Course unit title	MANUFACTURING TECHNOLOGY OF LOCKING ARC SUPPORTING DENTAL PROSTHESIS
Course unit code	DT(SK)/5-4
Type of course unit	Compulsory
Level of course unit	First cycle
Year of study (if applicable)	Third year
Semester/	Fall semester
Number of ECTS credits allocated	9 ECTS
Learning outcomes of the course unit	**Upon completion of the course unit, students will be able to**: LO1. Select appropriate materials and apply suitable technologies for the fabrication of locking arc supporting dental prostheses according to individual needs. LO2. Model wax constructions of locking arc supporting dental prostheses. LO3. Evaluate individual patient dental characteristics when selecting artificial teeth and locking systems. LO4. Plan and construct high-quality combined locking arc supporting dental prostheses. LO5. Select appropriate technology and perform repairs of arc supporting dental prostheses.
Mode of delivery	Blended learning
Prerequisites and co-requisites	Students must have completed Dental Functional Anatomy, Aesthetics and Modelling, Dental Technological Materials, and Manufacturing Techniques of Arc Dentures.
Course contents	Locking arc supporting dental prostheses. Digital technologies. Clinical and laboratory stages of fabrication and maintenance of locking arc supporting dental prostheses. Biomechanics of arc dentures. Repair and soldering of metal frameworks of arc dentures. Fabrication and evaluation of working models. Computer-aided design of crowns with locks using CAD software. Duplication, production of refractory duplicated models, preparation of wax frameworks for casting, casting and unpacking. Fitting, finishing and polishing of metal frameworks with locks. Denture base modelling, tooth arrangement, polymerisation, grinding and polishing. Repairs, soldering and maintenance of locking arc supporting dental prostheses.
Planned learning activities and teaching methods	Evaluation discussion, simulations based on fictional scenarios or real situations, experiential guidance, case analysis, individual work, comparison methods, analysis of advanced practice, and independent work.
Assessment	Examination. The final assessment is cumulative: examination – 50%, feedback assessment – 10%, average of interim assessments – 40%. Interim assessments consist of case analysis – 40%, testing – 20%, and practical work – 40%.
Language of instruction.	English
Work placement(s)	Utenos kolegija Higher Education Institution Faculty of Medicine Dental Laboratory