

CURRICULUM
International Master Program in Aquaculture

	Training program	Master program in Aquaculture
	Code	60 62 03 01
	Coordinating unit	VLIR-Network- Vietnam Can Tho University
	Objectives	To provide students broad and deep knowledge on sustainable aquaculture and scientific approaches to be proactive, creative and able to work and do research independently. Students will be capable to work in any position in related aquaculture and fisheries positions both nationally and internationally.
	Expected learning outcomes (ELO)	Students at graduation will be able to
	ELO.1	Display thoroughly the specialized knowledge on aquatic environment, diseases and nutrition
	ELO.2	Display thoroughly the specialized knowledge on fish hatchery and farming
	ELO.3	Manage and operate independently fish hatchery and farms
	ELO.4	Self-organize research activities related to aquaculture
	ELO.5	Develop ability of self- study and life-long study

No	Course codes	Courses	Cred. No	Theory	Practice
Compulsory courses (32)					
1.	AQ601	Scientific research methodology	2	20	20
2.	AQ602	Applied statistics in aquaculture	2	20	20
3.	AQ603	General aspects of Aquaculture	2	30	
4.	AQ604	Tropical Aquatic ecosystems	2	30	
5.	AQ605	Feed and nutrition in aquaculture	3	30	30
6.	AQ606	Physiology of aquatic organisms	2	20	20

No	Course codes	Courses	Cred. No	Theory	Practice
7.	AQ607	Water quality management in tropical aquaculture systems	2	20	20
8.	AQ608	Applied biotechnology in Aquaculture	2	20	20
9.	AQ609	Fish health management	3	30	30
10.	AQ610	Aquaculture genetics	3	30	30
11.	AQ611	Advanced Tropical fish culture	2	30	
12.	AQ612	Advanced Tropical shellfish culture	2	30	
13.	AQ613	Production and Value chains in aquaculture	2	30	
14.	AQ614	Practical training on Aquaculture	3		90
Optional courses (18: 10 in the first year and 8 in the second year)					
15.	AQ615	Bio-monitoring in the aquatic environments	2	20	20
16.	AQ616	Aquatic toxicology	2	20	20
17.	AQ617	Applied immunology in aquaculture	2	30	
18.	AQ618	Artemia culture	2	20	20
19.	AQ619	Technology of fisheries products processing	2	30	
20.	AQ620	Recirculation Aquaculture Systems (RAS)	2	20	20
21.	AQ621	Quality assurance in aquaculture production chain	2	30	
22.	AQ622	Food safety and hygiene of aquaculture products	2	30	
23.	AQ623	Applied Microbiology in aquaculture	2	30	
24.	AQ624	Application of GIS in aquaculture	2	20	20
25.	AQ625	Aquatic resources management	2	30	
26.	AQ626	Aquaculture wetland Ecosystem services	2	30	
27.	AQ627	Planning for Aquaculture development	2	30	

No	Course codes	Courses	Cred. No	Theory	Practice
28.	AQ628	Tropical aquaculture specialty	2	30	
29.	AQ900	MSc thesis	15		
		Total	65		