

## Annex I (2) :

### Educational Plan(Food Processing & Safety)

#### 1.Training Objective

Developing advanced internationalized and applied professionals with high scientific quality; with insight into the current and future development trends in Food Processing & Safety Specialty; with comprehensive and sound knowledge and mastery of practical skills in, familiarity with and abilities in developing, application research in Food Processing & Safety Specialty both at home and abroad; as well as with a high level of English language.

#### 2. Enrollment, Graduation Requirements, Certificates and Diplomas

##### (1) Enrollment criteria

The specialty is incorporated into the national Master's students enrollment plan of Chinese institutions of higher education, after National Master's Students Entrance Examination and according to National Graduate Admissions Policy. The enrolment of any Italian student who wants to study in the ZJOU-UNIPI Marine Graduate School shall observe the relevant regulations about international students studying in China and is included in the total enrollment scale.

Chinese students shall have such an English level of 450 and up of CET IV; Italian students a B2 level and up (European English Proficiency Test).

##### (2) Graduation Requirements

Zhejiang Ocean University: the same as the students who do not take part in the school.

University of Pisa: in addition to the requirements of Zhejiang Ocean University, the degree dissertation has to be written in English and the students should defend the dissertation with the experts from the two universities.

##### (3) Degrees (certificates) and Conferring Requirements

Students who successfully complete their study on this program and pass all the examinations as stipulated in the Educational Plan shall be granted by Zhejiang Ocean University (ZJOU) the ZJOU Master Student Graduation Certificate of Higher Education (Food Processing & Safety Specialty); students who meet the degree awarding requirements of ZJOU and UNIPI, respectively, shall be awarded Professional Master Degrees of Agriculture (Food Processing & Safety professional field) and Master Degrees (Food Quality & Bio-safety) by ZJOU and UNIPI, respectively. UNIPI students who meet the degree awarding requirements of UNIPI, spend one year (the second year)of studying and doing thesis research in the Zhejiang Ocean University (ZJOU) and submit a report on the third-year activities in Italy shall be granted by Zhejiang Ocean University (ZJOU) the ZJOU Master Student Graduation Certificate of Higher Education (Food Processing & Safety Specialty).

#### 3. Teaching Management

(1) A Teaching Committee is going to be composed, according to Bylaw of Zhejiang Ocean University-University of Pisa Marine Graduate School.

(2) The teaching committee is composed of 5 people, i.e., school dean, school deputy dean, school dean assistant, and two specialty heads, with one from ZJOU and the other from UNIPI.

##### (3) Assessing criteria

It takes three(3)-year schooling system in ZJOU campus, i.e., "3+0" educational model, and the number of credits for graduation is at least 35.

#### 4. Teaching Progress Table

(1) Discipline name: Food Processing & Safety

(2) Discipline code: 095113

(3) Study period: 3 years

(4) Total academic hours of all the courses (with 1 credit of off-campus practical research being accounted as 16 academic hours): 598 hours

(5) Credits needed for graduation: at least 35

(6) Master graduation dissertation: needed without any credit in ZJOU but with credits in UNIPI.

Except for being written in English, other requirements are the same as non-school students.

Course Category	Course Name	Total Academic Hours	Credits	ECT Credits	Semester	Teaching Party
General Courses (6Credits)	Theory and Practice Research of Socialism with Chinese Characteristics	36	2	7	1	ZJOU
	Introduction to Natural Dialectics	18	1	4	1	ZJOU
	Essential English	64	2	7	1	ZJOU
	Professional English	16	1	5	1	ZJOU
Basic Specialty Courses (10 Credits)	Introduction to Food Processing Technology	32	2	7	1	ZJOU
	Safety and Quality Control of Aquatic Products	32	2	7	1	UNIPI
	Storage and Logistics of Agricultural Products	32	2	7	1	UNIPI
	Food Analysis	32	2	7	2	UNIPI
	Case Study of Food Safety	32	2	7	1	ZJOU
Specialty Courses (12 Credits)	Advances of New Technology in Food Quality	32	2	7	2	UNIPI
	Advanced Bio-chemistry	32	2	7	2	UNIPI
	Topics in Fish Zoonosis	32	2	7	2	UNIPI
	Topics on Comprehensive Utilization of Marine Biological Resources	32	2	7	2	ZJOU
	Topics on Sea Food Products Processes	32	2	7	2	UNIPI
	International Trade and Marketing of Agricultural Products	32	2	7	2	ZJOU
Compulsory Sci-tech Activities (7 Credits)	Academic Activities (two weeks in University of Pisa)		1	8	1-4	ZJOU UNIPI
	Off-campus Practical Research		6	24	/	ZJOU
	Activities for Master Thesis dissertation		pass	20	3-6 3-4	ZJOU UNIPI
Total	/	486	35	152	/	/

**N.B.:**

- 1. The Teaching Party marked with UNIPI indicates that the corresponding courses are imported from and to be instructed by the teachers from University of Pisa, Italy; while the Teaching Party marked with ZJOU indicates that the corresponding courses are to be instructed by the teachers of Zhejiang Ocean University;
- 2. The ratio of the imported courses from University of Pisa, Italy versus all the courses in the Educational Plan is  $7/15=46.67\%$ ;
- 3. The ratio of the imported core courses from University of Pisa, Italy versus all the core courses in the Educational Plan is  $7/11=63.64\%$ ;
- 4. The ratio of the undertaken core courses by the teachers from University of Pisa, Italy versus all the courses in the Educational Plan is  $7/15=46.67\%$ ;
- 5. The ratio of the academic hours of the core courses undertaken by the teachers from University of Pisa versus the total academic hours in the Educational Plan is  $224/598=37.46\%$ ;
- 6. The ratio of the credits of the core courses undertaken by the teachers from University of Pisa versus the total credits in the Educational Plan is  $14/35=40.00\%$ ;
- 7. The teachers from University of Pisa shall attend dissertation proposal, its mid-term evaluation and its oral defense, and will supervise dissertation writing through e-mail and/or conference calls.

