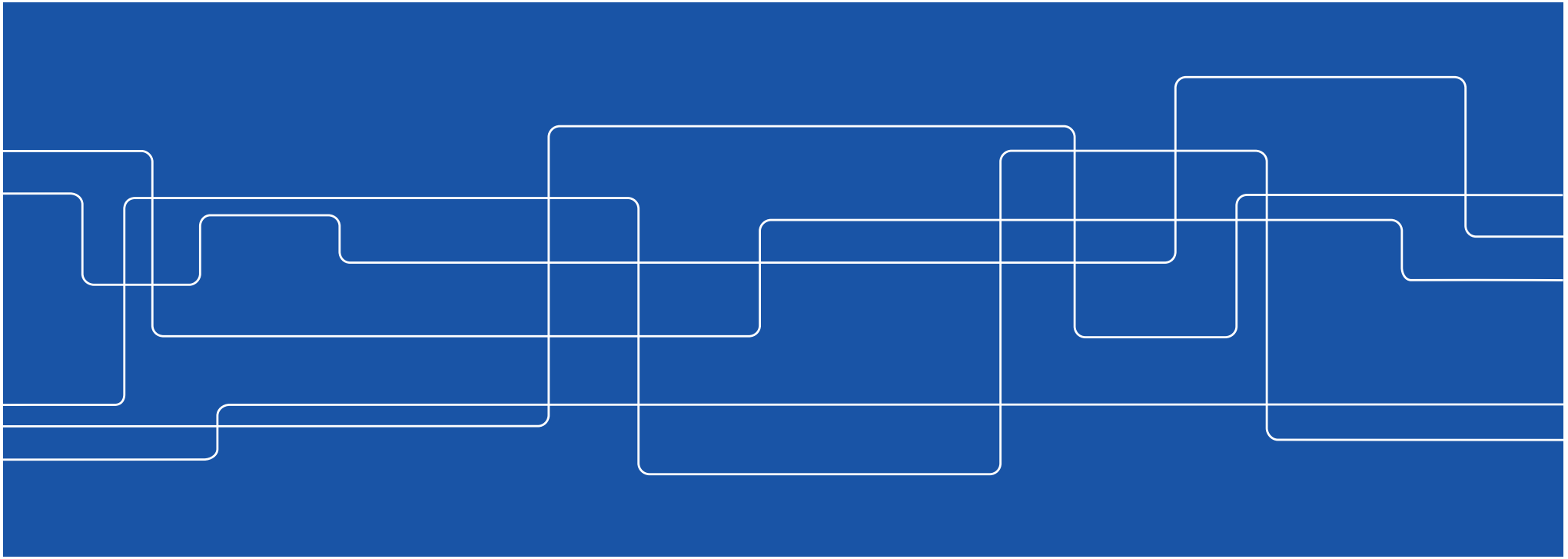
# Systems, Control and Robotics Program information meeting

2019-08-22

Petter Ögren



# Welcome meeting 22 August 2019

- **Reminder of Important dates**
- Who is who
- Program overview
- Courses
  - Academic year with periods
  - Curriculum and requirements
  - Course selection
- Thesis Project work
- Mixed Information
  - Plagiarism, Grading ...
- SCR team-challenge 2019

# Reminder of Important Dates

- **No later than August 27**
  - **Complete study plan online form**
  - Details: https://www.kth.se/social/files/5d53c3e856be5bf13ce4302d/Handout%20for%20Master%20H19_%20SN%20edit.pdf
  - Questions: ask: clv@kth.se

**Course selection**

For Autumn term 2019: when you log in into your personal menu you will see the courses you have been admitted to. If you want to modify this course selection you will need to submit a Study Plan form (web form). You have to list *ALL* the courses you intend to take during period 1 and 2. *Latest on the 27th of August* your coordinator needs to have back your study plan form, if this is the case.

From Spring term 2020 on, you will select your courses online. There are two course selection periods, **1-15 November for the Spring term and 1-15 May for the Fall term**. You sign up for the courses online at www.universityadmission.se. Each term, before the course selection period, you will receive an email from your coordinator, with all needed information, as a reminder.

