

  
**Volodymyr GELMBOLDT**  
**“29” august 2024 year**

**CALENDAR - THEMATIC PLAN OF PRACTICAL CLASSES**  
**the course "Chemistry of cosmetics" for the IV-year students**  
**International Faculty in 2024-2025 academic year**

No	Study of subject and content	The amount in hours	Group	Who teaches	Equipment classes	Date	Place of classes
1	2	3	4	5	6	7	8
1.	State regulation of the development, production and sale of perfumery and cosmetic products in Ukraine.	2	4-5	Ivan SHYSHKIN	The visual material	according to the timetable	Department of Pharm.Chem.
2.	Morphology and physiology of the skin and its appendages. Methods of determining skin types and other clinical characteristics.	2	4-5	Ivan SHYSHKIN	The visual material	according to the timetable	Department of Pharm.Chem.
3.	Alcohols and phenols in cosmetics. Physical and chemical properties. Possibilities of use in cosmetics.	2	4-5	Ivan SHYSHKIN	The visual material	according to the timetable	Department of Pharm.Chem.
4.	Carboxylic acids and hydroxy acids in cosmetics. Physical and chemical properties. Possibilities of use in cosmetics.	2	4-5	Ivan SHYSHKIN	The visual material	according to the timetable	Department of Pharm.Chem.
5.	Fats, waxes and oils in cosmetics. Physical and chemical properties. Possibilities of use in cosmetics.	2	4-5	Ivan SHYSHKIN	The visual material	according to the timetable	Department of Pharm.Chem.
6.	Polysaccharides in cosmetics. Physical and chemical properties.	2	4-5	Ivan SHYSHKIN	The visual material	according to the timetable	Department of Pharm.Chem.
7.	Polysaccharides in cosmetics. Possibilities of use in cosmetics.	2	4-5	Ivan SHYSHKIN	The visual material	according to the timetable	Department of Pharm.Chem.
8.	Amino acids and proteins. Physical and chemical properties. Possibilities of use in cosmetics.	2	4-5	Ivan SHYSHKIN	The visual material	according to the timetable	Department of Pharm.Chem.
9.	Inorganic compounds. Physical and chemical properties. Possibilities of use in cosmetics.	2	4-5	Ivan SHYSHKIN	The visual material	according to the	Department of Pharm.Chem.

10.	SPF products. Types of UV filters, their characteristics.	2	4-5	Ivan SHYSHKIN	The visual material	according to the timetable	Department of Pharm.Chem.
11.	Dyes in cosmetic products. Hair dyes.	2	4-5	Ivan SHYSHKIN	The visual material	according to the timetable	Department of Pharm.Chem.
12.	Surfactants in cosmetics. Anionic, cationic, amphoteric, nonionic surfactants.	2	4-5	Ivan SHYSHKIN	The visual material	according to the timetable	Department of Pharm.Chem.
13.	Emulsifiers. Emulsifiers of the first and second kind. Emulsifying mixtures.	2	4-5	Ivan SHYSHKIN	The visual material	according to the timetable	Department of Pharm.Chem.
14.	Flavorings. Natural (essential oils) and synthetic (esters of carboxylic acids).	2	4-5	Ivan SHYSHKIN	The visual material	according to the timetable	Department of Pharm.Chem.
15.	Antioxidants. Water-soluble and lipid-soluble antioxidants. Plant extracts with antioxidant properties.	2	4-5	Ivan SHYSHKIN	The visual material	according to the timetable	Department of Pharm.Chem.
<b>Total</b>		<b>30</b>					

**The head of the educational part  
of the Department of Pharmaceutical Chemistry  
and Drug Technology**



**Oleksii NIKITIN**