

UNIVERSITY OF TARTU

Applied Measurement Science Excellence in Analytical Chemistry

AMS
EACH

UPPSALA
UNIVERSITET

www.ut.ee/ams
www.analyticalchemistry.eu

UNIVERSITY OF TARTU

Applied Measurement Science

- **Interdisciplinary 3+2 master's degree programme**
- Tuned to the job market needs
- **Cross-sectorial**
 - Physical measurements
 - Chemical measurements (chemical analyses)
 - Metrology
 - Quality systems
 - Economic and legal aspects of measurements
 - Practical placement

The education that you will get is of very broad applicability

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AMS Programme structure

AMS

Obligatory Module (45 ECTS)

Courses: Measuring and Instrumentation, Measurement Data Processing, Lab of Physical Measurements, Practical Chemical Analysis Methods, Lab of Chemical Analysis Methods, Fundamentals of Metrology, Metrology in Chemistry, Seminar in Measurement Science, Quality Systems

Elective Module (30 ECTS, courses can be chosen from the list)

Courses: Measurements in Biochemistry, Measurements and the Law, Economic Aspects of Measurements, Signal Processing, Chemometrics, Environment and Measurement, Structural Analysis, Introduction to Electroanalysis, Introduction to Forensic Analysis, Principles and applications of fluorescence spectroscopy etc

Optional Subjects (6 ECTS, any courses can be chosen university-wide)

Internship (9 ECTS, internship placement in industry or analysis or calibration laboratories)

Master's thesis (30 ECTS, research project with a topic related to measurement science)

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AMS

Applied Measurement Science (120 ECTS) "AMS"

1. Obligatory subjects (45 ECTS) "AMS"	
LQKT06.026	Master's Seminar in Measurement Science (12 ECTS)
LQFY01.039	Measurement Data Processing (3 ECTS)
LQFY01.036	Measuring and Instrumentation (3 ECTS)
LQKT06.030	Metrology in Chemistry (6 ECTS)
LQFY01.037	Modern Metrology (3 ECTS)
LQKT06.032	Practical Chemical Analysis (6 ECTS)
LQKT06.033	Practical Works in Chemical Analysis and Metrology (6 ECTS)
LQFY01.040	Practical Works on Physical Measurement and Calibration (3 ECTS)
LQKT06.031	Quality Systems (3 ECTS)
2. Elective subjects (30 ECTS) "AM"	
LQKT06.047	Atomic Spectroscopy (3 ECTS)
LQKT06.043	Reading Course in Chemistry (3 ECTS)
LQKT06.002	Chemometrics (6 ECTS)
LQTY05.037	Digital Image Processing (6 ECTS)
LQKT06.011	Economic Aspects of Measurements (3 ECTS)
LQKT06.035	Electrochemical Methods for Quantitative Analysis (3 ECTS)
LQKT06.018	English Terminology in Chemistry (6 ECTS)
LQKT06.012	Environment and Measurement (3 ECTS)
LQKT06.014	Estimation of Measurement Uncertainty in Chemical Analysis (1 ECTS)
LQKT06.061	Introduction to Electroanalysis (3 ECTS)
LQKT06.016	Introduction to Forensic Analysis (3 ECTS)
LQKT06.054	LC-MS Methods Validation (2 ECTS)
LQKT06.015	Liquid Chromatography and Mass Spectrometry (6 ECTS)
LQFY05.051	Master's Course in Biological Physics (3 ECTS)
LQKT01.063	Materials Characterization and Testing Methods in Chemistry (6 ECTS)
LQKT06.029	Measurement Science in Chemistry Summer School (12 ECTS)
LQKT06.034	Measurements and the Law (3 ECTS)
LQKT06.017	Measurements in Biochemistry (3 ECTS)
LQKT06.012	Principles and Applications of Fluorescence Spectroscopy (3 ECTS)
LQTY05.016	Proboscis (3 ECTS)
LQFY01.040	Signal Processing (3 ECTS)
LQKT06.002	Structural Analysis (3 ECTS)
3. Optional courses (6 ECTS) "AM"	
A. Practical speciality training (9 ECTS) "AM"	
LQKT06.017	Practical Security Training (3 ECTS)
5. Master's thesis (30 ECTS) "AM"	
LQKT06.001	Master's Thesis (30 ECTS)

