



## Itä-Suomen ICT-polku

### COURSE DATA

#### BASIC INFO

|                        |  |                |       |
|------------------------|--|----------------|-------|
| <b>Name</b>            | Programming I - Basics of Programming  |                |       |
| <b>Code</b>            | Savonia: ETA7000<br>Karelia: LTD6006<br>UEF: 3621251                                   |                |       |
| <b>Name in Finnish</b> | Ohjelmointi I - Ohjelmoinnin perusteet   |                |       |
| <b>Credits</b>         | 5  | <b>Grading</b> | 0 - 5 |
| <b>Teaching period</b> | 1S   |                |       |
| <b>Language</b>        | Finnish  |                |       |
| <b>Type</b>            | Savonia: compulsory course<br>Karelia: compulsory course<br>UEF/TKT: compulsory course |                |       |



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### COURSE DESCRIPTION

|                         |   |
|-------------------------|---|
| <b>Objectives</b>       | <p>Student is able to code, compile and debug an executable program</p> <p>Student can design simple programs and implement them by using the programming language of the course. The student knows how to use operating system's command line interface to compile and execute these programs.</p> |
| <b>Content</b>          | <p>Input and output</p> <p>Variables</p> <p>Switch statements</p> <p>Random numbers</p> <p>Functions (no recursion)</p> <p>Arrays and matrices</p> <p>File handling</p>   |
| <b>Modes of study</b>   | Pre-recorded theory lectures, demo sessions, exam.  |
| <b>Study materials</b>  | To be announced at the start of the course.   |
| <b>Teaching methods</b> | Lectures 4h, videos 3h, exercises 14h, independent work approx. 100h.   |
| <b>Prerequisites</b>    | No requirements.  |
| <b>Other issues</b>     |   |