

Study Programme: Clothing engineering
Course Unit Title: Home textiles design
Course Unit Code: OAS157
Name of Lecturer(s): Assistant professor Nadiia Bukhona, PhD
Type and Level of Studies: Scientific and professional
Course Status (compulsory/elective): Compulsory
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: 3
Prerequisites: Doesn't have
Course Aims: Acquiring knowledge about the techniques and parameters of designing home textiles
Learning Outcomes: Students are trained to design home textiles in accordance with industrial production requirements.
Syllabus: <i>Theory:</i> Development of industrial production of home textiles worldwide and in Serbia. Types and selection of parameters for designing home textiles. Key functions of engineering design of home textiles. Design of home textiles based on mechanical properties of flat textile products. Analysis of the relationship between fabric mechanics as a complex geometric structure, its reshaping, and the quality of manufactured home textile products. Shaping ability. Engineering design of bed linens from the perspective of thermal-physiological and skin-sensory comfort. Importance of microclimate between the body and bed linens for comfort perception. Division of home textile production technology according to product types. Standards related to home textiles. Role of technical preparation in technological processes of home textile manufacturing. Interconnection of technical preparation and production processes of home textiles; connection of technical preparation with construction, technological, and operational preparation. Development of technological operation plans and technological process plans. CAD system in structural preparation. Transformation of pattern parts on CAD/CAM systems. <i>Practice:</i> Through exercises (and project work), students process the elements of designing home textiles.
Required Reading: <ol style="list-style-type: none"> 1. D. Jašić; Designing of textile constructions and apparel; Faculty of Textile Technology, Ljubljana; 2007. 2. Designing of textile constructions I; Faculty of Textile Technology, Ljubljana; 1988. 3. D. Jašić; Designing of textile constructions II; Faculty of Textile Technology, Ljubljana; 1988. 4. D. Rogale, D. Ujević, S.F. Rogale, M. Hrastinsk: Clothing manufacturing processes; Textile/Technological Faculty, University of Zagreb; 2011. 5. Z. Trajković; Clothing technology – collection of solved problems with fundamentals of theory; Technological Faculty, Leskovac; 1985. 6. B. Knez; Technological processes of clothing production; Technological-Textile Faculty, Zagreb; 1990.

7. Z. Trajković; Clothing production technology Part I; Technological Faculty, Leskovac; 1997.
8. Z. Trajković; Clothing production technology Part II; Technological Faculty, Leskovac; 1998.
9. N. Mihajlović; Machines and devices in the clothing industry; ETS, Belgrade; 1985.
10. G. Nikolić; Mechanisms of machines for clothing production; Textile-Technological Faculty, Zagreb; 2000.

Weekly Contact Hours: 5

Lectures: 2

Practical work: 3

Teaching Methods:

Verbal teaching methods. Illustrative teaching methods. Demonstration teaching methods. The primary goal is laboratory-experimental methods using computers.

Knowledge Assessment (maximum of 100 points):

Pre-exam obligations	points	Final exam	points
Active class participation	10	written exam	20
Practical work		oral exam	20
Preliminary exam(s)	30		
Project(s)	20		

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