



STUDY CULTURE AND PRACTICES OF EDUCATION & EXAMINATION

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Outline

- General impressions of Finland
- “Position” of the WCE degree programme at the University of Oulu
- Studies in Finland
- Course materials
- Structure of your studies
- Teaching arrangements
- Some basic rules
- Grades
- Master’s thesis
- Instructions for the Master’s Thesis and Graduation

General impressions of Finland (1/2)

- Low hierarchy & informal
 - No need to call Sir, Mister Professor, ...
 - All staff can be approached directly
 - In sauna we are “you and me, Harry and Henry”
- Teachers expect quite independent work
 - # of staff limited, limited hands-on-guidance
- People
 - don't talk much, but are helpful
 - often skip the small-talk and go directly to the topic
- Staff tends to be busy
- Bribery is extremely rare, but punishable



General impressions of Finland (2/2)

- Time zone in Finland is UTC+2 (in summer time (now) UTC+3)
- Oulu is 2 degrees south from the Arctic Circle (65N):
 - In December, we have 2 hrs of sunlight
 - In June, the sun hardly sets
 - Sun is never very high in the sky

- **Weather**

- West winds come from Atlantic
- East winds from Siberia
- -15..-30 degrees C in Dec-Feb
- Snow during December-April
- March-April; excellent weather for ski-ing

- **Food**

- Quite international



View to the northern sky in study months and summer

“Position” of the WCE degree programme at the University of Oulu (1)

Faculties



Faculty of Biochemistry and Molecular Medicine



Faculty of Education



Faculty of Humanities



ITEE

Faculty of Information Technology and Electrical Engineering



Faculty of Medicine



Faculty of Science



Faculty of Technology



Oulu Business School

“Position” of the WCE degree programme at the University of Oulu (2)

ITEE Research Groups:

CAS	CIRCUITS AND SYSTEMS PROF. TIMO RAHKONEN	CMVS	CENTER FOR MACHINE VISION AND SIGNAL ANALYSIS PROF. OLLI SILVEN
MIC	MICROELECTRONICS PROF. HELI JANTUNEN	BISG	BIOMIMETICS AND INTELLIGENT SYSTEMS PROF. JUHA RÖNING
OPEM	OPTO-ELECTRONICS AND MEASUREMENT TECHNIQUES PROF. TAPIO FABRITIUS	M3S	EMPIRICAL SOFTWARE ENGINEERING IN SOFTWARE, SYSTEMS AND SERVICES PROF. MARKKU OIVO
CWC-RT	CWC-RADIO TECHNOLOGIES PROF. MARKKU JUNTTI	UBICOMP	UBIQUITOUS COMPUTING PROF. TIMO OJALA
CWC-NS	CWC-NETWORKS AND SYSTEMS PROF. JARI IINATTI	OASIS	OULU ADVANCED RESEARCH ON SERVICE AND INFORMATION SYSTEMS PROF. HARRI OINAS-KUKKONEN
ACM	APPLIED AND COMPUTATIONAL MATHEMATICS PROF. KEIJO RUOTSALAINEN	INTERACT	HUMAN COMPUTER INTERACTION AND HUMAN-CENTERED DEVELOPMENT PROF. NETTA IIVARI

These research groups are responsible for teaching in the Degree Programme in Electronics and Communications Engineering

“Position” of the WCE degree programme at the University of Oulu (3)

Degree Programme in Electronics and Communications Engineering	
Bachelor's Programme - 3 years	Master's Programme – 2 years

Study Options				
Electronics Design	Electronics Materials and Components	Telecommunications	Radio Engineering	Photonics and Measurement Techniques

WCE-RAN	WCE-RF
<ul style="list-style-type: none"> - International programme - Separate admission - Own coordinator - Teaching in English - ... 	

Studies in Finland

- 1 year = 60 ects cr (= 1600 hr student work)
- 1 ects cr = 27 hours of student work (25-30 in EU)
- Typical course
 - 5 ects cr (130 h work – ca. half at home)
 - duration 7-9 weeks (1 period)
 - 25-30 h lectures (200+ pages handouts)
 - 14 h exercises (100+ pages handouts)
 - small lab / design work
 - exam
- Typical staff per course
 - 1 lecturer (professor, university lecturer, university teacher, senior research fellow or postdoctoral researcher)
 - 1 teaching assistant (post graduate student)
- 3-4 courses on each period

ects = European Credit Transfer and Accumulation System

Course materials

- Official course information can be found from Oodi (<https://weboodi.oulu.fi>)
- Most courses have handouts (200-300 pages)
- Library has a few copies of the textbooks
- Electronic material is typically available in MOODLE platform (<https://moodle.oulu.fi>)

Structure of your studies

- Basic module (40-41 ects cr)
- Advanced module (25-30 ects cr)
- Elective studies (17-22 ects cr)
- Training (3 or 5 ects cr)
- Master's Thesis (30 ects cr)

- Altogether 120 ects cr

Teaching arrangements

- two periods in autumn, two periods in spring
- Timetables vary between these periods
- Breaks on
 - Christmas (2 weeks)
 - Eastern (about a week)
 - Schools have 1 week holiday in Oct and 1 week in March so some teacher sync their holidays to these.
 - Summer holiday in mid-May – Sept 1
 - Some courses and exams available (more information in spring)
 - Lab/design works can be done and returned
 - Training period (2 months) usually at summer (some grants available by University and CWC)

Some basic rules (1/3)

- You will credit only once of one performance (content)
 - Example: If something is accepted as training, it is not accepted as a design exercise any more.
 - Training cannot be part of Master's Thesis

