RTU Course "Bachelor Thesis"
12306 Department of Applied Computer Science

**General data**

- **Code**: DPI001
- **Course title**: Bachelor Thesis
- **Course status in the programme**: Graduation Test
- **Course level**: Undergraduate Studies
- **Course type**: Academic
- **Responsible instructor**: Oksana Nikiforova
- **Academic staff**: Uldis Sukovskis
- **Volume of the course: parts and credits points**: 1 part, 10.0 Credit Points, 15.0 ECTS credits
- **Language of instruction**: LV, EN

**Annotation**

Bachelor Thesis is an analytical study with elements of scientific research. It has to be performed in the area of applied computer science according to the topic individually assigned to the student. Research result has to be based on the analysis of literature sources.

**Goals and objectives of the course in terms of competences and skills**

The goal of the Bachelor Thesis is to demonstrate student’s abilities to perform independent research. Student has to apply knowledge acquired during his/her studies to perform selection and analysis of theoretical and practical solutions described in scientific literature, to demonstrate comprehension of practical solutions based on results of analysis, to explain and discuss them. Student has to write the thesis according to the requirements for scientific writing and project documentation.

**Recommended literature**


**Learning outcomes and assessment**

<table>
<thead>
<tr>
<th>Learning outcomes</th>
<th>Assessment methods</th>
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</thead>
<tbody>
<tr>
<td>Is able to apply scientific approach to problem solving, to perform system analysis and to assess existing and possible solutions.</td>
<td>Bachelor Thesis includes scientific research component, which has received a positive supervisor’s and reviewer’s assessment.</td>
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<tr>
<td>Is able to design a solution to solve a scientific problem.</td>
<td>Bachelor Thesis includes a solution component which has received a positive supervisor’s and reviewer’s assessment.</td>
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<tr>
<td>Is able to select and analyze theoretical and practical solutions described in scientific and technical literature.</td>
<td>At least five sources of scientific literature are referred to in the Bachelor Thesis.</td>
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<td>Shows understanding about research methods, results and practical solutions, based on the results of analysis. Is able to explain and to discuss his/her work aspects.</td>
<td>Positive evaluation by the appointed examination commission in accordance with the requirements for academic Bachelor degree.</td>
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**Study subject structure**

<table>
<thead>
<tr>
<th>Part</th>
<th>CP</th>
<th>Lectures</th>
<th>Practical</th>
<th>Lab.</th>
<th>Test</th>
<th>Exam</th>
<th>Work</th>
</tr>
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<tbody>
<tr>
<td>1.</td>
<td>10.0</td>
<td>0.0</td>
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