Module designation	**Cognitive Science** **Course code:** 8420202004
Semester(s) in which the module is taught	Semester 8 (Fourth year)
Person responsible for the module	**Coordinator:** Dr. Elly Matul Imah, M.Kom **Teaching staff:** Dr. Elly Matul Imah, M.Kom
Language	Indonesian
Relation to curriculum	Elective
Teaching methods	Lectures, tutorial assignments, and individual study **Media and tools:** Slides and LCD projectors, whiteboard
Workload (incl. contact hours, self-study hours)	**(Estimated) total workload:** 2 CU × 170 minutes × 16 weeks = 5,440 minutes = 90.67 hours (≈ 3.18 ECTS) **Contact hours:** lectures, 2 × 50 minutes per week × 16 weeks = 26.67 hours (class hours per week: 340 minutes = 5.67 hours, including structured activities) **Private study including examination preparation:** structured assignments, 2 × 60 minutes per week × 16 weeks = 32.00 hours; independent study, 2 × 60 minutes per week × 16 weeks = 32.00 hours (total 64.00 hours)
Credit points	2 CU (3.18 ECTS) *1 CU = 170 minutes per week × 16 weeks = 45.3 hours; 1 ECTS = 28.48 hours (144 CU = 229 ECTS), so 1 CU = 1.59 ECTS (UNESA Rector's Decree No. 736/HK/KM/2023).*
Required and recommended prerequisites for joining the module	None
Module objectives/intended learning outcomes	**Programme learning outcomes (PLO) addressed:** • PLO-5: Apply the basic principles of mathematics to solve simple mathematical problems. • PLO-6: Demonstrate mathematical knowledge and insight. • PLO-10: Make decisions based on data/information in completing tasks that are the student's responsibility and evaluating the work that has been done.
Content	This course explores the mind through the lenses of psychology, neuroscience, computer science, linguistics, anthropology, and philosophy. In short, it examines how we think. We will learn about the brain, artificial intelligence (robots), and how we produce and understand language. We will explore many topics, such as how we learn and understand the world around us, experimental techniques such as fMRI and EEG, and skills such as statistics and computers programs. This course will also highlight the importance of cognitive science and the many ways it is present around us. Our exploration of cognitive science will take many forms, such as reading and writing, discussing and listening, and experimenting and observing.
Examination forms	Final score is calculated from the weekly assessment scheme below (CLO/PLO addressed and weight of each assessment):

Week	CLO	PLO	Weight (%)
1	CLO-1	PLO-6	5

	2	CLO-1	PLO-6	5
	3	CLO-1	PLO-6	5
	4	CLO-2	PLO-5	5
	5	CLO-2	PLO-5	5
	6	CLO-2	PLO-5	5
	7	CLO-3	PLO-10	5
	8	CLO-3	PLO-10	15
	9	CLO-3	PLO-10	5
	10	CLO-4	PLO-6	5
	11	CLO-4	PLO-6	5
	12	CLO-5	PLO-10	5
	13	CLO-5	PLO-10	5
	14	CLO-5	PLO-10	5
	15	CLO-5	PLO-10	5
	16	CLO-5	PLO-10	15

Study and examination requirements

Students are considered competent and pass if the final score is at least 55 or C.

Final index (grade conversion):

Index	Converted score	Score range (A = final score)
A	4.00	85 ≤ A ≤ 100
A-	3.75	80 ≤ A < 85
B+	3.50	75 ≤ A < 80
B	3.00	70 ≤ A < 75
B-	2.75	65 ≤ A < 70
C+	2.50	60 ≤ A < 65
C	2.00	55 ≤ A < 60
D	1.00	40 ≤ A < 55
E	0.00	0 ≤ A < 40

Reading list

1. Vladimír Kvasnička, et al, Artificial Intelligence and Cognitive Science, 2014, Faculty of Informatics and Information Technologies SUT in Bratislava.
2. Jamie Ward, The Students Guide to Cognitive Neuroscience, 4th edition, Routledge, 2020.
3. Dale Purves, Roberto Cabeza, Scott A. Huettel, Kevin S. LaBar, Michael L. Platt and Marty G.