

**1. INFORMATION OF COURSE AND LECTURER**

1.1. Course name and code: **PLANNING FOR AQUACULTURE DEVELOPMENT (AQ311)**

1.2. Course specification: 2 Cred. (30 theory hours, 0 practice hours, 0 internship hours, 0 project hours, 0 thesis hours, 0 and 60 self-study hours, 60 hours)

1.3. Prerequisites courses: Non

1.4. Responsible Department: Department of Fisheries Management and Economics

1.5. Information of lecturer:

Name: Assoc. Prof. Dr. Truong Hoang Minh

Email: thminh@ctu.edu.vn

Co-teaching lecturer:

Name :

Email:

**2. COURSE DESCRIPTION**

The lecture provide 4 major contents which consist of (1) global and national aquaculture development and issues; (2) concepts in aquaculture planning and management; (3) design and implementation of planning; and (4) tools and methods of aquaculture planning.

**3. COURSE EXPECTED LEARNING OUTCOMES**

*Theoretically:*

- Understand Global and national aquaculture development and issues
- Understand basic concepts in aquaculture planning and management
- Participate in designing and implementation for aquaculture planning
- Appliaction tools and methods of aquaculture planning and zoning.

**4. COURSE CONTENTS**

<b>Chapters</b>		<b>Hours (T/A/P)</b>
<b>Chapter 1.</b>	<b>Global and national aquaculture development and issues</b> This chapter will provide knowledge of Global and national aquaculture development and issues	<b>4/0/0</b>
1.1.	Aquaculture development in the World and Vietnam	2
1.2.	Prospects, benefits, roles, issues in aquaculture	2
<i>In order to understand well this chapter, students should read references of [1] and finding articles on aquaculture, economy and environment;</i>		

<i>Download and reading articles from Journals of aquaculture and environment and websites of VASEP, MARD</i>		
<b>Chapter 2.</b>	<b>Concepts in aquaculture planning and management</b> This chapter will provide knowledge of basic concepts in aquaculture planning and management  2.1. Basic concepts in zoning and planning 2.2. Natural resources, environment, biodiversity and management  <i>In order to understand well this chapter, students should read references of [1], [2], [3], [7]</i>	<b>4/0/0</b>    2 2
<b>Chapter 3.</b>	<b>Design and implementation of planning and management</b> This chapter will provide knowledge of designing and implementation for aquaculture planning  3.1. Planning process 3.2. Aquaculture governance, policy formulation, strategy development and planning 3.3. Principles of planning and management  <i>In order to understand well this chapter, students should read references of [2], [3], [5]</i>	<b>8/0/0</b>    2 2 2
<b>Chapter 4.</b>	<b>Tools and methods of aquaculture planning</b> This chapter will provide knowledge of application tools and methods of aquaculture planning and zoning  4.1. Administrative and economic instrument 4.2. Institutional, political and stakeholder analysis 4.3. Technique of participatory rural appraisal (PRA) 4.4. Environmental impact assessment 4.5. Evaluation of socio-economic and technical aspects 4.6. Application of remote sensing and geographical information system 4.7. Analytical technique in suitable aquaculture zoning  <i>In order to understand well this chapter, students should read references of [2],[3],[4], [5], [6], [7], [8]</i>	<b>14/0/0</b>    2 2 2 2 2 2 2

**Practical:** No

## **5. TEACHING METHODS AND ASSESSMENT**

### **5.1. Teaching methods:**

- Using power point, explanation, guiding for group discussion

- Stating of circumstances and guiding students discussion and analysis
- Guidance students the ways to find scientific articles and learn themselves

## 5.2. Assessment methods:

No.	Point components	Rules and Requirement	Weights	Objectives
1	Lecture attendance	Attendance 80%	10	3.3.1
2	Assignment	Reading articles, writing report and presentation	20	3.1.1 to 3.1.4; 3.2.1 to 3.2.5, 3.3.2, 3.3.3
3	Mid-semester exam	Writing	20	3.1.1 to 3.1.4; 3.2.1, 3.3.1
4	Final exam	Writing	50	3.1.1 to 3.1.4; 3.2.1; 3.3.1

## 6. READING REFERENCES

- [1] Handout
- [2] Colin, E. Nash., 1995. *Aquaculture sector planning and management*. Fishing News Books
- [3] FAO, 1999. *Planning and management for sustainable coastal aquaculture development*
- [4] Robert Kay and Jacqueline Alder, 1999. *Coastal planning and management*. New York
- [5] FAO, 2010. Aquaculture planning: policy formulation and implementation for sustainable development. Fisheries and aquaculture technical report, 542.
- [6] IIRR, 1998. Participatory methods in community-based coastal resource management
- [7] Lohani, B., J.W. Evans, H. Ludwig, R.R. Everitt, Richard A. carpenter, and S.L. Tu, 1997. Environmental Impact Assessment for Developing Countries in Asia. Vol.1-Overview. 364 pp.
- [8] PingSun Leung, Cheng-Sheng Lee and Patricia J. O’Bryen, 2007. *Species and system selection for sustainable aquaculture*. Blackwell Publishing, 489p.

*Date: 24 July 2015*

**Lecturer**

Assoc. Dr. Truong Hoang Minh