Philosophy of Computer Science

Lecturer: Savostyanov Alexander, Ph.D.

Semester: 1 **Duration**: 18 weeks

Workload (h): 72 **Presence** (h + CH): 32 (4) **Self-Study** (h): 36

Contents:

Background and relations to other courses: nothing

Main topics and learning objectives:

1. Introduction. History of informatics.
2. Domain knowledge of informatics.
3. Hypothesis testing in informatics.
4. Philosophical bases of formal languages.
5. Formal languages and programming languages.
6. Natural Language Processing in computer science.
7. Understanding Terminological System.
8. Structural linguistics, Machine translation and High-level programming language.

Assessment:

Formative: in interaction with lecturer and tutor during learning period. On site, skype, email are preferable.

Summative:

Number and Type; Connection to Course	**Duration**	**Part of final mark in %**
Pass Test	90 min	100%

Learning outcomes:

Academic: The students know principles applied in the conduct of scientific research in the field of computer science.

Prerequisites for Credit Points: The credit points will be granted when the course has been successfully completed, i.e. all parts of the examination are passed.