

Course Unit	Medical Nursing and Rehabilitation			Field of study	Veterinary Science		
Bachelor in	Veterinary Nursing			School	School of Agriculture		
Academic Year	2023/2024	Year of study	3	Level	1-3	ECTS credits	6.0
Туре	Semestral	Semester	1	Code	9085-783-3103-00-23		
Workload (hours)	162	Contact hours	T - TP	- PL - T	- s -	E - OT	- 0 -
T - Lectures; TP - Lectures and problem-solving; PL - Problem-solving, project or laboratory; TC - Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other							
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Name(s) of lecturer(s) Hélder Miranda Pires Quintas, Lina Maria Rodrigues Freire

Learning outcomes and competences

- At the end of the course unit the learner is expected to be able to:

 1. Assistance of medical, health, breeding, surgery and other procedures.

 2. Identificação of surgery equipments, instruments and materials. Sterilization techniques. Surgery assistance.

 3. Surgery site preparation, suture and suture removal

 4. Skin injuries management, banding, casting and splinting.

 5. Animal Physiotherapy: Assessment, Treatment and Rehabilitation of Animals

Prerequisites

- Before the course unit the learner is expected to be able to:
 1. Anatomy, physiology and histology.
 2. Pharmacology, anesthesia, samples collection, processing and lab delivery.
 3. Animal behaviour and welfare infectious, contagious and parasitary diseases.

Course contents

The role / function of veterinary nurses in animal pathologies Canine Infectious Disease Feline Infectious Disease Gastrointestinal Tract Diseases Liver and pancreatic diseases. Urinary tract diseases. Eye diseases Endocrine Diseases. Banding, casting. Splinting. Animal Physiotherapy.

Course contents (extended version)

- The role/function of the Veterinary Nurse in animal pathologies
 Technician Duties and Required Skills

 - Diagnosis, Immunity
- Diagnosis, Immunity
 Factors Involved in Infectious Disease
 Common Terminology Necessary for Understanding Pathology
 2. Canine Infectious Disease and vaccination plans
 Canine Distemper Virus (CDV) or Hard Pad Disease
 Canine Parvovirus Type 2 (CPV-2)
 Canine Adenovirus Type 1 (CAV-1) or Infectious Canine Hepatitis (ICH)
 Canine Infectious Tracheobronchitis or Kennel Cough
 Canine Influenza Virus (CIV) or Dog Flu
 Rabies

- Rabies

 3. Feline Infectious Disease and vaccination plans
 Feline Panleukopenia (FPV),
 Feline Leukemia Virus (FeLV)
 Feline Inmunodeficiency Virus (FIV)
 Feline Infectious Peritonitis (FIP or FIPV)

 4. Gastrointestinal Tract Disease
 Oral Cavity Periodontal Disease or Periodontitis Papilloma
- Oral Cavity Periodontal Disease or Periodontitis Papilloma
 Esophagus Megaesophagus Esophageal Obstructions Vascular Ring Anomaly Gastroesophageal Reflux
 Stomach Acute Gastritis Gastric Ulcers
 Gastrointestinal Obstructions Pyloric Stenosis or Chronic
 Hypertrophic Gastropathy Gastric Dilatation and Volvulus (GDV)
 5. Lower gastrointestinal tract Diseases
 Intussusception
 Linear Foreign Bodies
 Inflammatory Bowel Disease
 Megacolon Intestinal Neoplasia
 6. Liver and pancreatic diseases.
 Cholangiohepatitis

- - Liver and pancreatic diseases.

 Cholangiohepatitis

 Feline Hepatic Lipidosis (FHL) or Fatty Liver Disease

 Portal Systemic Shunt (PSS)

 Hepatic Neoplasia

 Acute Pancreatitis

 Chronic Pancreatitis

 Exocrine Pancreatic Insufficiency or Pancreatic Maldigestion

 Pancreatic Neoplasia

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 7. Urinary Tract Diseases
 Bacterial Cystitis or Urinary Tract Infection
 Pyelonephritis
 Urolithiasis (Urinary Calculi or Urinary Stones)
 Urinary Obstruction or Blocked Tom (Feline)
 Feline Urinary Tract Disease (FLUTD)
 Acute Renal Failure (ARF)
 Chronic Kidney Disease (CKD), or Chronic Renal Disease
 8. Reproductive Disease
 Vaginitis, Pyometra, Dystocia, Mastitis, Mammary Neoplasia,
 Prostate neoplasia, Testicular Disease, Male Reproductive neoplasia
 9. Casting and splinting
 Fracture fixing materiais and application techniques.
 10. Physiotherapy and Rehabilitation
 Functional assessment
 Kinesiotherapy and stretching
 Therapeutic heat and cold
 Therapeutic Massage
 Electrical stimulation

- Electrical stimulation

Course contents (extended version)

- Therapeutic Ultrasounds

- Hydrotherapy
 Laser Therapy
 Rehabilitation plans: neurological, orthopedic, osteoarthritis.
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 11. Endocrine Diseases

 Hyperthyroidism, Hypothyroidism,

 Hyperadrenocorticism or Cushing's Disease/Syndrome

 Hypoadrenocorticism or Addison's Disease

 Diabetes Mellitus or Sugar Diabetes

 Diabetes Insipidus (DI), or Weak or Watery Diabetes

 12. Ocular diseases
- Ocular diseases

 Conjunctivitis or Pink Eye Epiphora Third Eyelid Prolapse or Cherry EyeEntropion/Ectropion
 Glaucoma, Corneal Ulcers, Chronic Superficial Keratitis Keratoconjunctivitis Sicca
 Anterior Uveitis, Cataracts Progressive Retinal Atrophy (PRA) or
- 13. Heart diseases
 - Arrhythmias and ECG interpretation
 - Heart diseases and vascular diseases

Recommended reading

- Johnson, A., 2014. Small animal pathology for veterinary technicians. Wiley-Blackwell, NJ, EUA, 240 pp.
 Goff, L., Mcgowan, C. (editors), 2016. Animal Physiotherapy: Assessment, Treatment and Rehabilitation of Animals. 2ª edição, John Wiley & Sons Inc, 376 pp.
 Merrill, L. (Editor), 2012. Small animal internal medicine for veterinary technicians and nurses. Wiley-Blackwell, NJ, EUA, 548 pp.
 Cooper, B., Mullineaux e; Turner, L. (Editors), 2020. BSAVA Textbook of veterinary nursing. 6th edition, British Small Animal Veterinary Association, RU, 960 pp.
 Millis D & Levine D (2013). Canine Rehabilitation and Physical Therapy, 2nd Edition. Saunders. 784 pp.

Teaching and learning methods

Theoretical classes with audio-visual support, multimedia, computer and others. Theoretical-practical classes of medication administration, complementary diagnostic exams and assistance in physiotherapy and rehabilitation of animals of different species.

Assessment methods

- Components of theoretical and practical evaluation (Regular, Student Worker) (Final, Supplementary, Special)
 Intermediate Written Test 50% (Theoretical part.)
 Intermediate Oral Test 50% (Practical part.)

Language of instruction

- 1. Portuguese, with additional English support for foreign students 2. English

Electronic validation

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17-01-2024	28-01-2024	29-01-2024	29-01-2024