

DOCTORAL STUDIES COURSE UNIT DESCRIPTION

Name of subject	Field of science, code	Faculty / Center	Institute / Department
Development and Fundamental Problems of Cognitive Sciences	H 001	Faculty of Philosophy	Institute of Philosophy

Student's workload	Credits	Student's workload	Credits
Lectures		Consultations	1
Independent study	4	Seminars	

<p>Course annotation</p> <p>Development of cognitive sciences. Prehistory of cognitive sciences. Critique of behaviourism in psychology: learning without encouragement, cognitive maps, plans and complex behaviours, first models of information processing. Early research on artificial intelligence: algorithm, computation, Turing machines. Critique of behaviourism in linguistics: a formal analysis of language. The emergence of cognitive sciences. The first models of natural language processing, imagery debate, computational, algorithmic, and implementation levels of analyses. Mental representations. Turning towards neurology: neural network models, PET, fMRI technologies. New challenges: the problem of consciousness, dynamic systems, experimental philosophy.</p> <p>Basic problems of cognitive sciences. The problem of integration: local and global integration, inter-theoretical reduction, levels of interpretation, mental architecture. Controversy over common information processing models: symbolic, connectionist, and dynamic information processing models. The problem of mental architecture: the hypothesis of mass modularity. The evolution of cognition. Frame problem, embodied and contextual cognition. Culture and cognition. The problem of consciousness: reductive and anti-reductive arguments. Predictive coding in perception and cognition. Assessment requirements are related to the topic of the dissertation and are determined individually.</p>
<p>Reading list</p> <p>Basic literature</p> <ol style="list-style-type: none"> 1. Chalmers, D. J. 1996. <i>The Conscious Mind</i>. Oxford: Oxford University Press. 2. Chomsky, N. 1957. <i>Syntactic Structures</i>. The Hague: Mouton. 3. Churchland, P. S. 1986. <i>Neurophilosophy</i>. Cambridge, MA: MIT Press. 4. Clark, A. 1997. <i>Being There</i>. Cambridge, MA: MIT Press. 5. Dreyfus, H. L. 1972. <i>What Computers Can't Do</i>. New York: MIT Press. 6. Fodor, J. 1983. <i>The Modularity of Mind</i>. Cambridge, MA: MIT Press. 7. Fodor, J. 1975. <i>Language of Thought</i>. Cambridge, MA: Harvard University Press. 8. Marr, D. 1982. <i>Vision</i>. San Francisco: W. H. Freeman. 9. Port, R. F.; Van Gelder, T., eds. 1995. <i>Mind as Motion</i>. Cambridge, MA: MIT Press. 10. Rumelhart, D. E.; McClelland, J. L. and the PDP Research Group. 1986. <i>Parallel Distributed Processing</i>. Cambridge, MA: MIT Press. <p>Additional literature</p> <ol style="list-style-type: none"> 1. Bermúdez, J. L. 2014. <i>Cognitive Science</i>. Cambridge: Cambridge University Press. 2. Carruthers, P. 2011. <i>The Opacity of the Mind</i>. Oxford: Oxford University Press. 3. Carruthers, P.; Laurence, S.; Stich, S., eds. 2005-7. <i>The Innate Mind</i>, Vol. 1-3. Oxford: Oxford University Press. 4. Churchland, P. M. 2007. <i>Neurophilosophy at Work</i>. Cambridge: Cambridge University Press. 5. Damasio, A. 2010. <i>Self Comes to Mind</i>. New York: Pantheon Books.

6. Gallagher, S.; Schmicking, D., eds. 2010. Handbook of Phenomenology and Cognitive Science. Dordrecht: Springer.
7. Kahneman, D. 2011. Thinking, Fast and Slow. New York: Farrar, Straus, and Giroux.
8. Knobe, J.; Nichols, S., eds. 2008. Experimental Philosophy. Oxford: Oxford University Press.
9. Margolis, M.; Samuels, R.; Stich, S., eds. 2012. The Oxford Handbook of Philosophy of Cognitive Science. Oxford: Oxford University Press.
10. Stainton, J., ed. 2006. Contemporary Debates in Cognitive Science. Oxford: Blackwell.