AMS Programme structure

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Excellence in Analytical Chemistry

AMS
EACH

- Stemmed from AMS via **Erasmus Mundus**
- **Full-fledged contemporary analytical chemistry master's degree programme (120 ECTS)**
- Tuned to the job market needs
 - Future-oriented
 - Metrology topics, Socio-economic aspects
 - Practical placement
 - **2nd year at a different university**

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Excellence in Analytical Chemistry

AMS
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- **Four European universities excelling in different fields:**

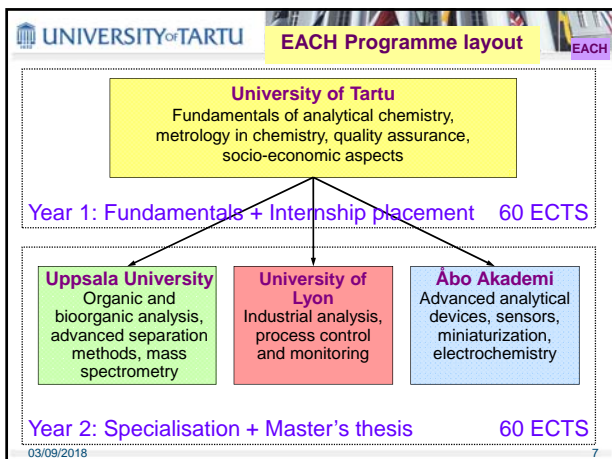
Fundamentals of analytical chemistry, metrology in chemistry, quality assurance, socio-economic aspects

Organic and bioorganic analysis, advanced separation methods, mass spectrometry

Industrial analysis, process control and monitoring

Advanced analytical devices, sensors, miniaturization, electrochemistry

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UNIVERSITY OF TARTU **EACH**

Existence in Analytical Chemistry (20 ECTS) "and"

1. General Analytical Chemistry Module (9 ECTS) "and"
Principles of module selection: Obligatory for all students studying in the programme.
LOKT.06.000 Metrology Science and Measurement Science I (6 ECTS)
LOKT.06.001 Measurement Data Processing (3 ECTS)
LOKT.06.002 Practical Chemical Analysis (6 ECTS)
LOKT.06.003 Practical Chemical Analysis and Metrology (6 ECTS)

2. Metrology and Quality Management Module (9 ECTS) "and"
Principles of module selection: Obligatory for all students studying in the programme.
LOKT.06.000 Metrology Science and Measurement Science I (6 ECTS)
LOKT.06.002 Quality Systems (3 ECTS)

3. Sociocultural Module (9 ECTS) "and" Elective
Principles of module selection: The student has to choose at least two out of the three courses - LOKT.04.072, LOKT.06.034 or MAF.10.027 - and one foreign language course.
LOKT.06.011 Economic Aspects of Measurement (3 ECTS)
LOKT.06.012 Measurement and Measurement (3 ECTS)
LOKT.06.013 Language for Researchers on the Basis of English - Level 2 - A1.1 (6 ECTS)
LOKT.06.014 French for Researchers on the Basis of English - Level 2 - A1.1 (6 ECTS)
LOKT.06.015 Measurements and the Law (3 ECTS)
LOKT.06.016 Swedish for Researchers I on the Basis of English - Level 2 - A1.2 (6 ECTS)

4. Internship (9 ECTS) "and"
Principles of module selection: Obligatory for all students studying in the programme.
LOKT.06.000 Practical Strength Training (6 ECTS)

5. Elective courses (9 ECTS) "and" Elective
Principles of module selection: The student completes the elective module independently keeping in mind the 3 year specialisation and the recommendations of the Programme Director.
LOKT.06.047 Atomic Spectroscopy (3 ECTS)
LOKT.06.048 Biogenic Course in Chemistry (3 ECTS)
LOKT.06.049 Chemistry (6 ECTS)
LOKT.06.050 Electrochemical Methods for Quantitative Analysis (3 ECTS)
LOKT.06.051 Introduction to Measurement Uncertainty in Chemical Analysis (1 ECTS)
LOKT.06.052 Introduction to Electroanalysis (3 ECTS)
LOKT.06.053 Introduction to Forensic Analysis (1 ECTS)
LOKT.06.054 LC-MS Methods (Module) (4 ECTS)
LOKT.06.055 Liquid Chromatography and Mass Spectrometry (6 ECTS)
LOKT.06.056 Master's Course in Biological Physics (3 ECTS)
LOKT.06.057 Measurements in Chemistry Summer School (12 ECTS)
LOKT.06.058 Metrology and Instrumentation (3 ECTS)
LOKT.06.059 Modern Metrology (3 ECTS)
LOKT.06.060 Physical Aspects of Physical Measurement and Calibration (3 ECTS)
LOKT.06.061 Principles and Applications of Fluorescence Spectroscopy (3 ECTS)
LOKT.06.062 Synthesis (3 ECTS)
LOKT.06.063 Social Processes (3 ECTS)
LOKT.06.064 Structural Analysis I (3 ECTS)

