

Study Programme: Garment engineering			
Course Unit Title: Garment sewing technology			
Course Unit Code: DAS116			
Name of Lecturer(s): Assistant Professor Ineta Nemeša			
Type and Level of Studies: Master Academic Degree			
Course Status (compulsory/elective): Elective			
Semester (winter/summer): Winter			
Language of instruction: English			
Mode of course unit delivery (face-to-face/distance learning): Face-to-face			
Number of ECTS Allocated: 6			
Prerequisites: None			
Course Aims: To know principles of thread stitching and stitch classification in accordance with ISO 4915 standard. To acquire the main stitch types used in garment manufacturing, their formation principles, qualities and application. To know classification of industrial sewing machines based on the stitch type they perform. To acquire the main types of industrial sewing machines, their general characteristics, stitch formation principles and application.			
Learning Outcomes: After finishing the study course the students are able to select correct stitch types and corresponding to them sewing equipment to manufacture different kind of garments from different kind of textile materials.			
Syllabus: <i>Theory</i> Stitch classification in accordance with ISO 4915 standard. Stitches of all classes, their formation principles, qualities and application: classes 100, 200, 300, 400, 500 and 600. Classification of industrial sewing machines based on the stitch type. Sewing needles. Material feeding systems. Bed types of sewing machines. Lockstitch class 300 sewing machines, one and two thread chainstitch class 100 and 400 sewing machines, coverstitch class 400 sewing machines, overedge chainstitch class 500 sewing machines, coverstitch class 600 sewing machines, bar-tacking machines, buttonhole-sewing machines, button-sewing machines. Automated workstations. <i>Practice</i> Thread consumption calculations, sewing needle selection, selection of sewing equipment for manufacturing of different kind of garments			
Required Reading: 1. J. Jones, G.K. Stylios. Joining textiles. Principles and applications. Woodhead publishing 2013. 2. R. Nayak., R. Padhye. Garment manufacturing technology. Elsevier ,2015. 3. R. Nayak., R. Padhye. Automation in garment manufacturing. Elsevier 2017.			
Weekly Contact Hours: 4	Lectures: 2		Practical work: 2
Teaching Methods: Lectures and students group work			
Knowledge Assessment (maximum of 100 points): 100			
Pre-exam obligations	points	Final exam	points
Active class participation	10	written exam	20
Test I and Test II	40	oral exam	30
Preliminary exam(s)			
Seminar(s)			