

SELECTIVE DISCIPLINE

for 1st year students of the Faculty of Dentistry

2020-2021 academic year

Discipline	APPLIED CHEMISTRY IN DENTISTRY
Department	Medicinal and pharmaceutical chemistry
Teachers	Okrepka Halyna – lecturer, Degree of the Candidate of Chemical Science, Ph.D in Solid State Chemistry
Brief description of the scope of the subject	<p>Dental materials science is an interdisciplinary field in which chemistry plays a major part. Advances in chemistry have helped us develop effective pain relief, design more robust materials for fillings, and find better ways to repair and replace teeth. This science plays a number of roles in dentistry, from helping prevent cavities to whitening teeth. That's why understanding chemistry is a pillar of dental comprehension which helps you to accurately and predictably achieve successful results.</p> <p>The subject covers inorganic and organic chemistry with focus on medicinal chemistry and dental materials such as alloys, amalgams, dental cements, silicates and plastic. Student is supposed to master basic tasks in chemical laboratory including inorganic and organic analysis, and gets acquainted with usage of dental materials.</p>
Providing general and professional competencies	<p>GC 1 Ability to abstract thinking, analysis and synthesis.</p> <p>GC 2 Knowledge and understanding of the subject area and understanding of professional activity.</p> <p>GC 3 Ability to apply knowledge in practice.</p> <p>PC 1 Ability to collect medical information about the patient and analyze obtained clinical data.</p> <p>PC 2 Ability to interpret the result of laboratory and instrumental examination.</p> <p>PC 3 Ability to diagnose: determine the preliminary, clinical, final, concomitant diagnosis, emergency conditions.</p> <p>PC 4 Ability to plan and implement measures for the prevention of diseases of organs and tissues of the oral cavity and maxillofacial area.</p>