ultrasonography	
4. Magnetic resonance imaging (MRI)	
5. Advance Imaging Techniques <ul style="list-style-type: none"> • Fluoroscopy • Nuclear scintigraphy 	
TOTAL HOURS	30
Plus RECOMMENDED INDEPENDENT STUDY HOURS	15
TOTAL COURSE HOURS	45

7. RECOMMENDED REFERENCES

Core text/s:

Charles S. Farrow (Editor): Veterinary Diagnostic Imaging, 1st Ed, Elsevier Co, London. (2005).



Course Descriptor
VTMD423 Veterinary Diagnostic Imaging

Library + online resources:

Open Educational Resources: