



Itä-Suomen ICT-polku

COURSE DATA

BASIC INFO

Name	Discrete Structures		
Code	Savonia: ETX7500 Karelia: LTD7002 UEF: 3621312		
Name in Finnish	Diskreetit rakenteet		
Credits (ECTS)	5	Grading	0 - 5
Teaching period	1S		
Language	Finnish		
Type	Savonia: elective course Karelia: elective course UEF/TKT: mandatory course		



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COURSE DESCRIPTION

Objectives	<p>After completing the course, students understand tools of propositional - and predicate logic, truth tables, Karnaugh maps, and are able simplify propositions.</p> <p>Students understand set theory, relations, and functions, and understand connections of these topics to propositional logic. Student also have experience about induction proofs, combinatorics, Boolean algebra, and basics of graph theory.</p>
Content	Propositional logic, set-theory, predicate logic, relations and functions, induction proof, combinatorics, graph theory, Boolean algebra, Karnaugh maps.
Modes of study	Lecture and exercise course, exam.
Study materials	Lecture notes.
Teaching methods	Lectures 32 h, exercises 14h, independent work
Prerequisites	-
Other issues	