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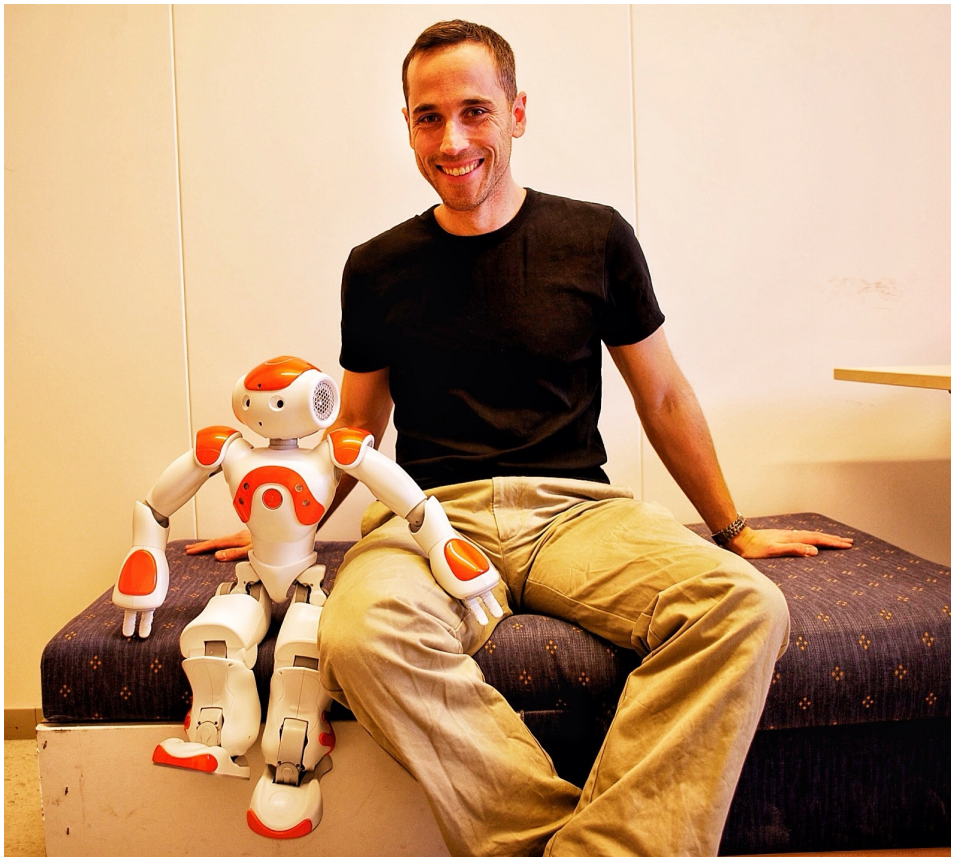
# Master Program Director: Petter Ögren

- Professor at
  - Department of Robotics Perception and Learning (RPL)
  - School of Electrical Engineering and Computer Science (EECS)
- petter@kth.se
- Teknikringen 14, floor 7
- Email to make appointment



# Co-Program director

- Elling Jacobsen
- Professor in Automatic Control
- https://www.kth.se/profile/jacobsen/
- jacobsen@kth.se
- Osquldas väg 10, floor 6
- Email for appointment

# Master Coordinator for SCR

- Cristina La Verde
- Lindstedsvägen 3
- clv@kth.se

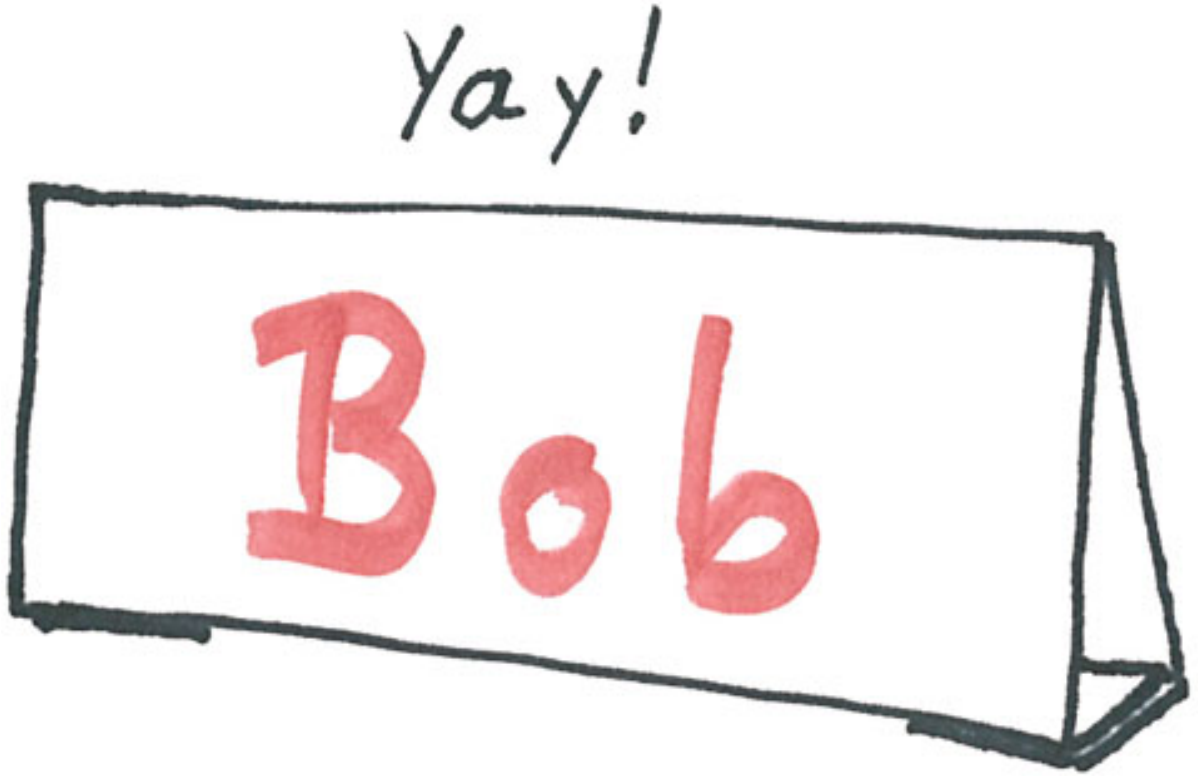
- Ask all questions to Cristina!

# Who are you?

Quick round of presentations

- Your name
- Where you come from (Country)

# Make a Nametag...



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# Program web page

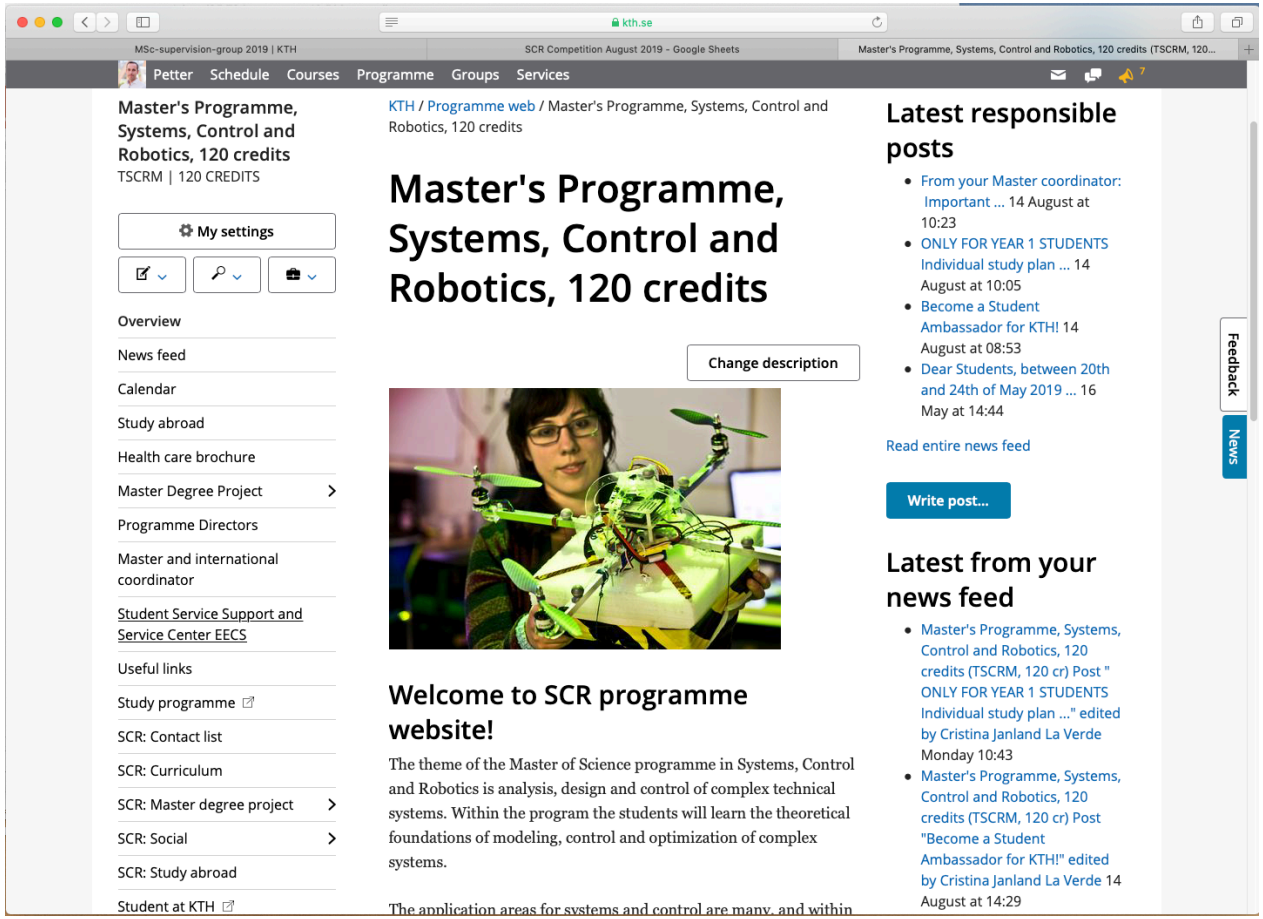
Go to kth.se

Log in (top right corner)