Some basic rules (2/3)

- Individual performance is individual
 - If a lab/paper is returned solo, it should be done by you only
 - If a lab is conducted as a team-work, it can be done & reported jointly. Might require own contribution explanation.
- In both cases, the report/content/program etc. should be own work, not from someone else (other group, students, wep etc)
 - Plagiarism is not allowed
 - Will be controlled, teachers can detect it !
 - Cases will be handled by University rules:
Hearing, minutes, and for decision making to Vice Dean of the Faculty (responsible for education). Performance is failed. Dean can move decision to Rector (result can be warning or exclusion from the University)

Some basic rules (3/3)

- Exams
 - Final exam after the course OR 2-3 intermediated exams or weekly exams during the course
 - 2 retakes per year
 - Always solo (individual) and controlled
 - Usually without material
 - Mobile phones are not allowed
 - Cheating and copying is kepted watch
 - Will be informed to responsible teacher for sanctions
 - Programmable calculators are usually not allowed
 - You can use pencil; if you use pen do it only for fair copy (final without corrections)
 - Due to covid-19 exams are online => course specific instructions are given on the courses.

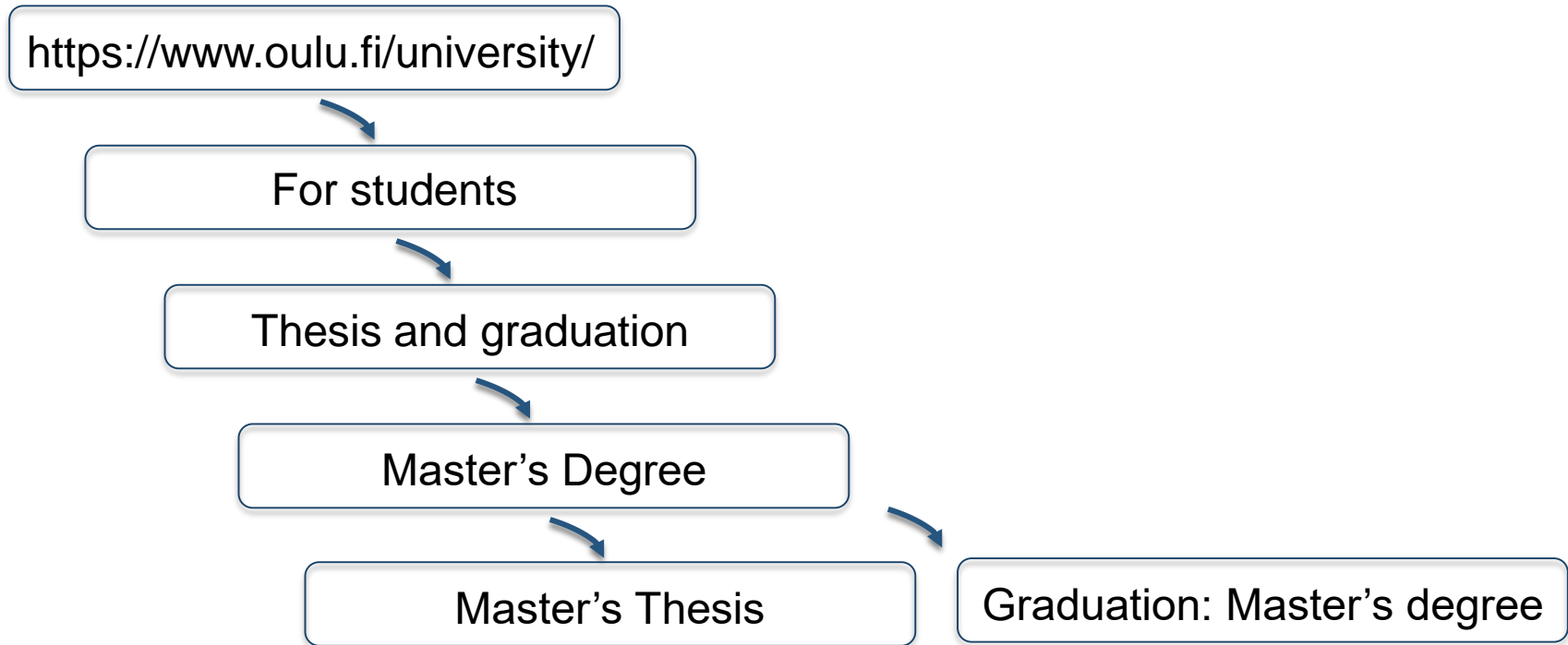
Grades

- Course grades are fail, pass and 1 to 5 (poor to excellent)
- Typically, 35-45% points is needed for passing, more than 85-90% for excellent
- The lab/design exercise may be part of grading (e.g. 20 %) or just pass/fail
- Failing is not a disaster (usually, 20-30% fails)
- Failing in one course usually does not prevent attending the following one
- Yet, all courses marked to your personal study plan have to be passed before graduating, and **obligatory courses can not be replaced**

Master's Thesis

- Worth of 30 ECTS cr (6 months full-time work)
- You have to fill an application for the thesis topic prior to beginning
- Thesis ca 50-80 pages
- Remember correct referencing:
 - No direct copy-paste referencing (re-phrase with your own words)
 - If something is borrowed, name the source [1]
- If not referenced, the text/equation/... is assumed to be developed by you
- Supervisor guides the structure & contents, usually 3-6 review meetings. Writing is iterative.
- Electronic form – word template in use
- Detailed Master's Thesis Guidelines

Instruction for the Master's Thesis and Graduation



Thank you !

Good luck in your studies !