MTAT.03.306
Requirements Engineering

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On successful completion of this course, students will able to

- Explain the concepts, theories, and best practices associated with requirements engineering
- Elicit, negotiate and document software requirements
- Develop major requirements artefacts and use them during the software development projects
- Apply requirements validation techniques
- Manage software requirements, priorities, and trace them
On successful completion of this course, students will be able to:

- Explain the concepts, theories, and best practices associated with requirements engineering
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- Manage software requirements, priorities, and trace them
About the Course

• Course Website
  
  https://courses.cs.ut.ee/2020/RE/

  – Lectures
    • Presented during lectures - uploaded to before the lecture

  – Readings
    • Self-study material
    • Selected books and articles

  – Submit
    • Place where you will be able to upload solutions (in case of the need)

  – Exam
    • This year exam tasks will be uploaded after the exam
## Course outline

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>2</td>
<td>7. September</td>
<td>Introduction, RE framework, Elicitation</td>
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<tr>
<td>3</td>
<td>14. September</td>
<td>Requirements specification and negotiation. NF requirements</td>
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<tr>
<td>4</td>
<td>21. September</td>
<td>Homework 1, Workshop 1</td>
</tr>
<tr>
<td>5</td>
<td>28. September</td>
<td>Requirements prioritisation and traceability</td>
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<tr>
<td>6</td>
<td>5. October</td>
<td>Requirements change control, Requirements validation</td>
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<td>7</td>
<td>12. October</td>
<td>Homework 2, Workshop 2</td>
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<tr>
<td>8</td>
<td>19. October</td>
<td>Goal modelling</td>
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<td>9</td>
<td>26. October</td>
<td>Scenario modelling</td>
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<td>10</td>
<td>2. November</td>
<td>Requirements modelling</td>
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<tr>
<td>11</td>
<td>9. November</td>
<td>Homework 3</td>
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<td>12</td>
<td>16. November</td>
<td>Workshop 3</td>
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<td>13</td>
<td>23. November</td>
<td>Requirements validation – workshop 4</td>
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<td>14</td>
<td>30. November</td>
<td>Requirements prototyping – workshop 5</td>
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<tr>
<td>15</td>
<td>7. December</td>
<td>Presentation of workshop solutions</td>
</tr>
<tr>
<td>16</td>
<td>14. December</td>
<td>Summary of the course</td>
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*Changes are possible!*
Workload

6 ECTS = 156 hours of study
(1 ECTS = 26 hours of study)

• Video lectures: $2 \times 15 = 30$ hours
• Practical sessions: $2 \times 15 = 30$ hours
• Independent work: $156 - 30 - 30 = 96$ hours
  – Self-study
  – Preparation of homework solutions
  – Preparation of workshop solutions
  – Presentation preparation
  – Preparation for exam
Modalities and Assessment

• Homework: 1st - 5 points, 2nd - 5 points, 3rd - 10 points
• Workshops – 10 points each
• Presentation – 10 points

Max for practical assignments **70 points**. These points will be converted to 55 course points. For example:

<table>
<thead>
<tr>
<th>Practical assignment points</th>
<th>Course grade points</th>
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<tbody>
<tr>
<td>70</td>
<td>55</td>
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<tr>
<td>65</td>
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</tbody>
</table>
Modalities and Assessment

• Homework: 1st - 5 points, 2nd - 5 points, 3rd - 10 points
• Workshops – 10 points each
• Practical assignments - max 55 course points
• Presentation – 10 points
• Examination – 50 points

Exam times:
(1) 04. January, 2021, 14:00-18:00, room 1019
(2) 11. January, 2021, 14:00-18:00, room 1019
Resit – 18. January, 2021, 14:00-18:00

To be admitted to the exam, at least 35 points of the course grade from the practical assignments need to be collected during the semester
Modalities and Assessment

- **Homework:** 1\(^{st}\) - 5 points, 2\(^{nd}\) - 5 points, 3\(^{rd}\) - 10 points
- **Workshops:** 10 points each
- **Presentation:** 10 points
- **Examination:** 50 points

**Practical assignments - max 55 course points**

- **Examination – 50 points**

**Grading Scale**

- 91 and more points – **A**
- 81-90 points – **B**
- 71-80 points – **C**
- 61-70 points – **D**
- 51-60 points – **E**
- 6-50 points – **F**
- 0-5 points – Not attended

**If you passed the course:**
- There will be no extra assignments
- You will not be allowed to retake the exam
Any questions