



# MASTER PROGRAM IN TROPICAL AQUACULTURE



The Master Program in Tropical Aquaculture was constructed based on collaboration between Vietnamese institutions including Can Tho University, Nha Trang University, Hue University, Vietnam National Academy of Agriculture, Institute for Aquaculture Research 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 University of Stirling (UK) 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:** The teaching staff is diverse coming from the university network including Can Tho University, Nha Trang University, Hue University, Vietnam National University of Agriculture, Institute for Aquaculture Research No.2 who are highly experienced in teaching and research and qualified from many reputation universities in the world

**From Belgium:** Professors from University of Ghent who have long history of MSc and PhD training such as Prof. Patrick Sorgeloos, Prof. Gilbert van Stappen....





## CURRICULUM

The curriculum consists of 65 credits including 32 compulsory credits, 18 elective credits and 15 credits for research project. The optional credits are divided into different specialized packages such as Environment and ecosystem services; Diseases; Planning and management of culture and resources; Specialty aquaculture,...

Prior to initiate the program, students will be given 15 credits of enhanced English to strengthen themselves in English (if necessary):

1. Pre-master English	15 (225)
<b>Compulsory courses (32 credits)</b>	
2. Scientific research methodology	2 (20:20)*
3. Applied statistics in aquaculture	2 (20:20)
4. General aspects of Aquaculture	2 (30:0)
5. Tropical Aquatic ecosystems	2 (30:0)
6. Feed and nutrition in aquaculture	3 (30:30)
7. Physiology of aquatic organisms	2 (20:20)
8. Water quality management in tropical aquaculture systems	2 (20:20)
9. Applied biotechnology in Aquaculture	2 (20:20)
10. Fish health management	3 (30:30)
11. Aquaculture genetics	3 (30:30)
12. Advanced Tropical fish culture	2 (30:0)
13. Advanced Tropical shellfish culture	2 (30:0)
14. Production and Value chains in aquaculture	2 (30:0)
15. Practical training on Aquaculture	3 (0:90)
<b>Elective courses (18 credits)</b>	
16. Bio-monitoring in the aquatic environments	2 (20:20)
17. Aquatic toxicology	2 (20:20)
18. Applied immunology in aquaculture	2 (30:0)
19. Artemia culture	2 (20:20)
20. Technology of fisheries products processing	2 (30:0)
21. Recirculation Aquaculture Systems (RAS)	2 (20:20)
22. Quality assurance in aquaculture production chain	2 (30:0)
23. Food safety and hygiene of aquaculture products	2 (30:0)
24. Applied Microbiology in aquaculture	2 (30:0)
25. Application of GIS in aquaculture	2 (20:20)
26. Aquatic resources management	2 (30:0)
27. Aquaculture wetland Ecosystem services	2 (30:0)
28. Planning for Aquaculture development	2 (30:0)
29. Tropical aquaculture specialty	2 (30:0)
<b>Graduation thesis (15 credits)</b>	
30. MSc thesis	15 (0:450)
<b>Total:</b>	<b>65</b>

\*: 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 Academy of Agriculture, Institute for Aquaculture Research 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 15<sup>th</sup> annually

## FEE AND SCHOLARSHIP

**Scholarships:** Entire scholarship including travel costs, tuition fee, allowance, medical insurance... Number of scholarship: 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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