



MASTER OF SCIENCE PROGRAM IN **AQUACULTURE**

The Master of Science program in Aquaculture is an innovative program to train graduates into high quality human resources for the aquaculture industry, business and research. The program is designed to generate qualified work force with advanced skills and profound insights in tropical aquaculture, aquatic environment and resources, as well as future direction for aquaculture in the context of climate change condition.



LEARNING OUTCOMES

Students at graduation will be able to:

- Master knowledge on biology and physiology of aquatic animals at different life stages;
- Master knowledge on aquaculture captive breeding and farming;
- Master knowledge on animal health and nutrition, selective breeding programs;
- Understand of aquatic environment and the impact factors of the aquatic environment on aquaculture and vice versa;
- Be managers and /or in charge of techniques for aquaculture hatcheries and farms;
- Self-organize research activities related to aquaculture.

OBJECTIVES

The master programme in aquaculture provides students advanced knowledge and skills so that they can work independently to apply research in practice, ability to optimize and operate new culture techniques and organize production at different scales, from small-hatchery to industrial production.

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 universities in aquaculture in the world.



TEACHING STAFFS

From Abroad: professors from University of Ghent, James Cook University and Curtin University who have long history of Msc and PhD training in the field.

From Vietnam: the teaching staffs are diverse coming from the university network including Nha Trang University, Can Tho University and Research Institute for Aquaculture who are highly experienced in teaching and researching and qualified from many reputation universities in the world.





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TRAINING DURATION, LOCATION AND LANGUAGE

Training duration: 18 months

Location: Mainly at Nha Trang University

Institution issuing diploma: Nha Trang University

Language: English

CURRICULUM

The curriculum consists of 60 credits including 22 compulsory, 18 optional and 20 research project credits. Prior to initiation of the program, students will be given 15 credits of enhanced English to strengthen themselves (if necessary).

Compulsory courses (22 credits)

	Th.	Pr.
1. Aquaculture Technology	2	1
2. Scientific methodology in Aquaculture	2	1
3. Aquatic Ecology	2	1
4. Nutrition and Feed in Aquaculture	2	1
5. Physiology of Aquatic Animals	2	1
6. Health Management for Aquatic Animals	2	1
7. Applied Genetics for Aquaculture	2	1
8. Water Quality Management for Aquaculture	2	0

Optional courses (18 credits)

9. Vaccination for Aquaculture	2	1
10. Applied Microbiology in Aquaculture	3	0
11. Recirculation Aquaculture Systems (RAS)	2	1
12. Management of Aquatic Resources	3	0
13. Processing Technology of Fisheries Products	3	0
14. Food supply chain management and fisheries trade	2	1
15. Quality assurance in aquaculture production chain	3	0
16. Fundamental Ecotoxicology & Environmental Monitoring	2	1
17. Special seminar series (Aquaculture under global climate change, Biodiversity)	3	0

Graduation thesis (20 credits)

18. MSc. Thesis	0	20
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1 credit ~ 15 hours (Th.): Theory; ~ 30 hours (Pr.): Practices



ENROLLMENT INFORMATION

Admission requirements:

Candidates are expected to have basic science training in 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: candidates having obtained Bsc degree from a program where English is not the language of instruction need to have obtained a score of 5.0 on the IELTS test (or equivalent). Candidates have obtained an IELTS score of 4.5 can apply but he/she has to follow an English training to be offered by Nha Trang University.

Entrance examination: open admission for foreign candidates (application screening); entrance exam for Vietnamese students as regulated.

Period for examination: deadline for application submission: July 30th annually; entrance exam: following online announcement.

Tuition fee: Vietnamese student: 40 million VND/course;

Foreign student: 3,600 - 4,000 USD/course.

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