The names of consulting teachers	Science degree	Main scientific works published in a scientific field in last 5 year period
Renatas Berniūnas	Dr.	<p>Berniūnas, R., Silius, V. Dranseika, V. (2021). Moralization East and West: Moralizing different transgressions among Chinese, Americans and Lithuanians. <i>Asian Journal of Social Psychology</i>. DOI: 10.1111/ajsp.12479</p> <p>Berniūnas, R., Beinorius, A., Dranseika, V., Silius, V., Rimkevičius, P. (2021). The weirdness of belief in free will. <i>Consciousness and Cognition</i>, 87, https://doi.org/10.1016/j.concog.2020.103054</p> <p>Berniūnas, R., Dranseika, V., Delgermend, T. (2020). Between Karma and Buddha: prosocial behavior among Mongolians in an anonymous economic game. <i>The International Journal For The Psychology Of Religion</i>, 30 (2), pp. 142–160. DOI: 10.1080/10508619.2019.1696497</p> <p>Berniūnas, R. (2020). Mongolian “Yos surtakhuun” and WEIRD “Morality. <i>Journal of Cultural Cognitive Science</i>, 4, 59–71 https://doi.org/10.1007/s41809-019-00045-1</p> <p>Berniūnas, R., Silius, V. Dranseika, V. (2019). Beyond the moral domain: the normative sense among the Chinese. <i>Psichologija</i>, 60, pp. 86-105. doi: 10.15388/Psichol.2019.11.</p>
Jonas Dagys	Dr.	<p>Berniūnas, R., Dagys, J., Dranseika, V., (2017). „Proper names, rigid designation, and empirical studies on personal identity“ // <i>Topoi. An International Review of Philosophy</i>. ISSN: 0167-7411.</p> <p>Dagys, J., (2014). „Pastabos apie neverbalinio kontinuumo idėją“ // <i>Problemos 2014 Priedas</i>, p. 18-28. (Thomson Reuters Web of Science Arts & Humanities Citation Index)</p> <p>Dagys, J., Dranseika, V., Grenda, V., Vasilionytė, I., „Reduktyvizmo raiška šiuolaikinėje analitinėje filosofijoje“. - <i>Problemos</i>, Nr. 85, Vilnius, 2014, p. 141-152.</p> <p>Dagys, J., „Šiuolaikinė psichofizinio reduktyvizmo ir antireduktyvizmo polemika ir jos metodologinės išdavos“. - <i>Problemos, priedas</i>, Vilnius, 2012, p. 22-36.</p> <p>Dagys, J., "Putnamian anti-envattor ver. 3.00: new features - same results". - <i>Problemos</i>, Nr. 77, Vilnius, 2010, p. 39-48.</p>
Marius Povilas Šaulauskas	Prof.	„Revizionistinis konstruktyviojo empirizmo

	<p>normatyvumas“ (kartu su J. Bujoku). - Problemos, Nr. 83, Vilnius, 2014, p. 48-61;</p> <p>„Heideggerio bylos“ byla: filosofijos silpnatvė ir stiprybė“ (kartu su L. Adomaičiu). - Sociologija. Mintis ir veiksmai, nr. 1 (34). Vilnius: VU ir KU, 2015, p. 5-15;</p> <p>„Frege's Bedeutung kaip reikšmė ir kaip nurodymas“ (kartu su A. Plėšniu). - Problemos, Nr. 91, Vilnius, 2017, p. 29-43;</p> <p>„Ecological citizenship: habitus of care in the public sphere“ (kartu su A. Bartkiene, R. Bikauskaite). - Problemos. Vilniaus universiteto leidykla, 2018, t. 93, p. 129-141;</p> <p>„Rethinking Ecological Citizenship“ (kartu su A. Bartkiene, R. Bikauskaite, D. Mincyte). - Vilnius, Lithuania: Vilnius University Press, 2019.</p>
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Certified during Doctoral Committee session on 2019-10-22. Protocol No. 250000-KI-41
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Committee Chairman prof. Marius Povilas Šaulauskas
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