



JOHN WESLEY THEOLOGICAL COLLEGE

COURSE TEMATICS

Course: Environmental Microbiology	Course type: Lectures & seminar	Credits: 2	Course ID: KTAK117/2
Course responsible: Dr.Török Liliana Paraschiva	Programme type: theoretical	Hours/Semester 30	Assessment: exam
Course objectives: The objective of the course is to provide an understanding of microorganisms, highlighting their structure, diversity, adaptation to different types of environments. With the aim of gaining knowledge about the role and importance of microbes in the natural and artificial (man-made) environment.			
Competencies to be improved: Knowledge: T1, T2, T3, T6, T7 Ability: K4, K5 Attitude: A3, A4, A6 Autonomy and responsibility: F2			
Compulsory literature: Downloadable course materials provided by the lecturer in the time of the classes indicated in the timetable.			
Recommended literature: Pepper I.L., Gerba C.P., Gentry T.J., (eds.), 2015, Environmental Microbiology, Third edition. DOI: https://doi.org/10.1016/C2011-0-05029-9 , Elsevier Inc. All			
Course content: I. Environmental Microbiology – Historical background II. Types of microorganisms and microbial intereactions III. Aero-microbiology IV. Microbiology of aquatic environments: Wastewater microbiology; Water and aquatic animals microbiota Disturbance in aquatic environment: Eutrophication; Aquatic microorganism under the climate change stress V. Soil microbiology			
Course requirements: The requirements for students' acceptance to the exam are explained by the instructor to the students in the first lecture. The mandatory condition is to carry out a semester project and to make 2 presentations in plenary. Submission of tasks for the individual activity according to the schedule received at the beginning of the semester. Exam grade can be offered based on the average grade of submitted course assignments. Final exam is a cumulative test.			
Grading scale: Control test grades/Exam grades: >90 points = Excellent, 80-89.9 points = Good, 65-79.9 points = Satisfactory, 50-64.9 points = Pass			
Course Programme: WJLF ENVIRONMENTAL SCIENCE	Semester: 2024_2025_3	Lecturer: Dr. TÖRÖK Liliana Paraschiva	