6. Optional subjects (9 ECTS) "and"
Principles of module selection: Any courses taught at the University of Tartu or other HEIs.

7. Specialisation module and language module (20 ECTS) "and"
7.1. Specialisation module in Uppsala (20 ECTS) "and"
Organic and bioorganic analysis and multiresidue separation techniques (20 ECTS) "and"
AMS119 Advanced Mass Spectrometry (15 ECTS)
AMS124 Applied Analysis of Complex Samples (15 ECTS)

7.2. Specialisation module in University of Lyon (20 ECTS) "and"
Industrial analytical chemistry module (20 ECTS) "and"
French language (6 ECTS) "and"

7.3. Specialisation module at Åbo Akademi (20 ECTS) "and"
Electroanalytical module (20 ECTS) "and"
A10204.0 Applied Electrochemistry (5 ECTS)
A10202.0 Chemical Sensors (5 ECTS)
A10217.0 Seminars in Analytical Chemistry (5 ECTS)
A10203.0 Special Project in Analytical Chemistry (10 ECTS)

8. Master's Thesis (20 ECTS) "and"
Principles of module selection: Obligatory for all students.
LOKT.06.000 Master's Thesis (20 ECTS)

EACH Programme structure (1)

UNIVERSITY OF TARTU **EACH**

Existence in Analytical Chemistry (20 ECTS) "and"

1. General Analytical Chemistry Module (9 ECTS) "and"
Principles of module selection: Obligatory for all students studying in the programme.
LOKT.06.000 Metrology Science and Measurement Science I (6 ECTS)
LOKT.06.001 Measurement Data Processing (3 ECTS)
LOKT.06.002 Practical Chemical Analysis (6 ECTS)
LOKT.06.003 Practical Chemical Analysis and Metrology (6 ECTS)

2. Metrology and Quality Management Module (9 ECTS) "and"
Principles of module selection: Obligatory for all students studying in the programme.
LOKT.06.000 Metrology Science and Measurement Science I (6 ECTS)
LOKT.06.002 Quality Systems (3 ECTS)

3. Sociocultural Module (9 ECTS) "and" Elective
Principles of module selection: The student completes the elective module independently keeping in mind the 3 year specialisation and the recommendations of the Programme Director.
LOKT.06.047 Atomic Spectroscopy (3 ECTS)
LOKT.06.048 Biogenic Course in Chemistry (3 ECTS)
LOKT.06.049 Chemistry (6 ECTS)
LOKT.06.050 Electrochemical Methods for Quantitative Analysis (3 ECTS)
LOKT.06.051 Introduction to Measurement Uncertainty in Chemical Analysis (1 ECTS)
LOKT.06.052 Introduction to Electroanalysis (3 ECTS)
LOKT.06.053 Introduction to Forensic Analysis (1 ECTS)
LOKT.06.054 LC-MS Methods (Module) (4 ECTS)
LOKT.06.055 Liquid Chromatography and Mass Spectrometry (6 ECTS)
LOKT.06.056 Master's Course in Biological Physics (3 ECTS)
LOKT.06.057 Measurements in Chemistry Summer School (12 ECTS)
LOKT.06.058 Metrology and Instrumentation (3 ECTS)
LOKT.06.059 Modern Metrology (3 ECTS)
LOKT.06.060 Physical Aspects of Physical Measurement and Calibration (3 ECTS)
LOKT.06.061 Principles and Applications of Fluorescence Spectroscopy (3 ECTS)
LOKT.06.062 Synthesis (3 ECTS)
LOKT.06.063 Social Processes (3 ECTS)
LOKT.06.064 Structural Analysis I (3 ECTS)

6. Optional subjects (9 ECTS) "and"
Principles of module selection: Any courses taught at the University of Tartu or other HEIs.