**5. Teaching Materials**

All the courses undertaken by University of Pisa, Italy will have corresponding teaching materials provided by University of Pisa, Italy, and will be in English; while the remaining courses will be in Chinese or English.

Here is a list of courses and teaching materials where in course code column "C-" refers to Zhejiang Ocean University and "I-" refers to University of Pisa, Italy.

No.	Course Type	Course Code	Course Name	Textbooks to be selected
1	General Courses (6 credits)	C--001	Theory and Practice Research of Socialism with Chinese Characteristics	Textbook compiled by Zhejiang Ocean University.
2		C-002	Introduction to Natural Dialectics	[1] Natural Dialectics (concise version), compiled by Zhejiang Ocean University. [2] The Social Science Research and Ideological and Political Work Department of the Ministry of Education of China. Introduction to Dialectics of Nature. Beijing: Higher Education Press, 2004.
3		C-003	Essential English	Xiong Haihong. University Graduate Student English Series. Beijing: Foreign Language Teaching and Research Press, 2009.
4		C--004	Professional English	Wu Peng et al. Professional English on Food: Science Press, 2014
5	Basic Specialty Courses (10 Credits)	C-005	Introduction to Food Processing Technology	Meng Xianjun. Overview of Food Technology, Beijing: China Agriculture Press, 2009.1
6		I-006	Safety and Quality Control of Aquatic Products	Textbook provided and compiled by University of Pisa, Italy
7		I-007	Storage and Logistics of Agricultural Products	Textbook provided and compiled by University of Pisa, Italy
8		I-008	Food Analysis	Textbook provided and compiled by University of Pisa, Italy
9		C-009	Case Study of Food Safety	Huang Kunlung, Xu Wentao. Food safety case analysis: Science Press, 2013.8
10	Specialty Courses (12 Credits)	I-010	Advances of New Technology in Food Quality	Textbook provided and compiled by University of Pisa, Italy
11		I-011	Advanced Bio-chemistry	Textbook provided and compiled by University of Pisa, Italy
12		I-012	Topics in Fish Zoonosis	Textbook provided and compiled by University of Pisa, Italy
13		C-013	Topics on Comprehensive Utilization of Marine Biological Resources	Textbook provided and compiled by Zhejiang Ocean University
14		I-014	Topics on Sea Food Products Processes	Textbook provided and compiled by University of Pisa, Italy
15		C-015	International Trade and Marketing of Agricultural Products	Textbook provided and compiled by Zhejiang Ocean University
16	Compulsory Sci-tech Activities (7 Credits)	C-016	Academic Activities	
17		C-017	Off-campus Practical Research	

## 6. Faculty Members

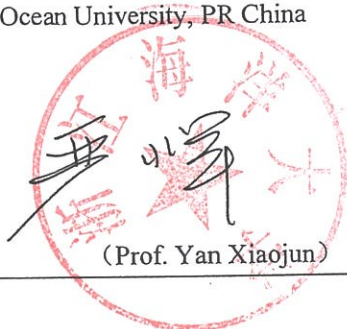
Here is a list of courses and Faculty Members where in course code column "C-" refers to Zhejiang Ocean University and "I-" refers to University of Pisa, Italy.

No.	Course Type	Course Code	Course Name	Teacher	Academic Title
1	General Courses (6 credits)	C--001	Theory and Practice Research of Socialism with Chinese Characteristics	Tang Hongsen	Professor

2	Basic Specialty Courses (10 Credits)	C-002	Introduction to Natural Dialectics	Hu Suqing	Associate Professor
3		C-003	Essential English	Zhou Yaping	Professor
4		C-004	Professional English	Chen Meiling	Lecturer
5		C-005	Introduction to Food Processing Technology	Huo Jiancong	Associate Professor
6		I-006	Safety and Quality Control of Aquatic Products	Alessandra Guidi	Professor
7		I-007	Storage and Logistics of Agricultural Products	Angela Zinnai	Associate Professor
8		I-008	Food Analysis	Marcello Mele	Associate Professor
9		C-009	Case Study of Food Safety	Miao Wenhua	Research Assistant
10		Specialty Courses (12 Credits)	I-010	Advances of New Technology in Food Quality	Francesca Venturi
11	I-011		Advanced Bio-chemistry	Anna Maria Ranieri	Professor
12	I-012		Topics in Fish Zoonosis	Filippo Fratini	Associate Professor
13	C-013		Topics on Comprehensive Utilization of Marine Biological Resources	Chen Xiaoe	Professor
14	I-014		Topics on Sea Food Processes Products	Andrea Armani	Associate Professor
15	C-015		International Trade and Marketing of Agricultural Products	Fang Xubo	Professor
16	Compulsory Sci-tech Activities (7 Credits)	C-016	Academic Activities		
17		C-017	Off-campus Practical Research		

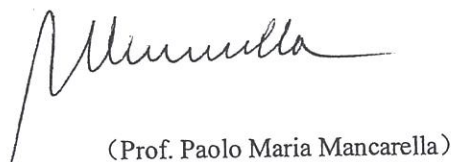
This educational plan is agreed by both parties. Faculty members can be changed according to practical conditions of the respective parties.

Zhejiang Ocean University, PR China  
Rector



(Prof. Yan Xiaojun)

University of Pisa, The Republic of Italy  
Rector



(Prof. Paolo Maria Mancarella)



(Seal of Party A)  
Date: Jan. 10, 2018



(Seal of Party B)  
Date: Jan. 10, 2018