

## 1. INFORMATION OF COURSE AND LECTURER

- 1.1. Course name and code: Tropical specialty aquaculture
- 1.2. Course specification: 2 Cred. (Theory: 2; Assignment: 0; Practice: 0), 30 hours (Theory: 30; Assignment: 0; Practice: 0)
- 1.3. Prerequisites courses:
- 1.4. Responsible Department: CTU-VNUA-NTU
- 1.5. Information of lecturer:

Name: Bui Minh Tam  
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Co-teaching lecturer:  
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## 2. COURSE DESCRIPTION

This course is aquaculture knowleges consisting of biological characteristics and culture techniques of high economic value species such as soft-shell turtle, hawksbill sea turtle, crocodile, thai native frog, python and bocourt's water snake.

## 3. COURSE EXPECTED LEARNING OUTCOMES

- After studying this course, learner can
- Understand biological characteristics above species
  - Design hatchery systems
  - Build grow-out systems

## 4. COURSE CONTENTS

Chapters	Hours (T/A/P)
<p><b>Chapter 1:</b> Turtle group</p> <p>This chapter introduces biological characteristics, reproduction and grow-out culture techniques of soft-shell turtle, hawksbill sea turtle. This chapter also provides knowleges about breeding migration of sea turtle group.</p> <ol style="list-style-type: none"><li>1.1. Biological characteristics of turtle group</li><li>1.2. Sea turtle and breeding migration characteristics</li><li>1.3. Biological characteristics and culture techniques of soft-shell turtle (<i>Pelochelys cantorii</i>)</li><li>1.4. Biological characteristics and culture techniques of hawksbill sea turtle (<i>Eretmochelys imbricate</i>)</li></ol>	8/0/0

<p><i>To studying this chapter, learners have to read reference [1], [2], [3].</i></p>	
<p><b>Chapter 2: Crocodile group</b></p> <p>This chapter introduces biological characteristics, reproduction and grow-out culture techniques of saltwater crocodile, spotted gar.</p> <p>1.5. Biological characteristics of crocodile group</p> <p>1.6. Biological characteristics and culture techniques of spotted gar (<i>Lepisosteus oculatus</i>).</p> <p>1.7. Biological characteristics and culture techniques of saltwater crocodile (<i>Crocodylus porosus</i>)</p> <p><i>To studying this chapter, learners have to read reference [1], [2], [3].</i></p>	<p>8/0/0</p>
<p><b>Chapter 3: Frog group</b></p> <p>This chapter introduces biological characteristics, reproduction and grow-out culture techniques of thai native frog, american bullfrog.</p> <p>1.8. Biological characteristics of frog group</p> <p>1.9. Biological characteristics and culture techniques of american bullfrog (<i>Rana catesbeiana</i>).</p> <p>1.10. Biological characteristics and culture techniques of thai native frog (<i>Rana rugulosa</i>).</p> <p><i>To studying this chapter, learners have to read reference [3], [4].</i></p>	<p>8/0/0</p>
<p><b>Chapter 4: Snake group</b></p> <p>This chapter introduces biological characteristics, reproduction and grow-out culture techniques of bocourt's water snake và pythons.</p> <p>1.11. Biological characteristics of snake group</p> <p>1.12. Biological characteristics and culture techniques of bocourt's water snake (<i>Subsessor bocourti</i>).</p> <p>1.13. Biological characteristics and culture techniques of python (<i>Python molurus bivittatus</i>)</p> <p><i>To studying this chapter, learners have to read reference [4]</i></p>	<p>6/0/0</p>

## 5. TEACHING METHODS AND ASSESSMENT

**5.1. Teaching methods:** this course consists of 30 hours, learners have to do seminar and do presentation in class.

**5.2. Assessment methods:** Seminar: 10%, mid-term exam: 30% và final exam: 60%.

## 6. READING REFERENCES

[1] Chan Eng Heng and Liew Hock Chark 1989. The leatherback turtle – A Malaysian Heritage. Tropica.

[2] Buenviaje G., R.G.Hirst and P.M.Summers, 2000. Pathology of Skin Diseases of Crocodiles. Rural Industries Research and Development Corporation

[3] Bùi Minh Tâm, 2015. Giáo trình Kỹ thuật cá cảnh và thủy đặc sản. Khoa Thủy sản – Đại học Cần Thơ

[4] Le Minh Quoc, 2012. Frog value chain case study in Ho Chi Minh city, Viet Nam. MSc. Thesis. The Norwegian College of Fishery Science, University of Tromso, Norway & Nha Trang University, Vietnam

*Date: July 31, 2015*

**Lecturer**

Bùi Minh Tâm