

Name of university, Name of faculty: Trnava University
Faculty of Health Care and Social Work

INFORMATION SHEET OF THE SUBJECT

Code: VZB20		Name: Microbiology I.	
Cover: Department of Public Health			
Type of educational activity: Seminar, Practise		Number of credits: 3	Recommended semester: WT
Scope of educational activity (in hours):			Study grade: Bachelor
Weekly: 1/1			
For term of study: ZS 23,23			
Method of educational activity:			
Recommended semester	Study programme		
2.year WT	Public Health (D1-VZ-22) Public Health (D1-VZ-22-K)		
Underlie subjects:			
Conditions for passing the course:			
Method of evaluation: Completion by taking an examination			
Continuous evaluation: none			
Final evaluation: At least 95% must be obtained for grade A, at least 89% for grade B, at least 83% for grade C, at least 77% for grade D and at least 71% for grade E.			
Finished: exam			
Learning outcomes:			
Understand the importance of microorganisms for public health			
Learn the basic principles and conditions for the development of infectious diseases			
Understand how the pathogenic potential of microorganisms can be influenced			
Be able to navigate the most commonly used laboratory methods and their differences			
Ability to identify epidemiologically significant microorganisms			
Ability to correctly collect samples and indicate diagnostic tests			
Ability to correctly choose preventive procedures to prevent the spread of microorganisms			
Schedule of subject:			
1. History of microbiology, introduction to the study of microbiology			
2. Physiological flora and the microbiome			
3. Prerequisites for the development of an infectious disease			
4. Classification and taxonomy of microorganisms – overview of the most epidemiologically significant ones			
5. Prions, virology, bacteriology, mycology, parasitology			
6. Laboratory diagnostics in microbiology – demonstration of methods in the laboratory and laboratory findings, visit to a clinical microbiology department			
7. Basics of antimicrobial therapy, decontamination, immunization			
8. Antibiotic resistance and its impact on public health			
9. Prevention of the spread of microorganisms – community vs. hospital			
Recommended reading:			
1. Kompaniková Jana, Elena Nováková, Martina Neuschlová: Mikrobiológia nielen pre medikov - 2. upravené a doplnené vydanie. Multimediálna podpora výučby klinických a zdravotníckych disciplín: Portál Jesseniovej lekárskej fakulty Univerzity Komenského, 2014. Available online: https://portal.jfmed.uniba.sk/clanky.php?aid=248			
2. Kompaniková Jana, Neuschlová Martina, Elena Nováková, Vladimíra Sadloňová: Odber biologického materiálu na mikrobiologické vyšetrenie. Multimediálna podpora výučby klinických a zdravotníckych disciplín: Portál Jesseniovej lekárskej fakulty Univerzity Komenského, 2020. Available online: https://portal.jfmed.uniba.sk/clanky.php?aid=398 .			
3. Adriána Liptáková a kol. Lekárska mikrobiológia. Herba, 2019, ISBN 9788089631919			
Language requirements: Slovak			
Notes:			
Daily form, attendance method of education			
Daily form, combined method of education: through assignments in Moodle/online, distance learning, self-study, exercises /in-person/			
Self-study is supported by e-learning online, e.g. test or oral exam via MOODLE			
100% attendance is required.			

Course evaluation: Assessed students in total: 318					
A	B	C	D	E	FX
18%	31%	19%	15%	14%	4%
Lecturers: RNDr. Mgr. Jaroslava Sokolová, PhD., MPH, univ.doc., lecturer, examiner, instructor RNDr. Lucia Jakubcová, PhD., lecturer, examiner, instructor					
Date of last change: 01.09.2026					
Approved by: doc. PhDr. Róbert Ochaba, PhD., MPH, univ.prof.					