Biomatics and Applied Artificial Intelligence Institute			Semester 1. of the curriculum 2023-24-1			
Name of the subject:	Code of the subject:	Credits:	Weekly hours:			
			full-time	lec	sem	lab
Learning Methodology	NBXTM1EBNF	6	full-time	2	1	0
Responsible person for the subject: Dr. Valéria PÓSER			Classification: associate professor			
Subject lecturer(s): Dr. Valéria PÓSER, Szandra Anna LACZI, Patrik László SZABÓ						
Prerequisites:						
Way of the assessment:	mid-term grade					

Course description
Goal:	The aim of the subject is twofold. On the one hand, students will learn about the latest learning methodologies, how to acquire and synthesise higher education knowledge, logical skills and time management skills. In addition, they will learn about the institution and the faculty and the opportunities it offers them, and gain an institutional perspective. They will learn about the University, its faculties and other departments, the university innovation ecosystem and its elements (incubation, services), types of scholarships, specialisations, specialised organisations (IEEE, NJSZT), the system of professional colleges and talent management.
Course description:	Themes: Knowledge about the University, university life, behaviour norms, administration, training; Learning methods, strategies, techniques in higher education, engineering, IT, information society. Group work / individual learning. Talent management (tandem courses, mentoring, professional circles (Neumann College), competitions, TDK). Research opportunities at the University. Student projects. Curriculum planning. Preparation for lectures, exercises, consultations. Study techniques for effective and efficient preparation for exams. Learning time management.

Lecture schedule	
Education week	Topic
1.	Lecture: aim, structure and requirements of the subject. What is the University? National Higher Education Act (NHE Act) requirements. Bologna education system, credit system. The structure and basic concepts of the course: curricular network, subjects (compulsory, optional, optional, criterion subjects), interrelation of subjects; relationship with the Master's (MSc). Practice: general information on the subject, assessment of learning strategies, preparation for group work I.
2.	Lecture: learning habits of generations. Generational differences, IT skills, Generation Z and Alpha, teaching methods, collaborative learning, technology tools and platforms, digital literacy, gamification Practice: assessment of learning strategies, preparation for group work II.
3.	Lecture: the structure (organogram), management and documents of the University. Management of student affairs (Neptun, administrators, applications, appeals (Faculty Board of Studies - KTB, University Appeals Board - EJB)). Exercise: innovative learning techniques, the importance of group work in the IT sector I.
4.	Lecture: learning methods in higher education, developing self-regulated learning. Assessing our learning style. Learning methods in the information society. Group work/individual learning. Practice: innovative learning techniques, the importance of group work in the IT sector II.

5.	Lecture: learning strategies (increasing learning efficiency, learning about specific learning methods, methods to learn while learning - to relax). Practice: Critical reading and scientific text processing I.
6.	Lecture: critical reading. Processing scientific texts, reading with understanding, developing critical thinking Practice: Critical reading and scientific text processing II.
7.	Lecture: curriculum design. Preparation for lectures, exercises, consultations. Study techniques for effective and efficient exam preparation. Learning time management. Practice: Developing working memory I.
8.	Lecture: simple learning techniques for all. Note-taking techniques. Practice: developing working memory II.
9.	Lecture: using large language models and ChatGPT. Practice: prompting and ChatGPT in practice I.
10.	Lecture: notes, textbooks; use of electronic materials; Quality assurance of teaching (student feedback, Student Evaluation of Teaching Work (OMHV). Practice: Prompting and ChatGPT in practice II.
11.	Lecture:Managing absences - cross semesters, conditions and possibilities for graduating (rules, regulations, diploma, final examination process; language requirements). Practice: thesis/dissertation process I.
12.	Lecture: Methodology for scientific publications. Practice: Thesis/dissertation writing process II.
13.	Lecture: Talent management, presentation of research groups (telematic courses, mentoring system, professional circles, colleges, competitions, Scientific Student Conference (TDK)). Professional organisations (IEEE, NJSZT), colleges and talent management system. Practice: overcoming learning difficulties I.
14.	Lecture: Innovation and patent rights Practice: overcoming learning difficulties II.

Mid-term requirements

Conditions for obtaining a mid-term grade/signature	Each lecture is followed by a self-assessment test, a score of at least 60% is required for each test in order to complete the final exam after the lecture series. The midtermgrade is made up of the final exam plus three individual assignments.

Assessment schedule

Education week	Topic

Method used to calculate the *mid-term grade* (to be filled out only for subjects with mid-term grades)

The average of the results of the 3 exercises will be 50% of the final grade, the other 50% will be determined by the result of the Moodle test ZH at the end of the lecture series. Each lecture is followed by 1-1 self-test, each of which requires a pass rate of 60% to complete the ZH test following the lecture series.

Type of the replacement

Type of the replacement of written test/mid-term grade/signature	The self-tests following the lectures can be repeated three times during the semester, the ZH test following the lecture series can be made up or corrected 1 time in the last week. Students who have not obtained at least a satisfactory

	mark during the semester may apply for a mid-term oral examination in the form of a signature replacement on one of the first 10 working days of the examination period.
Type of the exam (to be filled out only for subjects with exams)	
Calculation of the exam mark (to be filled only for subjects with exams)	

Test scores are calculated on the following scale:

0% - 49%: fail (1)

50% - 61%: pass (2)

62% - 73%: satisfactory (3)

74% - 85%: good (4)

86% - 100%: excellent (5)

Final grade calculation methods:

References	
Obligatory:	Óbuda University - Organisational and Operational Rules, 2022.
Recommended:	Wright, Jean. Learning to learn in higher education. Vol. Routledge, 2018.
Other references:	Class materials hosted in Moodle.