Practical Training Information Seminar

Practical Training in Informatics (MTAT.03.237, 6 ECTS)
Practical Training in Information Technology (MTAT.03.206, 12 ECTS)

Pelle Jakovits
Practical training coordinator

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What is practical training

Student’s temporary work that takes place within the framework of learning and assessment!

Main question of the practice should be: „What did I learn during the practice?“

Students take individual responsibility to learn!

Should not affect the quality of studies in other courses!
Practical Training goals

• Apply acquired theoretical knowledge and practical skills in companies related to information technology, software engineering or business analytics

• Provide students with individual or teamwork experience necessary for entering labor market

• Improve professional skills and knowledge through job-based learning
Examples of professional skills to improve

• **Key skills**
  – Entrepreneurship, leadership, critical thinking, time estimation skills

• **Personal skills**
  – Time planning, taking responsibility, **courage to ask questions**

• **Communication skills**
  – Professional, diplomatic and clear self-expression skills

• **Technological skills**
  – Specific IT skills
  – Mapping your specialty skills, weaknesses and developmental potential

• **Course related skills**
  – Understand how to apply theoretical skills in real life scenarios
  – Ability to assess the quality of knowledge acquired from courses

• **Career management skills**
  – Creating contacts, suitability of your profession, investigating career opportunities
Organization of Practical training

- All year around: **Sept - Jan, Feb - May, June - August**
- Duration: 156, 312 or 468 working hours based on curriculum

- Practical Training in Information Technology (MTAT.03.206)
  - 312 working hours for 12 ECTS

- Practical Training in Informatics (MTAT.03.237)
  - 156 working hours for 6 ECTS

- It is possible to pass both courses at the same time with a single internship
Description of the courses

1. Choose the training base and applying for training

2. Submit training Plan
   – Deadline: 22. March 2019 (spring training)
   – Deadline: 7. June 2019 (summer training)

3. Complete training

4. Submit written Report
   – Deadline: 5 working days before defense.

5. Defend the practical training
   – Defense dates:
     • Mai
     • June
     • August
Passing the course

Start of the semester

1. Enrol to the course
   - Student

2. Attend introductory seminar
   - Student, Practice coordinator

3. Find practical training base
   - Student

4. Create practical training plan
   - Student
   - Company representative, Company supervisor

5. Submit practical training plan
   - Student

6. Practical training plan evaluation
   - Practice coordinator

7. Complete practical training
   - Student

8. Write practical training report
   - Student
   - Company supervisor

9. Practical training defense
   - Student, Company supervisor, Practice coordinator

10. Evaluation
    - Practice coordinator

Course completed successfully
Practical training plan

• Describe learning objectives and where, how and under who’s supervision they are achieved
  – General description of position, study objectives and schedule of tasks.

• The practice plan must be prepared together with the practice base supervisor and confirmed by the practice coordinator

• Will be signed by student, representative and the supervisor of the practice base and presented to the practice coordinator

NB! Strongly suggest sending initial practical training plan for review before starting the signing procedures
Practical Training report

• Description of the Practical Training base
• Description of the Practical Training
  – General description, schedule and learning objectives
• Analysis of the practical training
  – Main results/outcomes
  – Evaluation of training
    • assessment of the training environment, complexity of tasks, organization and supervision
  – Self analysis
    • learning outcomes, what understand better now, which tasks succeeded well, what could have done better, etc.
Evaluation by the supervisor

• Signed assessments about the completion of the practice from the supervisor
  – Fulfillment of assigned tasks
  – Preparedness (skills & qualifications)
  – Suitability of personal qualities
  – How well the work was managed
  – Development of the trainee during training
  – Summary of evaluation
  – Estimation of practical training volume in hours

• Can be submitted as a separate document, which is digitally or physically signed.
Practical Training defense

• Practical Training report is defended in the form of an academic debate
• Dates for defenses shall be published on the course website
• The main stages of the defense procedure are the following:
  – Defense presentation by the student (9 minutes)
  – Questions & discussion
  – Assessment from the company representative
Finding practical training bases

1. Institute of Computer Science Practical Training Database [Practical Training Database]
2. University of Tartu Student Newsletter
3. Institute of Computer Science Career Day (In February)
4. [Work in Estonia](#) job and internship portal
5. List of Active [Practical Training bases](#)
6. Internship requests can be forwarded to the [member companies](#) of Estonian [Association of Information Technology and Telecommunications](#)
   - Additional information on the course website, contact Pelle Jakovits
Summer internship

• Summer is the best time for practical training
• Many Estonian companies offer special summer internship programs
• Application deadlines are usually in winter/spring

• Examples:
  – Swedbank - Business Intelligence practice (Deadline: Start of March)
  – Helmes BootCamp (Middle of March)
  – Playtech – Summer internship (Middle of March)
  – CGI Summer internship (Start of April)
Practical training outside Estonia

• It is also possible to complete traineeship outside Estonia.
• You will find the University of Tartu regulations at http://www.ut.ee/en/current-students/traineeship-abroad
  – Erasmus+ programm, AIESEC Estonia.
• In case of Erasmus+, you will receive your internship credit points through the Recognition of Prior Learning (RPL) process instead.
• After training has been completed, you have to submit your Erasmus+ documents, report and RPL application.
Practical training through RPL

• RPL - Recognition of prior learning
• One full-time year of previous IT work experience ~ 6 ECTS

Practical training
  – Must be completed before enrolling
  – Work tasks must match the learning outcomes of the practical training and your chosen curriculum

• Should not be the first option!
  – The goal of Practical training is to apply knowledge and skills acquired in your studies in a real environment

• Will be evaluated in case-by-case basis by practical training coordination and the Program Manager of your curriculum
Working in Estonia as a foreign student

• International students (EU and non-EU) do not need an additional working permit to work while studying full time

• **Study in Estonia** guide for working students
  – [http://www.studyinestonia.ee/working](http://www.studyinestonia.ee/working)

• **Work in Estonia** guide for working as a student
Conclusions

• In case of further questions:
  – Pelle Jakovits
  – Tel: +372 737 6422
  – Email: jakovits@ut.ee
  – Ülikooli 17 – 324

• Course materials are located at: https://courses.cs.ut.ee/2019/praktika/spring/
Practical training topics: Computer Science Master
Software Engineering Master

Software Development

[Bar chart showing the comparison between 2017 and 2018 for Software Development and Software Testing]
Computer Science Bachelors

- Software development (2017: 8, 2018: 18)
- Software Testing (2017: 2, 2018: 3)
- Technical support (2017: 3, 2018: 2)
- Data Analytics (2017: 1, 2018: 1)
- IT System analysis (2017: 1, 2018: 1)
Institute practical training database

<table>
<thead>
<tr>
<th>Praktikapakkumised (sisestamine)</th>
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<tbody>
<tr>
<td><strong>Ettevõte</strong></td>
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<td><strong>Appmediation OU</strong></td>
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<td><strong>Microsoft</strong></td>
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Practical training offers over time

Number of internship offers in the institute database

- **2014**: Summer - 4, Autumn - 4, Spring - 1
- **2015**: Summer - 0, Autumn - 4, Spring - 1
- **2016**: Summer - 24, Autumn - 8, Spring - 7
- **2017**: Summer - 18, Autumn - 8, Spring - 7
- **2018**: Summer - 25, Autumn - 10, Spring - 10

Legend:
- Blue: Period Autumn
- Orange: Spring
- Gray: Summer
Practical training positions over time

Number of internship positions in the institute database

- 2014
- 2015
- 2016
- 2017
- 2018

- Period Autumn
- Spring
- Summer
Internship period

2017
2018

spring
fall
summer