Course unit title	**MANUFACTURING TECHNIQUE OF THE CERAMIC DENTURE AND DIGITAL TECHNOLOGIES**
Course unit code	-
Type of course unit	I st
Level of course unit	Compulsory
Year of study (if applicable)	2
Semester/	4
Number of ECTS credits allocated	9
Name of lecturer(s)	Valdas Mameniškis, Jaunius Mickus, Paulius Šakalis
Learning outcomes of the course unit	Is able to select suitable materials for metal-ceramic dentures according to individual needs and material quality Modelling the wax structures of metal ceramic dentures Scanning models and modelling frameworks in CAD/CAM for metal-free ceramic structures Determines the relationship between jaws and teeth in the virtual and working articulator. Designs and constructs high-quality ceramic dentures according to the individual characteristics of the patient's teeth, using digital technology and colour keys. Is able to describe the technology used to manufacture ceramic dentures, assessing the quality of the denture produced.
Mode of delivery	face-to-face
Prerequisites and co-requisites	Dental functional anatomy, aesthetics and modelling, Dental technological materials, Fundamentals of fixed dental prosthesis fabrication, Fixed dental prosthesis technology
Course contents	Basic principles for the layering of ceramic masses on metallic bases. Pressed ceramic restorations. Making liners and overlays from pressed ceramics. Model scanning, software work. Dental scanning and modelling with CAD system
Planned learning activities and teaching methods	Lectures, demonstrations, individual work, laboratory work
Assessment	Study results of the final assessment is calculated as follows: FA = 50%E + 50%CS FA – Final Assessment 50%CS=40%CaS+40%P+20%T CS – Cumulative Score CaS – case study P – Practicum T – Testing
Language of instruction.	Lithuanian, Russian, English
Work placement(s)	Dental Laboratory of Utena College Students manufacture denture using these materials: HeraCeram (http://www.heraeus-kulzer.com). Zfx CAD system