



ISO 9001:2015

Water treatment in food industry



EXPECTED LEARNING OUTCOMES OF PROGRAMME (PLOs)

General knowledge

PLO 1

Apply natural, social, technical and economic knowledge to solve problems in preservation, processing, testing, and research and development of food products.

Professional knowledge

PLO 2

Formulate production procedures based on the analysis of technical factors to ensure and enhance product quality

PLO 3

Design quality management systems for processing plants to ensure food hygiene and safety.

Soft-skills

PLO 4

Perform work planning, demonstrate creatively critical thinking, work independently and effectively as a team leader or member

PLO 5

Demonstrate communication skills and use specialized English in food technology.

Professional skills

PLO 6

Operate production equipment in food manufacture factories

PLO 7

Analyse product quality criteria in food preservation and processing procedures.

PLO 8

Design research to address technological and regulatory problems in the food industry through the evaluation of information, scientific data and information technology applications.

Attitude

PLO 9

Work professionally, maintain professional ethics, social responsibility, and demonstrate personal physical development.

PLO 10

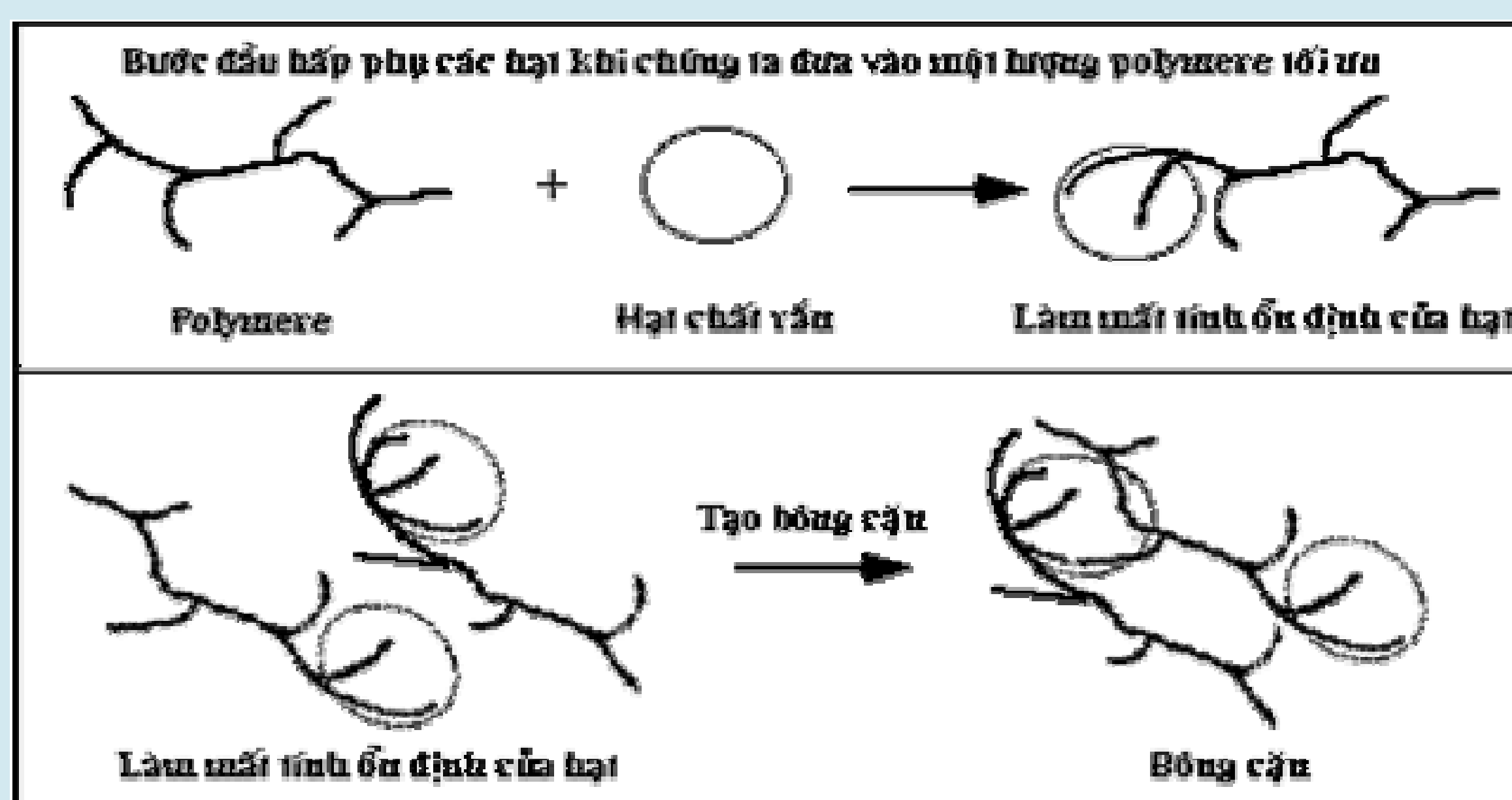
Demonstrate the spirit of entrepreneurship and life-long learning

Course description:

- ✓ The course helps equip students with the basic knowledge:
- ✓ Introduction to water sources in nature, describing the process of treating water supply and wastewater in general.
- ✓ The methods of treating the feed water of different water sources.
- ✓ Wastewater sources in technology, analysis, evaluation and treatment of wastewater sources in the food industry

COURSE CONTENT	CELOs
Chapter 1. Determination of general water requirements for food production	CELO 1; 4; 5
Chapter 2. Determining the supply water treatment process	CELO 1; 2; 3
Chapter 3. Determination of wastewater treatment process	CELO 2; 4; 5
Chapter 4. Analysis of some indicators of water quality analysis	CELO 2; 4; 5; 6

	EXPECTED LEARNING OUTCOME OF COURSE (CELOs)	PLOs
Knowledge		
CELO 1	Apply general water and wastewater treatment processes	PLO 1; 2
CELO 2	Applying parameters to assess water quality	PLO 2; 3
Professional skills		
CELO 3	Analyze some indicators of water quality	PLO 4; 6; 8
CELO 4	Analysis of problems related to water supply and wastewater in food technology	PLO 4; 7; 8
Attitude		
CELO 5	Follow the rules well during the learning process	PLO 9
CELO 6	Solve problems during group work.	PLO 9



LEARNING CONTENT

- Students read reference materials before coming to class
- Lecturers give presentations using Power point.
- Students interact, exchange group work in class
- Implement homework content on E-learning system.
- Practice on the computer and submit assignments

LEARNING METHODS	Course assessment	percentage%
Evaluation of the process	learning attitude	10%
	Writing test	20%
	Practice report	20%
End-of-course assessment	Writing test	50%

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LECTURERS

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