Module name	**Introduction to Cognitive Science**
Erasmus code	
ISCED code	
Language of instruction	English
Website	http://konderak.eu/ics16.html
Prerequisites	
ECTS points hour equivalents	Contact hours (work with an academic teacher): 30 Total number of hours with an academic teacher: 45 Number of ECTS points with an academic teacher: 1,5 Non-contact hours (students' own work): 30
Educational outcomes verification methods	written exam, evaluation during the lecture
Description	Cognitive Science could be described shortly as interdisciplinary research on mind and cognition. Cognition involves such mental states and processes as: thinking, reasoning, memory, learning, perception, consciousness, emotions etc. The aim of the course is to present the problems that pervade cognitive science, its history (very shortly), current research and its perspectives. The history of cognitive science will be presented as the development of the idea of "mind as machine" within the computational (symbolic as well as connectionist) and cybernetic approaches.
Reading list	Boden M.,Mind as Machine. A History of Cognitive Science, T.I-II, Oxford U.P., 2006. Encyclopedia of Artificial Intelligence, S. Shapiro (ed.), vol I-II, Wiley, 1992. Gazzaniga M.S., Ivry R.B., Mangun G.R.,Cognitive Neuroscience: The Biology of the Mind, W.W. Norton, 2002. The MIT Encyclopedia of the Cognitive Sciences, Wilson R., Keil F. (eds), MIT Press, 1999.
Educational outcomes	**KNOWLEDGE** a student defines subject-matter of cognitive science, namely natural and artificial cognitive systems as well as cognitive processes a student characterizes cognitive systems in terms of cognitive psychology, cognitive neuroscience and computer science a student is familiar with and uses terminology of cognitive psychology, cognitive neuroscience and computer science a student describes basic approaches in contemporary cognitive science, controversial issues and significant achievements **SKILLS** **a student...** ... is able to identify connections between descriptions of the same cognitive phenomenon described within different cognitive disciplines ... is able to evaluate (to a degree) selected approaches within cognitive science - taking into account empirical evidence ... is able to use English (in particular terminology) discussing problems of cognitive science **ATTITUDES**

	a student... develops her or his knowledge on selected aspect (psychological, neuroscientific, computational) of cognitive science
Practice	

Information about **lecture** in the cycle

Website	as above
Educational outcomes verification methods	as above
Comments	
Reading list	as above
Educational outcomes	**KNOWLEDGE** as above **SKILLS** as above **ATTITUDES** as above
A list of topics	1 Cognitive Science: frequently asked questions (FAQ) 2 A logical neuron 3 Cybernetics and cognitive science; brain models 4 Aspects of cognitive psychology: Cognition and representations General cognitive architectures Concepts as a form of representing 5 Cognitive neuroscience History of research on brain (and central nervous system) selected cognitive functions of CNS Selected dysfunctions of CNS 6 Artificial Intelligence computational approach and digital computers connectionist approach and artificial neural networks
Teaching methods	lecture, discussion during the lecture,
Assessment methods	written exam