7. Specialisation module and language module (20 ECTS) "and"
7.1. Specialisation module in Uppsala (20 ECTS) "and"
Organic and bioorganic analysis and multiresidue separation techniques (20 ECTS) "and"
AMS119 Advanced Mass Spectrometry (15 ECTS)
AMS124 Applied Analysis of Complex Samples (15 ECTS)

7.2. Specialisation module in University of Lyon (20 ECTS) "and"
Industrial analytical chemistry module (20 ECTS) "and"
French language (6 ECTS) "and"

7.3. Specialisation module at Åbo Akademi (20 ECTS) "and"
Electroanalytical module (20 ECTS) "and"
A10204.0 Applied Electrochemistry (5 ECTS)
A10202.0 Chemical Sensors (5 ECTS)
A10217.0 Seminars in Analytical Chemistry (5 ECTS)
A10203.0 Special Project in Analytical Chemistry (10 ECTS)

8. Master's Thesis (20 ECTS) "and"
Principles of module selection: Obligatory for all students.
LOKT.06.000 Master's Thesis (20 ECTS)

EACH Programme structure (2)

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Peculiarities of both programmes

- International programme
 - Students with **different backgrounds**
 - Introductory tests in some courses
 - Some **levelling activities** may be necessary
- Some of the topics are still new to university programmes
 - Harmonization underway

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Some more things

- **Optional courses**
 - Also electives can be selected for optional
- **Master's thesis (30 ECTS)**
 - Research work in a research group
 - Mostly during year 2
 - Must be at least "potentially publishable,"
- **Internship placement**
 - You have to be active!
- **Winter School** **EACH only**
 - January 2019 in Åbo (Turku), Finland
 - <https://each.ut.ee/EACH/each-winter-school/>
- **Summer School**
 - Summer 2019 (Lyon, not 100% sure yet)
 - <https://www.msc-euromaster.eu/>
 - <https://each.ut.ee/EACH/msc-summer-school-2018-successfully-finished/>

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Study progress requirements

- Study administration: **SIS** (ois.ut.ee)
 - New version will come in Dec 2018
- The overall programme is **120 ECTS**
- Minimum numbers of ECTS:
 - 1 semester: **24 ECTS**
 - 1 year: **54 ECTS**
 - but **60 is VERY STRONGLY RECOMMENDED!** **EACH only**
 - Special situation with Swedish language at UUU **EACH only**
 - Special situation at UCBL (60 ECTS is needed during year 1)
- Please check: **EACH only**
 - www.ut.ee/EACH/student-agreement/
- If problems: contact Anu Teearu

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Autumn and spring

- Course that takes place in autumn as a rule **does not** take place in spring
 - All obligatory courses that run in Autumn 2018 should be taken in Autumn 2018
 - They cannot be taken in spring 2019
 - EACH: if you cannot pass an obligatory 1st year course you cannot go to the second year and cannot graduate from EACH
 - In such cases we offer possibility to transfer to AMS
 - But tuition waiver cannot be 100% guaranteed
- If problems:
 - First, talk to teacher
 - Then contact Ivo Leito

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UNIVERSITY OF TARTU AMS EACH

Registration to courses and cancelling registration

- You have to register yourself to courses
 - Via SIS, normally until 16.09.2018
 - If for some reason you did not manage to register
 - please go to the course anyhow!
 - Ask Anu
- Cancellation
 - Normally possible until 16.09.2018
 - Or two weeks from start of the course
 - Later cancellation is possible only in the case of very special circumstances
 - Questions, problems related to registration: Anu Teearu
 - (Cancellation: Ivo)
 - All courses will be on your transcript

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UNIVERSITY OF TARTU AMS EACH

Autumn timetable

Not final!

