VM4202: AQUATIC VETERINARY MEDICINE

Effective Term
Semester B 2025/26

Part I Course Overview

Course Title
Aquatic Veterinary Medicine

Subject Code
VM - Jockey Club College of Veterinary Medicine and Life Sciences
Course Number
4202

Academic Unit
Infectious Diseases and Public Health (PH)

College/School
Jockey Club College of Veterinary Medicine and Life Sciences (VM)

Course Duration
One Semester

Credit Units
2

Level
B1, B2, B3, B4 - Bachelor's Degree

Medium of Instruction
English

Medium of Assessment
English

Prerequisites
Completion of Year 4 courses with C grade or above

Precursors
Nil

Equivalent Courses
Nil

Exclusive Courses
Nil

Part II Course Details

Abstract
This course will build on the previous aquaculture and aquatic animal health course (VM2106). It will focus on diagnostic and treatments used for fish diseases, which will prepare student for the clinical year rotation in aquatic animal medicine.

The main viral, bacterial, parasitic, fungal, and environmental diseases of fish species will be presented using a case-based problem teaching approach. Students will learn how to treat and prevent these diseases. Other topics covered will include legislation, regulations, and policies on aquatic animal veterinary practice, as well as current issues on aquatic animal welfare.

Course Intended Learning Outcomes (CILOs)

	CILOs	Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Obtain and analyze medical histories to determine appropriate diagnostic tests for fish cases		x	x	
2	Formulate diagnoses based on the interpretation of diagnostic test results from fish cases		x	x	
3	Recommend appropriate treatments, including drug dosages, for common diseases of fish cases		x	x	
4	Develop prevention strategies for common diseases of fish		x		
5	Discuss the laws, regulations, and policies that impact aquatic animal veterinary practice		x		
6	Demonstrate integration of the principles of veterinary case management		x	x	x

A1: Attitude
Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

A2: Ability
Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to real-life problems.

A3: Accomplishments
Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

Learning and Teaching Activities (LTAs)

	LTAs	Brief Description	CILO No.	Hours/week (if applicable)
1	Lectures	Students will participate in lectures that provide aquatic animal medicine principles and case studies	1, 2, 3, 4	3 hrs / wk for 8 weeks
2	Case simulation exercise	Team based learning exercise	1, 2, 3, 4, 5, 6	2 hour case simulation exercise

Assessment Tasks / Activities (ATs)

	ATs	CILO No.	Weighting (%)	Remarks ("-" for nil entry)	Allow Use of GenAI?
1	Midterm exam	1, 2, 3, 4	30	Written test	No
2	Case simulation	1, 2, 3, 4	20	computer interaction exercise and presentation	Yes

Continuous Assessment (%)

50

Examination (%)

50

Examination Duration (Hours)

2

Assessment Rubrics (AR)

Assessment Task

1. Midterm Exam

Criterion

Students will demonstrate their knowledge of the material covered in the classroom on aquatic animal medicine by communicating it effectively in written format .

Excellent (A+, A, A-)

Students achieve an 92% or greater on the examination of the class.

Good (B+, B, B-)

Students achieve a 61% or greater on the examination of the class.

Fair (C+, C, C-)

Students achieve a 50% or greater on the examination of the class. (C letter grade is at least 50% or greater). See additional information for AR regarding mark range below, as in the BVM programme only C+ and C grades are awarded.

Marginal (D)

Not applicable for the BVM programme.

Failure (F)

Students achieve less than 50% on the examination of the class and laboratory material.

Assessment Task

2. Case assignment

Criterion

Students will demonstrate their knowledge of the material covered in the classroom and laboratory sessions on aquatic animal medicine by communicating it effectively in written and oral format.

Excellent (A+, A, A-)

Students achieve an 92% or greater on the examination of the class.

Good (B+, B, B-)

Students achieve a 61% or greater on the examination of the class.

Fair (C+, C, C-)

Students achieve a 50% or greater on the examination of the class. (C letter grade is at least 50% or greater). See additional information for AR regarding mark range below, as in the BVM programme only C+ and C grades are awarded.

Marginal (D)

Not applicable for the BVM programme.

Failure (F)

Students achieve less than 50% on the examination of the class and laboratory material.

Additional Information for AR

Mark Range

The following is the mark range for each letter grade that must be used for assessment of any examinations or coursework of BVM courses (VM- and GE-coded) offered by PH and VCS.

Letter Grade	Mark Range	Letter Grade	Mark Range
A+	≥92%	C+	54-60.99%
A	87-91.99%	C	50-53.99%
A-	82-86.99%	F	<50%
B+	75-81.99%		
B	68-74.99%		
B-	61-67.99%		

Part III Other Information

Keyword Syllabus

Aquatic animal medicine; treatment and prevention of fish diseases

Reading List

Compulsory Readings

	Title
1	Selected reading material fish diseases assigned throughout the course

Additional Readings

	Title
1	Holmes K. and Pitham T. 2011. Manual of Koi Health 2nd. Firefly Books Inc. Buffalo, NY.
2	Stoskopf, MK. Fish Medicine. 1993. WB Saunders Company, Philadelphia, Pennsylvania.
3	Leatherland, J. F., Woo, P. T. K., & Bruno, D. W. 1995. Fish diseases and disorders (V1-3).Wallingford, Oxon, UK: CABI Pub.
4	Noga, E, J., 2014. Fish Disease Diagnosis and Treatment 2nd ed. Wiley Blackwell, Daryaganj, New Delhi.