

1. INFORMATION OF COURSE AND LECTURER

- 1.1. Course name and code: **Practical training on Aquaculture**
- 1.2. Course specification: 4 Cred. (Theory: 0; Assignment: 0; Practice: 4), 120 hours (T: 0; A: 0; P: 120)
- 1.3. Prerequisites courses: Advanced Tropical aquaculture
- 1.4. Responsible Department: CTU-VNUA-NTU
- 1.5. Information of lecturer:
Name: Bui Minh Tam
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Co-teaching lecturer:

Name : TN Hai
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2. COURSE DESCRIPTION

This course is aquaculture knowleges and applying theory into practice. This course consists of practice on production of freshwater and brackish water fishes, tiger shrimp and giant prawn. Besidely, the course also provide information from aquaculture farming through field trip.

3. COURSE EXPECTED LEARNING OUTCOMES

After studying practice, learner can plan fish and shrimp production.

Practice:

- Stimulating fish and shrimp production
- Nursing fish and shrimp

4. COURSE CONTENTS

Chapters	Hours (T/A/P)
<p>Chapter 1: Reproduction of freshwater fish</p> <p><i>Learners practice stimulating reproduction of freshwater fish such as: striped catfish, walking catfish and common carp and nursing them from larvae to fingerling. There are 32 hours for practice in hatchery.</i></p> <p>1.1. Stimulating artificial propagation of striped catfish 1.2. Stimulating artificial propagation of common carp 1.3. Stimulating artificial propagation of walking catfish 1.4. Nursing walking catfish from larvae to fingerling</p> <p><i>To studying this chapter, learners have to read reference [1], [2], [3].</i></p>	0/0/32
<p>Chapter 2: Reproduction of brackish fish</p> <p><i>Learners practice stimulating reproduction of brackish fish such as spotted scad and brackish catfish and nursing them from larvae to fingerling. There are 32 hours for practice in hatchery.</i></p> <p>2.1 Stimulating artificial propagation of spotted scad 2.2 Stimulating artificial propagation of brackish catfish 2.3 Nursing brackish catfish</p> <p><i>To studying this chapter, learners have to read reference [1], [2], [3].</i></p>	0/0/32
<p>Chapter 3: Reproduction of shrimp</p> <p><i>Learners practice stimulating reproduction of freshwater fish such as: striped catfish, walking catfish and common carp and nursing them from larvae to fingerling. There are 32 hours for practice in hatchery.</i></p> <p>3.1 Stimulating reproduction of tiger shrimp 3.2 Stimulating reproduction of giant prawn 3.3 Nursing tiger shrimp</p> <p><i>To studying this chapter, learners have to read reference [4], [5], [6].</i></p>	0/0/32
<p>Chapter 4: Field trip on grow out farms</p> <p><i>Learners visit aquaculture farms such as striped catfish, walking catfish, tiger shrimp, giant prawn and cobia.</i></p> <p>4.1 Visiting striped catfish farm 4.2 Visiting walking catfish farm 4.3 Visiting tiger shrimp farm 4.4 Visiting giant prawn farm</p>	0/0/24

<p>4.5 Visiting cobia farm</p> <p><i>To studying this chapter, learners have to read reference [4], [5], [6].</i></p>	
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5. TEACHING METHODS AND ASSESSMENT

5.1. **Teaching methods:** this course consist of 120 hours, learners have to do seminar and do presentation

5.2. **Assessment methods:** Seminar (20%), practice daily (20%) and final exam (60%)

6. READING REFERENCES

- [1]Jingran, V.G and R.S.V Pulin, 1985. A hatchery manual for the common Chinese and Indian Major carp. Asian development bank International center for living aquatic resources management.
- [2]Elsa Cabrita, Vanesa Robles, and Paz Herráez, 2009. Methods in Reproductive Aquaculture Marine and Freshwater Species. CRC Press
- [3]David O. Norris and Kristin H. Lopez, 2011. Hormones and reproduction of Vertebrates. Elsevier
- [4] Nguyễn Thanh Phương và Trần Ngọc Hải, (2004). Giáo trình kỹ thuật sản xuất giống và nuôi giáp xác
- [5] Nguyễn Thanh Phương , Trần Ngọc Hải, Trần Thị Thanh Hiền, Marcy N. Wilder (2003). Nguyên lý và kỹ thuật sản xuất giống tôm càng xanh (*Macrobrachium rosenbergii*).
- [6] Trần Ngọc Hải, Nguyễn Thanh Phương (2009). Nguyên lý và kỹ thuật nuôi tôm sú (*Penaeus monodon*).

Date:

Lecturer