5FI425 TEORIE SPONTÁNNÍHO ŘÁDU A SAMOORGANIZACE

Course code	5FI425
Course title in language of instruction	Teorie spontánního řádu a samoorganizace
Course title in Czech	Teorie spontánního řádu a samoorganizace
Course title in English	Theory of Spontaneous Order and Self-Organization
Mode of completion and number of credits	Exam ECTS (3 credits), Exam (2 credits) One ECTS credit corresponds to 26 hours of workload for an average student.
Type of course	Daily attendance: 2/0 (hours of lectures per week / hours of seminars per week)
Language of instruction	Czech
Level of course and year of study	bachelor: 3; master: 1; master continuing: 1
Semester	Sklad NF – NF
Name of lecturer	doc. PhDr. Ján Pavlík (examiner, lecturer, supervisor)
Prerequisities	none

Aims of the course

The subject includes a trans-disciplinary explication of the fundamental principles ond basic conditions for the evolution and self-organization of nature and societally-historical reality; the focus is on the specific character of cultural evolution which constitutes such varieties of spontaneos order as language, morality, law and market economy.

Learning outcomes and competences

Upon successful completion of this course, students will be able to to understand interrelations among various types of spontaneous order; they will arrive at a general philosophical basis enabling them to integrate and systematize the advancements of various sciences dealing with complexity and to apply adequately universal Darwinism, genetic algorithms and the other advanced approaches of information theory.

Course contents

1) The subject and methods of the theory of spontanous order
2) The physical prerequisites for evolution (entropy in classical, statistical and non-equilibrium thermodynamics; entropy and information in the context with II. Law of thermodynamics, Schrödinger's theory of life, decoherentism)
3) The spontaneous order of organic nature (the onception of organism in German classical philosophy, the autopoiesis, Kauffman's "IV. Law" of thermodynamics, organism as circular/spiral self-relatedness; an ontological interpretation of Darwinism)
4) Life, brain, conciousness, self-reflexion (the qualia, Hayek's Sensory Order, neurophysiological basis for apriorism)
5) The spontaneous order of language (universal grammar, Smith's theory of spontaneous formation of languages, Engliš's conception of the a priori character of the logical order of natural languages)
6) The spontaneous genesis of moral and legal order (Smith's Theory of Moral Sentiments, Hayek's conception of the spontaneous genesis of rules and the critical evaluation thereof)
7) The spontaneous order of market economy (marked order as circular/spiral self-relatedness, Misesian apriorism, classical liberalism as science vs classically liberal ideology)
8) Spontaneous order in politics and history (its features in the functioning of liberal democracy, Fukuyama and the end of history)

Teaching methods and student workload

Type of teaching method	Hours of workload daily attendance
Participation in lectures	26
Preparation of term paper	26
Preparation for final oral exam	26
Total	**78**

Assessment methods

Requirement type	Weight daily attendance
Term paper	55 %
Final oral exam	45 %
Total	**100 %**
Special requirements and details: none	

Recommended reading

Type*	Author	Title	Published in	Publisher	Year	ISBN
R	PAVLÍK, J.	F. A. Hayek a teorie spontánního řádu	Praha	Professional Publishing	2004	80-86419-57-6
R	PAVLÍK, J.	Austrian Economics and the Problems of Apriorism, in: E-LOGOS, ELECTRONIC JOURNAL FOR PHILOSOPHY/2006, http://nb.vse.cz/kfil/elogos/science/pavl106.pdf			2006	
R	HAYEK, F. A. V.	Kontrarevoluce vědy : eseje o zneužívání rozumu	Praha	Liberální institut	1995	80-85787-87-3
A	JEŽEK, T.	Liberální ekonomie : kořeny euroamerické civilizace	Praha	Prostor	1993	80-85190-21-4
A	VON MISES, L.	Lidské jednání : pojednání o ekonomii	Praha	Liberální institut	2006	80-86389-45-6

* R – required reading, A – additional reading