

Annex I (2) :

Educational Plan (Food and Nutrition)

1.Training Objective

The Master's Program in Food and Nutrition is designed to serve the development of modern agriculture and the food industry, aiming to cultivate high-calibre professionals for relevant enterprises, institutions, and governmental departments. Graduates shall possess a solid foundation of theoretical knowledge, broad and comprehensive professional expertise, as well as related competencies in management, the humanities, and social sciences; exhibit sound professional ethics, strong innovative consciousness, and modern concepts in food and nutrition; demonstrate the capacity for independent problem-solving and an entrepreneurial spirit; and be able to undertake specialized technical or managerial responsibilities independently.

Furthermore, graduates of this program are expected to have a broad international perspective, a high level of proficiency in English, familiarity with international rules and standards, and the ability to engage in cross-cultural communication, collaborate, and participate in global competition.

2. Enrollment, Graduation Requirements, Certificates and Diplomas

(1) Enrollment criteria

This program is included in China's national postgraduate enrollment plan. Chinese candidates shall participate in the National Entrance Examination for Master's Degree Candidates and be admitted in accordance with the national enrollment policies for master's programs. If students from the University of Pisa intend to participate in this program, admissions shall be implemented in accordance with the relevant regulations for international postgraduate students studying in China.

For Chinese students, the English proficiency requirement is a minimum score of 450 in the CET-4 (College English Test Band 4). For Italian students, the English requirement is level B2 or above under the Common European Framework of Reference for Languages (CEFR).

(2) Graduation Requirements

Zhejiang Ocean University (ZJOU): the same graduation requirements as those for non-program students.

University of Pisa: In addition to meeting Zhejiang Ocean University's graduation requirements, candidates must write their master's thesis in English and successfully defend it before an expert panel composed of representatives from both universities.

(3) Degrees and Certificates

Students who have completed all the courses as stipulated in the program curriculum and have passed the required assessments will be awarded the Master's Graduation Certificate of Zhejiang Ocean University (major in Food and Nutrition). Those meeting the degree conferral criteria of Zhejiang Ocean University will be granted the Professional Master's Degree in Food and Nutrition.

Students who meet the degree conferral criteria of the University of Pisa will be awarded the Master's Degree in Food Biosafety and Quality.

UNIPi students who meet the degree awarding requirements of UNIPi, spend at least one semester (the second semester of the second year since the enrolment at UNIPi) of studying and doing thesis research at ZJOU, shall be granted by Zhejiang Ocean University (ZJOU) the ZJOU Master Student Graduation Certificate of Higher Education (Marine Biology Specialty). The research activity during the semester will be supervised by both ZJOU and UNIPi. UNIPi students are also required to publish one research paper before the degree defense at ZJOU. Alternatively, the research paper must be at least submitted, accepted for review and positively assessed by two supervisors, one from ZJOU and one from UNIPi, before the defense. In this latter case UNIPi students will be conferred the master's degree after the paper publication.

3. Teaching Management

(1) A Joint Teaching Committee for the cooperative education program shall be established, as stipulated in the Constitution of the Zhejiang Ocean University – University of Pisa Marine Graduate School.

(2) The Teaching Committee shall consist of five members, namely: the Dean, the Vice Dean, the Assistant to the Dean, and the heads of the corresponding programs currently offered at Zhejiang Ocean University and the University of Pisa.

(3) Assessment Standards: The program has a duration of three years and adopts the “3+0” model, meaning that all study is completed at Zhejiang Ocean University. The minimum graduation requirement is 28 credits.

4. Teaching Schedule

- Discipline name: Food and Nutrition
- Discipline code: 095500
- Program Duration: 3 years
- Total academic hours of all the courses (with 1 credit of off-campus practical research being accounted as 16 academic hours): 374 hours
- Credits needed for graduation: 28
- Master's Thesis: Mandatory; carries no credits under the Chinese side's system, but is credit-bearing under the Italian side's system. Apart from the requirement that the thesis be written in English, all other requirements are identical to those for regular postgraduate students at Zhejiang Ocean University.

Course Category	Course Name	Total Academic Hours	Credits	ECTS Credits	Semester	Teaching Party
General Courses (6 Credits)	Theory and Practice of Scientific Socialism	36	2	5	1	ZJOU
	Dialectics of Nature	18	1	3	1	ZJOU
	Basic English	32	2	8	1	ZJOU

	Professional English	16	1	2	1	ZJOU
Basic Specialty Courses (8 Credits)	Introduction to Food Processing Technology	32	2	4	1	ZJOU
	Seafood Safety and Quality	24	1.5	3	1	UNIPi
	Unit Operations in Food Processing	24	1.5	3	1	UNIPi
	Nutritional Quality of Animal-based Food	24	1.5	3	2	UNIPi
	Case Study of Food Safety	24	1.5	3	1	ZJOU
Specialty Courses (7 Credits)	Chemical, Physical and Sensory Properties of Foods	24	1.5	3	2	UNIPi
	Advanced Biochemistry	24	1.5	3	2	UNIPi
	Microbiological Risks of Seafood in a One Health Approach	24	1.5	3	2	UNIPi
	Topics on Comprehensive Utilization of Marine Biological Resources	16	1	2	2	ZJOU
	Topics on Hygiene and Control of Processed Fish Products	24	1.5	3	2	UNIPi
Compulsory Sci-tech Activities (7 Credits)	Academic Activities (four weeks in University of Pisa)		1	16	1-4	ZJOU UNIPi
	Off-campus Practical Research		6	34	/	ZJOU
	Master Thesis	/	pass	22	3-6	ZJOU
					3-4	UNIPi
Total	/	342	28	120	/	/