Time	Course code	Course title	Location	Week(s)	Group(s)	Lecturer(s)
Monday						
8:15 - 11:00	LTKT 06.009	Chemical Analysis Lab for Beginners (practical session)	Ravila 1AA - 1108	2-12		Liina Ems
14:15 - 16:00	LTKT 06.014	Quality Systems (lecture)	Ravila 1AA - 1020	3-12		Liina Ems
14:15 - 18:00	LOKT 10.017	Measurements in Biochemistry (practical session)	Ravila 1AA - 1109	5-12	1. rühm	Mairo-Johanna Takki
16:15 - 18:00	LTKT 06.017	Nanomaterials and Nanotechnology and their Applications in Analytical Chemistry (lecture)	Ravila 1AA - 1109	5		Norainis Nath Ghosh
16:15 - 18:00	LOKT 10.017	Measurements in Biochemistry (practical session)	Ravila 1AA - 1109	13	1. rühm	Mairo-Johanna Takki
16:15 - 18:00	LTKT 06.017	Nanomaterials and Nanotechnology and their Applications in Analytical Chemistry (lecture)	Ravila 1AA - 1109	6		Norainis Nath Ghosh
16:15 - 18:00	LOKT 10.017	Measurements in Biochemistry (lecture)	Ravila 1AA - 1070	5-6	1. rühm	Mairo-Johanna Takki
Tuesday						
8:15 - 10:00	HVLC 06.010	Swedish for Beginners I (on the Basis of English, Level 0 - A1.2 (practical session))	Jakobi 2 - 109	1-16		Kristina Mollman
8:15 - 10:00	HVLC 03.006	French for Beginners I (on the Basis of English, Level 0 - A1.1 (practical session))	Jakobi 2 - 102	1-16	Group B	Reet Ains
10:30 - 12:00	LTKT 06.017	Nanomaterials and Nanotechnology and their Applications in Analytical Chemistry (lecture)	Ravila 1AA - 1109	5		Norainis Nath Ghosh
12:15 - 14:00	LTKT 06.017	Nanomaterials and Nanotechnology and their Applications in Analytical Chemistry (lecture)	Ravila 1AA - 1109	5		Norainis Nath Ghosh
14:15 - 16:00	LOKT 06.047	Atomic Spectrometry (lecture)	Ravila 1AA - 1032	2-16		Ivo Leito, Pärtel Pärtel
16:15 - 18:00	LTKT 06.017	Nanomaterials and Nanotechnology and their Applications in Analytical Chemistry (lecture)	Ravila 1AA - 1109	6		Norainis Nath Ghosh
16:15 - 18:00	HVLC 03.006	French for Beginners I (on the Basis of English, Level 0 - A1.1 (practical session))	Lõvi 3 - 228	2-16	Group C	Leanne Hviin

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UNIVERSITY OF TARTU AMS EACH

Autumn timetable

Not final!

Time	Course code	Course title	Location	Week(s)	Group(s)	Lecturer(s)
Wednesday						
8:15 - 10:00	LOFY 01.036	Measuring and Instrumentation (lecture)	W. Otsvaldi tn 1 - A102	1-16		Koht Mering
10:15 - 12:00	LOKT 06.008	Chemometrics (lecture)	Ravila 1AA - 1021	1-16		Greeta Pär
12:15 - 14:00	LOKT 06.032	Practical Chemical Analysis (lecture)	Ravila 1AA - 1100	1-16		Ivo Leito, Koht Mering, Ülo Mäeorg
14:15 - 16:00	LOKT 09.022	Structural Analysis I (lecture)	Ravila 1AA - 1070	1-16		Ivo Leito
16:15 - 18:00	LOKT 06.050	Minor's Seminar in Measurement Science I (seminar)	Ravila 1AA - 1100	2-16		Ivo Leito
Thursday						
8:15 - 10:00	HVLC 03.006	French for Beginners I (on the Basis of English, Level 0 - A1.1 (practical session))	Jakobi 2 - 102	1-16	Group B	Reet Ains
8:15 - 10:00	HVLC 06.010	Swedish for Beginners I (on the Basis of English, Level 0 - A1.2 (practical session))	Jakobi 2 - 109	1-16		Kristina Mollman
10:15 - 12:00	LOFY 01.037	Modern Metrology (lecture)	W. Otsvaldi tn 1 - A111	2-16		Maria Vilhaste
12:15 - 18:00	LTKT 06.009	Chemical Analysis Lab for Beginners (practical session)	Ravila 1AA - 1108	2-12		Thursday
16:15 - 18:00	LTKT 06.017	Nanomaterials and Nanotechnology and their Applications in Analytical Chemistry (lecture)	Ravila 1AA - 1109	5		Norainis Nath Ghosh
16:15 - 18:00	HVLC 03.006	French for Beginners I (on the Basis of English, Level 0 - A1.1 (practical session))	Lõvi 3 - 228	2-16	Group C	Leanne Hviin

