



KU LEUVEN

MASTER IN AQUACULTURE (INSTRUCTED IN ENGLISH PROGRAMME)

International MSc in Aquaculture
Graduation Ceremony



The Master in Aquaculture (Instructed in English Programme) was constructed based on collaboration between Vietnamese institutions including Can Tho University, Nha Trang University, Hue University, Vietnam National University of Agriculture, Research Institute for Aquaculture No. 2 and University of Ghent, Belgium under the framework of VLIR-Network project.

The curriculum of this program was developed based on benchmarking with other university curriculum, especially of University of Ghent (Belgium) and Flinders University, (Australia) and modified to be appropriate with tropical region conditions.

OBJECTIVES

The program aims to train students to be able to:

- Manipulate and apply specialized knowledge of aquaculture and related fields to the local practical conditions
- Operate and develop aquaculture models for the regional socio-economic development
- Discover and solve problems of production as well as research related to aquaculture
- Integrate globally and adapt to the working environment which is highly competitive in research, training and technology transfer in aquaculture.

After graduating, the students will qualify with high capacity and international levels to take different positions such as leader or manager of the state aquaculture sector or specialists of national and international companies; researchers and lecturers of national or international institutions; be able to proceed with PhD level at the leading university in aquaculture in the world.

TEACHING STAFF

From Vietnam: Teaching staff team is diverse coming from the university network including Can Tho University, Nha Trang University, Hue University, Vietnam National University of Agriculture, Research Institute for Aquaculture No.2 who are highly experienced in teaching and research and qualified from many reputation universities in the world.

From Belgium: Professors from Gent University who have long history in MSc and PhD training also participate in lecturing



CURRICULUM

The curriculum has been developed and modified as the research orientation program consisting of 60 credits including 13 credits of Fundamental knowledge, 17 credits of specialized knowledge, 27 credits of scientific research in which there are 15 credits for graduation thesis and 3 credits of Philosophy.

Compulsory courses

I. General knowledge

1. Philosophy 3 (45: 0) *

II. Fundamental knowledge

2. Scientific research methodology 2 (20:20)
3. Applied statistics in aquaculture 2 (20:20)
4. Feed and nutrition in aquaculture 3 (30:30)
5. Physiology of aquatic organisms 2 (20:20)

III. Specialized knowledge

6. Water quality management in tropical aquaculture systems 2 (20:20)
7. Advanced Tropical fish culture 2 (30:0)
8. Advanced Tropical shellfish culture 2 (30:0)
9. Practical training on Aquaculture 3 (0:90)

IV. Scientific research

10. MSc thesis 15 (0:450)
11. Research topic: Fish diseases 2 (0:60)
12. Research topic: Applied Microbiology in aquaculture 2 (0:60)
13. Research topic: Applied biotechnology in Aquaculture 2 (0:60)

Elective courses

I. Fundamental knowledge

14. General aspects of Aquaculture 2 (30:0)
15. Biomonitoring in aquatic environment 2 (20:20)
16. Aquatic toxicology 2 (20:20)
17. Aquaculture resources management 2 (30:0)

II. Specialized knowledge

18. Artemia culture 2 (20:20)
19. Production and value chains in aquaculture 2 (30:0)
20. Recirculation Aquaculture Systems (RAS) 2 (20:20)
21. Aquaculture genetics 2 (30:0)
22. Food safety and hygiene of aquaculture products 2 (30:0)
23. Application of GIS in aquaculture 2 (20:20)

III. Scientific research (Research topics)

24. Engineering and technology information in aquaculture 2 (0:60)
25. Tropical aquatic ecosystems 2 (0:60)
26. Applied immunology in aquaculture 2 (0:60)
27. Technology of fisheries product processing 2 (0:60)
28. Quality assurance in aquaculture production chains 2 (0:60)
29. Planning for aquaculture development 2 (0:60)
30. Tropical aquaculture specialty 2 (0:60)
31. Seaweed culture 2 (0:60)
32. Internships 2 (0:90)

*: 2 credits (20 hrs theory : 20 hrs practice)

TRAINING DURATION, LOCATION AND LANGUAGE

Training duration: Continuously 24 months

Location: Mainly at Can Tho University and other universities in the network (Nha Trang University, Hue University, Vietnam National University of Agriculture, Research Institute for Aquaculture No.2).

Institution issuing diploma: Can Tho University

Language: English



ENROLLMENT INFORMATION

Admission capacity: 20-30 students per intake

Admission requirements:

- Graduated from aquaculture and related fields (Aquatic pathology, Aquatic resources management, Agronomy, Animal husbandry...) or fields that taken the combination of basic subjects of (i) mathematics, biology, physics; (ii) mathematics, biology, chemistry, and attained grade of at least distinction at the undergraduate level (GPA>2.5/4.0).
- English proficiency requirement:
 - At application: IELTS score of at least 5.5 or equivalent
 - At enrollment: IELTS score of at least 6.0 or equivalent

(not required if being graduated from BSc degree instructed fully in English)

Entrance examination:

- Open admission: For foreign candidates (application screening)
- Entrance exam: For Vietnamese students as regulated

Application period:

- Deadline for application submission: June 15th 2023

FEE AND SCHOLARSHIP

Scholarships: Entire scholarship including travel costs, tuition fee, allowance, medical insurance... Number of scholarships: 5-10 each year based on admission results.

Tuition fee:

- For Vietnamese students: 26 million VND/year
- For foreign students: 1800 USD/year

CONTACT

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