Name of science	Organic chemistry
Subject/module code	OK206
Semester(s) in which the	4 semesters
subject is taught.	
Responsible teacher	Sultanov Marat Mirzaevich, Doctor of Chemical Sciences, Professor
	Murodova Dilafruz Kadirovna, Candidate of Sciences, Associate
Language of instruction	Professor Uzbek
Language of instruction Connect to the curriculum	Optional
Study hours (including contact	Total hours - 180.
hours, independent study )	Auditory training hours - 90.
,,,,,,,, .	Lecture hours – 40.
	Laboratory training hours – 50.
	Independent study hours – 90.
ECTS	6
Prerequisites/Relationship to	General chemistry, inorganic chemistry, analytical chemistry,
disciplines	chemical calculation
Objectives/learning outcomes	The student should have an understanding of the main classes of
of the subject	organic compounds, master the methods of identification of organic
	compounds, be able to predict the properties of organic compounds and their synthesis routes, as well as possible mechanisms of
	transformations. The student should have practical skills in
	chemical synthesis and identification of organic compounds.
	Educational outcomes
	- to know the place of organic chemistry among other chemical and
	natural sciences;
	-write the main classes of organic compounds, synthesis methods,
	properties, spatial and electronic structure;
	- identify the main types of organic reactions and the mechanisms of
	their development; - can distinguish the main methods of studying the structure,
	composition and properties of organic compounds;
	- classify the role of the main classes of organic compounds in
	living nature, their ways of formation, functions, and
	transformations;
	- can distinguish the main applications of organic compounds in
	industry, agriculture, everyday life, medicine and other areas.
	- simplify the process of formulating and solving specific problems
	based on the laws and regulations studied in the organic chemistry
	course;
	- use safety rules and basic methods of working with organic substances when working in a chemical laboratory:
	- Explain how to work with chemicals according to safety standards
	and perform simple synthesis of organic compounds in the
	laboratory.
	- use standard instrumental methods to study organic substances and
	materials
	- recognize and emphasize the requirements for designing and
	presenting work results in the field of organic chemistry
	- to describe and present the results of scientific work in writing in
	accordance with the requirements for a coursework in the relevant area of chemistry
Course content (topics)	Content.
content (topics)	1.Organic chemistry. Description of organic compounds.
	O are entranced, a companion of organic compounds

	2. Organic chemistry lessons.
	3. Chemical bonds in organic chemistry. Types of bond formation
	4. Saturated hydrocarbons. Production methods. Industrial use.
	5. Oil and oil refining enterprises.
	6.Petroleum products.
	7. Saturated halogenated compounds of hydrocarbons and their
	properties.
	8. Cycloalkanes, physical and chemical properties, uses
	9. Unsaturated hydrocarbons. Occurrence and use in nature.
	10. Acetylene extraction properties
	11. Oxalic acid. Physical and chemical properties, industrial
	applications.
	12. Methyl alcohol and its uses.
	13. Medical uses of alcohol
	14.Esters and epoxides. Physical and chemical properties, industrial
	applications.
	15. Methods for obtaining aldehydes and ketones, aldol
	condensations.
	16. Carboxylic acids, electronic structure, occurrence in nature, uses.
	17. Monobasic unsaturated carboxylic acids. Nomenclature,
	isomerism
	18. Acrylic acid esters, polymerization reactions.
	19.Methacrylic acid esters, polymerization
	20. Preparation and application of organic glass
	21. Sorbic acid - use as a preservative in the food industry
	22. Oils. Occurrence in nature, extraction.
	23. Oils. Occurrence in nature, extraction.
	24. Unsaturated carboxylic acids, their production, occurrence in
	nature and properties
	25. Soaps, their production and properties.
	26. Artificial detergents and their production and properties
	27.Organometallic (organometallic and organosilicon) compounds
	28. Organometallic compounds containing phosphorus and arsenic
	29. Oxides. Dibasic oxide acids. Lactic acid
	30. Aldehyde and keto acids. Glyoxylic acid, acetoacetic acid
	31. Chemical properties of amino acids.
	32. Heterocyclic amino acids
	33. Aromatic hydrocarbons. Benzene.
	34. Toluene and its compounds, properties
	35. Nitro compounds of aromatic hydrocarbons
	36. Aromatic aldehydes and ketones
	37. Aromatic sulfonic acids and their properties
	38. Aromatic carboxylic acids and their properties
	39. Phenol – structure, properties, uses
	40. Aromatic alcohols - preparation, properties.
	V. Coursework topics and requirements for them . Coursework
	on the application of information technologies in professional
	activities is not recommended according to the curriculum.
Exam form	Writing
Educational outcomes and	Complete mastery of theoretical and methodological concepts on
exam requirements	the topic, the ability to correctly reflect the results of the analysis,
1-1	independently reflect on the processes being studied, and complete
	tasks in current and intermediate forms of assessment, as well as
	tasks for final assessment.
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	The student must have submitted current tests, intermediate tests, and independent learning assignments and final tests in the relevant subject within the specified time period.  A student who has not submitted current control, intermediate control, and independent learning assignments, as well as who has scored in the range of "0-29.9" for these assignments and control type, will not be included in the final control type.  Also, a student who misses 25 percent or more of the classroom hours allocated to a subject without an excuse will be expelled from that subject, will not be allowed to take the final exam, and will be considered to have not acquired the appropriate credits in that subject.  A student who has not passed the final exam or who has not passed the final exam and has scored in the range of "0-29.9" for this type of exam is considered an academic debtor.
Recommended readings	<ol> <li>Abdusamatov A. Organic Chemistry. Tashkent, 2005.</li> <li>Umarov B. Organic chemistry. Tashkent: Economics and Finance. 2007.</li> <li>Sobirov Z. Organic chemistry . Tashkent. 1999.</li> <li>Aloviddinov K., Tuychiev K., Practical exercises in organic chemistry . T.: Uzbekistan . 1997.</li> <li>Ahmedov KN, Yu'ldoshev XY Methods of organic chemistry / Tashkent. – University. – 2003. – 252 pages.</li> <li>Shoymardonov RA Organic chemistry . Questions, Problems and Exercises/Tashkent Educational2008.</li> <li>Akhmedov QN, Abdushukurov AK, Tojimukhamedov HS, Yu'ldoshev AM Text of lectures from the general course of organic chemistry . T.: "Universitet". 2000. 122 p.</li> <li>https://unilibrary.uz/</li> <li>www.ziyouz.uz</li> <li>http://www.uzedu.uz/</li> </ol>