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Selecting students for study tracks

- You have **two possibilities** to express your preference:
 - When submitting application (in the motivation letter)
 - During Winter school
 - January 2019
 - see <http://www.ut.ee/EACH/each-winter-school/>
- Students are selected taking into account
 - Their preference
 - Grades of compulsory courses obtained during the first semester at Tartu
 - Knowledge of local language (to a very limited degree)
 - Possibly interview or presentation during Winter school
- Final decisions** are made during Winter school in Jan 2019

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Study track preferences: current status

- Your current preferences and tentative maximum numbers of students:

Study track	UU	UCBL	AAU
First preference	11	8	1
Second preference	7	6	7
Tentative maximum number for study track:	5	8	8

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Aspects to take into account in selecting study track

- **Research fields** in the 2nd year universities
- **Competition** for the 2nd year universities
 - Your grades at Tartu matter!
- **Language** skills and what language you study at Tartu
 - French vs Swedish
- **Practicalities**
 - See next slide

On Nov 13, 2018 the 2nd year academics will be in Tartu to meet you and present the study tracks

Some time in Dec we will organise Skype sessions with 2nd year students

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Comparison of study track practicalities

<https://each.ut.ee/EACH/practical-information/>

Aspect	UU	UCBL	AAU	Comments
Workload and the difficulty level of studies compared to Tartu University	Highly competitive. Sources are intense with lectures followed by lab work and report writing. Exams are of 6 hours and 6 hours feels like a blink when you solve the papers.	Similar to Tartu, but somewhat less intense. However, all of the exams are in one week.	Similar to Tartu, perhaps more flexible.	At UU some of the students who were top at Tartu do not feel top students at UU
Level of programme adaptation and guidance	Could be better.	Could be better.	OK	
Knowledge of English needed	Above average	Average (can be compensated in part by knowledge of French)	Average	Some of the students are having difficulties with keeping track of the lectures at UU
Cost of living, including accommodation	High <i>(even some of the EU scholarship holders were almost shocked when they learned about the cost of e.g. accommodation, but see slide 3 & 6; monthly costs 40-60 €; students prefer living than bus in UU)</i>	Tolerable <i>If you rent an apartment, the apartment area you small money, but you have to apply for it and the application process is long and tedious.</i>	Tolerable <i>The student lunch is highly subsidised. The monthly bus ticket is expensive although it is reduced for students.</i>	
Possibility of getting financial support for those without EU scholarship	Unlikely <i>Industrial internship will not necessarily be paid.</i>	In spring semester the industry will pay, industrial internship pay more than internships in labs. In autumn semester it may be possible to earn small money (e.g. 100 € per month) by helping professors (e.g. with translation).	Up to now the students who are at AAU were linked to companies, which pay some money, but then the thesis work is related to the interests of the company.	<i>Internships in Estonia can be paid or not but are mostly not paid</i>

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Climate	As in Estonia	Warmer than in Estonia	As in Estonia	AAU study track has up to now been the least competitive
Possibility to plan ahead that you go to this university	Impossible at present	Impossible at present	Probably possible	EU students can go to UU without limits
The tentative (not binding) maximum number of students	5	8	8	
Necessity of local language for routine life	English is enough	Local language is recommended	English is enough	
Options with thesis project	Thesis topics not everyone would see interesting (e.g. environmental analysis, etc)	Usually very practical, related to the needs of industry. Work at industry is very interesting, highly educational, providing networking opportunities and learning in a different environment	Sensors or industrial (in the latter case industry usually pays)	
Possibility of paper publication	If the thesis works goes well then you are encouraged by supervisor for publication.			
Prospects after degree	PhD admission in UU is highly competitive. Swedish language is required for job unless you have strong recommendation for a job.	Several people found jobs immediately at the same industries where they worked	All who have graduated have found either job or PhD position	I would not expect big employment problems with a degree from any of the 3 "best universities"
The City	Smaller city than Lyon and quite University-centric	Beautiful, international community very big and highly active, activities and contents for every taste	Smaller city than Lyon	

