Course Unit Descriptor

Study Programme: Food engineering

Course Unit Title: Quality control of packaging and packing

Course Unit Code: KKO 406

Name of Lecturer(s): Associate Professor Senka Popović

Type and Level of Studies: Undergraduate Academic Studies

Course Status (compulsory/elective): Compulsory for study field (module) Quality control

Semester (winter/summer): summer

Language of instruction: English

Mode of course unit delivery (face-to-face/distance learning): Face-to-face

Number of ECTS Allocated: 4

Prerequisites: None

Course Aims:

The goal and task of educational work on the course is to form highly educated experts in the food industry in quality control of packaging materials, packaging design and packing process control.

Learning Outcomes:

The primary outcome of the course is trained student who independently organizes and manages the quality management of packaging materials, packaging and packing process in a specific work organization.

Mastering the necessary knowledge and training of experts for professional, scientific and pedagogical work in the field of quality control and quality management of production technologies and application of packaging materials and packaging.

Syllabus:

Theory

Introduction to the characteristics of packaging materials and packaging and their proper application in the process of packaging food products. Identification of control (critical) points in the HACCP system related to the reception and use of packaging materials and packaging. Introduction to the input, process and final control of packaging materials and packaging in the food industry.

Practice

Introduction with methods of control of dimensional, physical-mechanical, barrier and structural properties of packaging materials and packaging. Testing of metal, glass, paper, cardboard, polymer mono and multilayer packaging. Quality control of new, biodegradable packaging materials based on natural (bio-) and synthetic polymers.

Required Reading:

1. Crnčević, V. Ambalaža za životne namirnice, Privredni pregled, Beograd, 1980.
2. Stričević, N. Suvremena ambalaža I i II, Školska knjiga, Zagreb, 1983.
3. Curaković, M., Vujković, I., Gvozdenović, J., Lazić, V. Kontrola ambalažnih materijala i ambalaže: praktikum, Tehnološki fakultet, Novi Sad, 1992.
4. Vujković, I.Polimerna i kombinovana ambalaža, Poli, Novi Sad, 1997.
5. Vujković, I., Galić, K., Vereš, M.:Ambalaža za pakiranje namirnica, Tectus, Zagreb, 2007.
6. Lazić, V., Novaković, D., Ambalaža i životna sredina, Tehnološki fakultet Novi Sad, Novi Sad, 2010
7. Popović, S., Hromiš, N., Lazić, V., Kontrola kvaliteta ambalaže i pakovanja: praktikum sa radnom sveskom [Elektronski izvor], Tehnološki fakultet Novi Sad, Novi Sad, 2022.

Weekly Contact Hours:	**Lectures:** 2	**Practical work:** 3
Teaching Methods: Interactive lectures using video presentation, laboratory work - independent or in small groups, practical work in industry, consultations.		
Knowledge Assessment (maximum of 100 points):		

Pre-exam obligations	points	**Final exam**	points
Active class participation	5	written exam	
Practical work	25	oral exam	30
Preliminary exam(s)	40	…….	
Seminar(s)			

The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.