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 the 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 the University of Pisa, Italy, versus all the courses in the Educational Plan is $7/14=50\%$;

3. The ratio of the imported core courses from the University of Pisa, Italy, versus all the core courses in the Educational Plan is $7/10=70\%$;

4. The ratio of the undertaken core courses by the teachers from the University of Pisa, Italy, versus all the courses in the Educational Plan is $7/14=50\%$;

5. The ratio of the academic hours of the core courses undertaken by the teachers from the University

of Pisa versus the total academic hours in the Educational Plan is $168/342=49.12\%$;

6. The ratio of the credits of the core courses undertaken by the teachers from the University of Pisa versus the total credits in the Educational Plan is $10.5/21=50\%$;

7. The teachers from the University of Pisa shall attend the dissertation proposal, its mid-term evaluation and its oral defence, and will supervise dissertation writing through e-mail.

5. Teaching Materials

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

Here is a list of courses and teaching materials, where the course code column “C-” refers to Zhejiang Ocean University and “I-” indicates the 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 of Scientific Socialism	Textbook compiled by Zhejiang Ocean University.
2		C—002	Dialectics of Nature	[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, 2025.
3		C—003	Basic English	Xiong Haihong. University Graduate Student English Series. Beijing: Foreign Language Teaching and Research Press, 2022.
4		C—004	Professional English	Cui Ling et al. New Era Academix English for Graduate Students: Shanghai Foreign Language Education Press, 2024
5	Basic Specialty Courses (8 Credits)	C—005	Introduction to Food Processing Technology	Meng Xianjun. Overview of Food Technology, Beijing: China Agriculture Press, 2009.1
6		I—006	Seafood Safety and Quality	Textbook provided and compiled by University of Pisa, Italy
7		I—007	Unit Operations in Food Processing	Textbook provided and compiled by University of Pisa, Italy
8		I—008	Nutritional Quality of Animal-Based Food	Textbook provided and compiled by University of Pisa, Italy
9	Specialty Courses (7	C—009	Case Study of Food Safety	Huang Kunlung, Xu Wentao. Food Safety Case Analysis: Science Press, 2013.8
10		I—010	Chemical, Physical and Sensory Properties of	Textbook provided and compiled by University of Pisa, Italy

	Credits)		Foods	
11		I-011	Advanced Biochemistry	Textbook provided and compiled by University of Pisa, Italy
12		I-012	Microbiological Risk of Seafood in One-Health Approach	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 Hygiene and Control of Processed Fish Products	Textbook provided and compiled by University of Pisa, Italy

6. Faculty Members

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

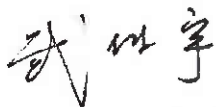
No.	Course Type	Course Code	Course Name	Teacher	Academic Title
1	General Courses (6 credits)	C-001	Theory and Practice of Scientific Socialism	Gu Xieguo	Professor
2		C-002	Dialectics of Nature	Yang Juping	Associate Professor
3		C-003	Basic English	Zhang Lei	Professor
4		C-004	Professional English	Ying Xiaoguo	Associate Professor
5	Basic Specialty Courses (8 Credits)	C-005	Introduction to Food Processing Technology	Huo Jiancong	Professor
6		I-006	Seafood Safety and Quality	Andrea Armani	Full Professor
7		I-007	Unit Operations in Food Processing	Isabella Taglieri	Associate Professor
8		I-008	Nutritional Quality of Animal-Based Food	Andrea Serra	Associate Professor
9		C-009	Case Study of Food Safety	Miao Wenhua	Associate Professor
10	Specialty Courses (7 Credits)	I-010	Chemical, Physical and Sensory Properties of Foods	Chiara Sanmartin	Associate Professor
11		I-011	Advanced Biochemistry	Costanza Ceccanti	Research Assistant
12		I-012	Microbiological Risk of Seafood in One-Health Approach	Mario Forzan	Associate Professor

13		C-013	Topics on Comprehensive Utilization of Marine Biological Resources	Chen Xiaoe	Professor
14		I-014	Topics on Hygiene and Control of Processed Fish Products	Roberta Nuvoloni	Associate Professor
15	Compulsory Sci-tech Activities (7 Credits)	C-015	Academic Activities		
16		C-016	Off-campus Practical Research		

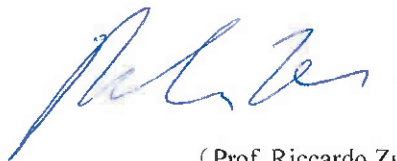
This educational plan is agreed by both parties. It could be revised later on according to practical conditions.

Zhejiang Ocean University, PR China
Rector

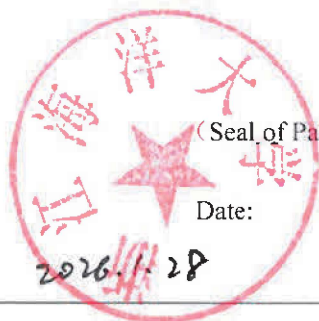
University of Pisa, The Republic of Italy
Rector



(Prof. Wu Chuanyu)



(Prof. Riccardo Zucchi)



(Seal of Party A)

Date:

(Seal of Party B)

Date:

28/01/2026



UNIVERSITÀ DI PISA