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Locations of teaching

- Chemistry building "Chemicum" Ravila 14a

– Ground floor is publicly accessible



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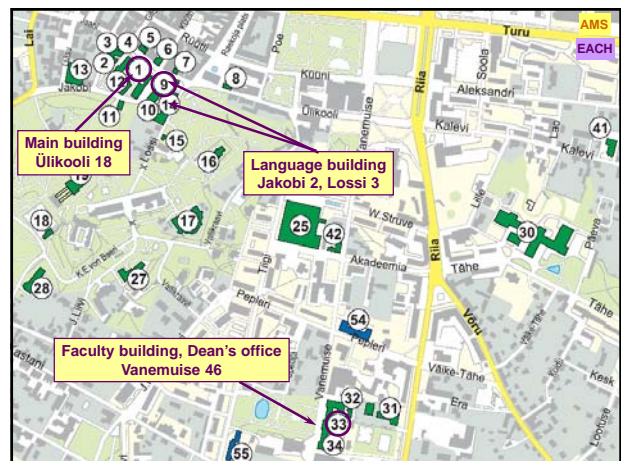
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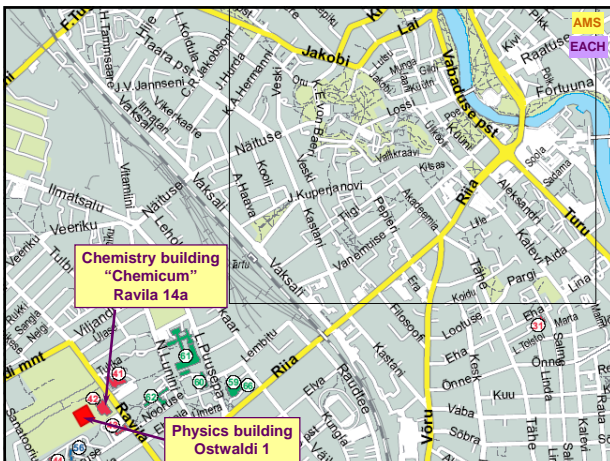
Locations of teaching

- Physics building „Physicum“ Ostwaldi 1



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Academic Coordination and Development

Ivo Leito, academic coordinator

- ivo.leito@ut.ee, +372 5 184 176, Skype: leitoivo (preferred), Ravila 14a - 4034

– Academic questions:

- contents of courses, which electives to take, finding supervisor, choosing study track, internship placement ...

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Administrative Coordinator

Anu Teearu, administrative coordinator

- anu.teearu@ut.ee, +372 56 568 216, Ravila 14a - 4030

– Practical/technical questions:

- stipends, health insurance, admin documents, transfer to 2nd year, travel to winter school ...
- At 2nd year university: first local people, if no help, then Anu

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Tutor

Kristi Palk, tutor

- kristipalk@gmail.com

My name is Kristi and I'm actually a physics teacher. I teach physics in middle school and in high school. I studied to be a science teacher and then studied educational management and got a master's Degree in social Sciences. At the moment I'm getting also a master's Degree in education. I became a tutor because I thought that working with students would be an exciting challenge and I like to help people.

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Study Abroad Centre

<https://sisu.ut.ee/gettingstarted/>

- Central support unit for international students
 - Ülikooli 18 – 134, the „Main building“
 - Web explains, whom to contact
- Problems not directly related to the study programme
 - visa, residence permit, dormitory, bank account ...

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Academic leaders at second year universities

- Prof. Jonas Bergquist (UU)**
 - A worldwide leader in biomedical LC and MS
- Prof. Jérôme Randon (UCBL)**
 - Founder of the unique industrial analysis programme at Lyon
- Prof. Johan Bobacka (AAU)**
 - His work on miniature sensors is „probing“ the future of analytical chemistry

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UNIVERSITY of TARTU AMS EACH

Communication with teachers

- The most common way: **e-mail**
 - If no response in 4 days – resend
 - If no response after 3 mails – find another way
- Some prefer **Skype**
 - Ivo Leito
- **Facebook**: not many teachers use Facebook for communication
 - Ivo Leito can use Facebook messenger

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How to communicate with Ivo?

