

**Thematic plan of the lectures in epidemiology for 3rd year FIS students**  
 The thematic plan was approved at a meeting of the Department of Epidemiology and evidence-based medicine (minutes No. dated September 02, 2024)

№п/п	Topic and content of the lectures
1.	<p><b>General epidemiology.</b></p> <p>1. Epidemiology as a science and academic discipline, its place in the structure of the medical sciences</p> <p>2. Modern teaching about the epidemic process</p>
2	<p><b>Basics of immunoprophylaxis of infectious diseases</b></p> <p>2.1. Indications and contraindications to vaccinations.</p> <p>2.2. Adverse reactions to vaccination and their prevention.</p> <p>2.3. World Health Organization Expanded Immunization Program.</p> <p>2.4. Legal basis of immunoprophylaxis.</p> <p>2.5. Prospects for the development of immunoprophylaxis of infectious diseases</p>
3	<p><b>Organizational and methodological issues of immunoprophylaxis of infectious diseases</b></p> <p>3.1. General requirements for the organization of vaccinations. Technical regulations on immunoprophylaxis.</p> <p>3.2. National preventive vaccination calendar.</p> <p>3.3. Planning preventive vaccinations.</p> <p>3.4. Requirements for transportation and storage of immunobiological medicinal products.</p> <p>3.5. The concept of adverse reactions to preventive vaccinations: types, detection, registration, investigation</p>
4	<p><b>Infections with predominantly parenteral mechanism of infection</b></p> <p>4.1. HIV - infection and acquired immunodeficiency syndrome: characteristics of the pathogen; the mechanism for the development of the epidemic process; manifestations of the epidemic process; prevention.</p> <p>4.2. Viral hepatitis B, D, C and others: characteristics of pathogens; the mechanism for the development of the epidemic process; manifestations of the epidemic process; prevention; determining the boundary and time of existence of the focus; drawing up a plan of sanitary and anti-epidemic measures</p>
5	<p><b>Healthcare-associated infections</b></p> <p>5.1. Definition of the concept of "infections associated with the provision of medical care," epidemiological characteristics of pathogens, features of hospital strains.</p> <p>5.2. The mechanism for the development of the epidemic process of infections associated with the provision of medical care, manifestations of the epidemic process, risk factors.</p> <p>5.3. Epidemiological surveillance and infection control of healthcare-associated infections.</p> <p>5.4. fundamentals of prevention, sanitary and anti-epidemic measures</p>
6	<p><b>Clinical epidemiology</b></p> <p>6.1. Clinical epidemiology: definition of the concept; clinical epidemiology in medical practice, in scientific research, in the educational process. clinical epidemiology and evidence-based medicine; morbidity; study of incidence rate; frequency indicators and their comparison; the concept of causality in epidemiology (single and multiple causes, establishment of causes); risk groups; risk factors; disease outcomes; confounders.</p> <p>6.2. Epidemiological research methods: randomized controlled trials, cohort studies, case-control studies, cross-sectional studies</p>