Itä-Suomen ICT-polku

COURSE DATA

BASIC INFO

Name	Discrete Structures
Code	Savonia: ETX7500 Karelia: LTD7002 UEF: 3621410
Name in Finnish	Diskreetit rakenteet

Credits (ECTS)	5	**Grading**	0 - 5
Teaching period	1S		

Language	Finnish
Type	Savonia: elective course Karelia: electivce course UEF/TKT: mandatory course

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DESCRIPTION

Objectives	After the course, the student knows basics of logical deduction and can use logical deduction tools, such as truth tables and Karnaugh maps. Student knows basics of predicate logic, basic operations of set theory, relation and function, and knows their connections to the propositional logic. Student can use induction proof method, knows basics of combinatorics and graph theory.
Content	Propositional logic, predicate logic, set theory, relations, functions, induction proof, combinatorics, graph theory
Modes of study	Two intermediate exams or final exam, Essay
Study materials	Lecture notes, lecture materials
Teaching methods	Multi-modal teaching
Prerequisites	-
Other issues	Assessment is based on the practical exercises and exam points.