- If you want **slow responses** or want **just to inform Ivo** use e-mail
 - Typical response time: **4-6 days**
 - Use CC liberally
- If you want **fast responses**, use Skype (messages, not calls)
 - Typical response time: **few minutes to few of hours**

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Organisation of courses, Exam times

- Info from teacher is superior to SIS
- Attending courses – info from teacher
- Academic calendar:
 - SIS
 - <http://www.ut.ee/EACH/study-regulations/> **EACH only**
- Course organisation is usually explained during the first class
 - **Please be present**
 - **Please respect starting times!**
- Exam times are agreed between students and teachers
 - Please take initiative!
- You may want to visit your homeland in Dec-Jan
- EACH Winter school: 21-25.01.2019 **EACH only**
 - 20 and 26.01.19 are (probably) travel days
 - Winter School is **compulsory** for EACH students

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UNIVERSITY of TARTU AMS EACH

Deadlines, Academic honesty

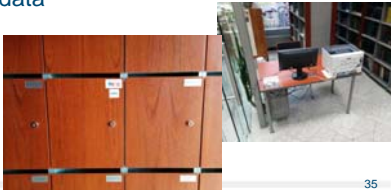
- Deadline is a **DEADLINE**
 - In general non-negotiable
 - **Do not leave your assignments to the last minute!**
- Academic honesty is a must
 - **Any form of plagiarism is unacceptable!**
 - May lead to expulsion from the programme
 - If in doubt, what is allowed, ask Ivo

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Some more things

- Your contact data in SIS
- Order in classroom and lab
- Why we generally do not make exceptions?
- Letters of recommendation
- Avoiding loss of data
- Library, Printer
- Mailbox
- Application fee
- Group photo



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Study agreements

- These are listed on each.ut.ee/EACH/student-agreement/
 - Some changes will still be made
 - No need to print it out before signing
- To be signed during the second week of September
 - Anu will inform when and where the agreement can be signed
- If questions, please consult Anu



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Scholarships

- **EU scholarship**
 - First payment September or October, depending on how fast you can open bank account:
 - monthly scholarship: 1000 euros
 - travel contribution: 1st half paid out in September/October? 2018 and 2nd half in September 2019
 - installment contribution: 1000 euros for partner country students
- No additional agreement needed – terms are in Study Agreement
- The end date of your studies depends on 2nd year university
 - Probably: UCBL Aug 19, UU Jun 19, AAU Aug 19



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Other scholarships

- Not abundant possibilities unfortunately
- Programme websites
- **Research Scholarships** First of all for AMS
 - paid by research groups where you do your thesis work
- Some other options:
 - www.ut.ee/en/study-allowances-0
- Erasmus+ mobility
 - <http://www.ut.ee/en/erasmus>
 - Student exchange
 - EACH students for the 2nd year EACH only

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Opening bank account

- Scholarships
 - cannot be paid in cash
 - UU, AAU: scholarships are paid to Estonian bank accounts only EACH only
 - UCBL: scholarships can be paid to French bank accounts EACH only
- Banks in Estonia and their service fees: www.ut.ee/en/welcome/banking-system
 - For opening an account in Swedbank TRP is not needed

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Health insurance (EACH scholarship holders only)

- Read the conditions carefully
- If hospitalised, immediately inform the insurance provider – XL Catlin Insurance Company SE (in cooperation with Marsh Insurance)
 - 24/7 helpline: +44 800 279 9734
- Be ready to cover your expenses first and then be reimbursed


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Other details

- Original documents to Student Admissions – must be submitted by Sept 15
- Estonian ID number - *isikukood* (from your card of residency) - send to Anu and add to the SIS
- Orientation course presentations available on sisu.ut.ee/gettingstarted/orientation-course-presentations

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Lab skills

- **Questionnaire**
- **Introductory lab course**
 - For those with limited lab experience
 - Contains glassware calibration, titration, sample preparation and simple photometry
 - Two groups:
 - Monday 9.15 – 13.00
 - Thursday 12.15 – 16.00
- **Compulsory for all: introductory lab test**
 - On Mon 10.09 in two groups:
 - 9.00 – 12.00 and 13.00 – 16.00
 - Based on the results it will be decided, who will be taking the course

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Safety in labs

- Highly important
- Modern labs, safety equipment according to EU standards is available
- You will undergo safety instruction in the beginning of practical courses
- Safety rules in UT labs:
 - <https://each.ut.ee/EACH/study-regulations/>
(bottom of page)