

1. INFORMATION OF COURSE AND LECTURER

- 1.1. Course name and code: **Quality assurance in aquaculture production chain**
- 1.2. Course specification: 2 Cred. (T: 30, A: 0, P: 0)
- 1.3. Prerequisites courses: Planning for Aquaculture Development
- 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 provides 5 major contents which consist of (1) The current status of Vietnam aquaculture development and issues; (2) International market demand and certification standards; (3) Action plan and steps of implementation for certification; (4) Food safety, quality control in aquatic products and traceability; and (5) Forms of integration in aquaculture production chain.

3. COURSE EXPECTED LEARNING OUTCOMES

Theoretically:

- Understand the current status of Vietnam aquaculture development and issues
- Understand international market demand and certification standards
- Practice in action planning and steps of implementation for certification
- Understand food safety, quality control in aquatic products and traceability
- Understand and applicability forms of integration in aquaculture production chain.

COURSE CONTENTS

Chapters		Hours (T/A/P)
Chapter 1. The current status of Vietnam aquaculture development and issues This chapter will provide knowledge of the current status of Vietnam aquaculture development and issues		4/0/0
1.1. Vietnam aquaculture development and issues		2
1.2. Vietnam aquaculture products export in international markets		2
<i>In order to understand well this chapter, students</i>		

	<i>should read references of [2], [3], [13], [16], [17] and finding articles on aquaculture, economy and environment; Download and reading articles from Journals of aquaculture and environment and websites of VASEP, MARD</i>	
Chapter 2.	<p>International market demand and certification standards</p> <p>This chapter will provide practices of international market demand as well as certification standards in aquaculture</p> <p>2.1. Practical market demand of aquatic products in the world</p> <p>2.2. Market analysis, predilection for consumers of aquatic products and Micheal model</p> <p>2.3. Marketing strategy and aquatic products’ penetrating</p> <p>2.4. Current applied certification standards in the world and Vietnam</p> <p><i>In order to understand well this chapter, students should read references of [1], [2], [3], [4], [6], [7], [8], [9], [10] và [17]</i></p>	<p>10/0/0</p> <p>2</p> <p>3</p> <p>3</p> <p>2</p>
Chapter 3.	<p>Practice in action planning and steps of implementation for certification</p> <p>This chapter will provide practical action plan and steps of implementation for aquaculture certification</p> <p>3.1. Action plan for aquaculture certification</p> <p>3.2. Steps of implementation for aquaculture certification</p> <p><i>In order to understand well this chapter, students should read references of [1], [2], [3], [4], [6], [7], [8], [9] và [10]</i></p>	<p>4/0/0</p> <p>2</p> <p>2</p>
Chapter 4.	<p>Food safety, quality control in aquatic products and traceability</p> <p>This chapter will provide knowledge of food safety, quality control and traceability in aquatic products</p> <p>4.1. Food safety and regulation in aquaqtic products</p> <p>4.2. Quality control for aquatic products</p> <p>4.3. Traceability for aquatic products</p> <p>4.4. Seafood ecolabelling: princibles and practice</p>	<p>8/0/0</p> <p>2</p> <p>2</p> <p>2</p> <p>2</p>

	<i>In order to understand well this chapter, students should read references of [2], [6], [7] và [13]</i>	
Chapter 5.	Forms of integration in aquaculture production chain This chapter will provide practice of integration in aquaculture production chain	4/0/0
5.1.	Forms integration in catfish production chain	2/0/0
5.2.	Forms integration in shrimp production chain	2/0/0
	<i>In order to understand well this chapter, students should read references of [[5], [11], [12] và [15]</i>	

Practically: Visiting processing plants, writing report and presentation

4. TEACHING METHODS AND ASSESSMENT

4.1. Teaching methods:

- Using power point, explanation, guiding for group discussion
- Designing of circumstances and guiding students discussion and analysis
- Guidance students the ways to find scientific articles and learn themselves

4.2. Assessment methods:

No.	Point components	Rules and Requirement	Weights
1	Lecture attendance	Attendance 80%	10
2	Assignment	Reading articles, writing report and presentation	20
3	Group presentation	Writing report and cycle presentation	20
4	Final exam	Writing	50

5. READING REFERENCES

- [1] Aquaculture Stewardship Council (ASC), 2012. Tiêu chuẩn đối thoại trong nuôi cá tra/Basa
- [2] Course handout
- [3] Bản tin VASEP, 2014. Xuất khẩu thủy sản Việt Nam đạt trên 6,7 tỷ Đô la Mỹ
- [4] Bộ Nông nghiệp và Phát triển Nông thôn, 2014. Quy phạm thực hành nuôi thủy sản tốt Việt Nam (VietGAP)
- [5] Đỗ Minh Vạnh, Trần Hoàng Tuấn, Trần Ngọc Hải và Trương Hoàng Minh, 2015. Đánh giá hiệu quả nuôi tôm thẻ chân trắng thâm canh theo các hình thức tổ chức ở đồng bằng sông cửu long
- [6] Global Aquaculture Alliance (GAA), 2010. Pangasius farm BAP standard, Guideline
- [7] Global Aquaculture Alliance (GAA), 2010. Shrimp farm BAP standard, Guideline
- [8] GLOBALGAP (EUROPEAN GAP), 2009. Control Points and Compliance Criteria Integrated Farm Assurance

- [9] Marine Stewardship Council, 2013. MSC Standard Setting Procedure 3.0: The review and revision of existing MSC international standards and the development of any new MSC international standards
- [10] Naturland, 2013. Naturland Standards for Organic Aquaculture
- [11] Phạm Công Kinh, Trương Hoàng Minh và Trần Ngọc Hải, 2015. Đánh giá các phương thức tổ chức và hiệu quả sản xuất của các hình thức nuôi tôm sú thâm canh ở đồng bằng sông Cửu Long
- [12] Phạm Thị Hồng, Trương Hoàng Minh, Dương Nhật Long và Nguyễn Thanh Phương, 2015. Phân tích khía cạnh kỹ thuật và tài chính trong nuôi cá tra (*Pangasianodon hypophthalmus*) theo các hình thức tổ chức sản xuất khác nhau
- [13] Trần Minh Phú, 2015. Sử dụng thuốc, chất lượng thóc kháng vi sinh thời gian hết thóc kháng vi sinh trong cá tra (*Pangasianodon hypophthalmus*) nuôi ở Đồng bằng sông Cửu Long, Việt Nam. Luận án Tiến sĩ.
- [14] Trần Ngọc Hải, Trương Hoàng Minh, Trương Quốc Phú, Vũ Ngọc Út và Nguyễn Thanh Phương, 2014. The shrimp industry in Vietnam-Innovation toward sustainable development
- [15] Trương Hoàng Minh, Bùi Thị Kiều Oanh, Trần Thị Nhật Quyên và Phạm Thị Kim Oanh, 2012. So sánh hiệu quả kỹ thuật và kinh tế trong nuôi cá tra liên kết và không liên kết ở Thành phố Cần Thơ và tỉnh Vĩnh Long
- [16] VASEP, 2014. Bản tin thương mại báo cáo xuất khẩu thủy sản Việt Nam
- [17] VASEP, 2014. Báo cáo xuất khẩu Việt Nam số 3, 4, 25, 26, 29, 30, 31, 33, 34, 35, 39-47

Date: 24 July 2015
Senior Lecturer

Assoc. Prof. Dr. Trương Hoàng Minh