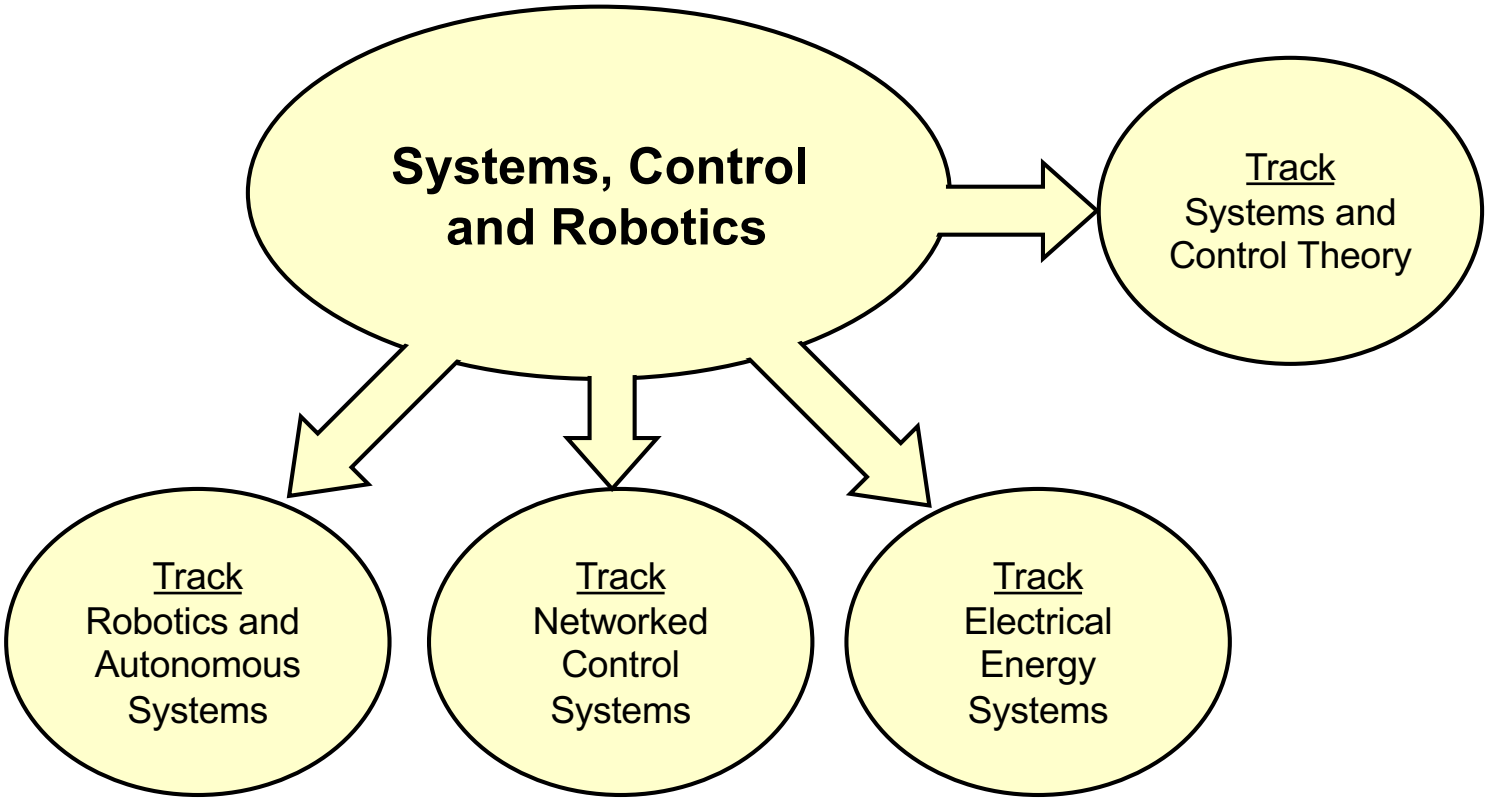
Click on Programme

You will see (or will see when you are registered)

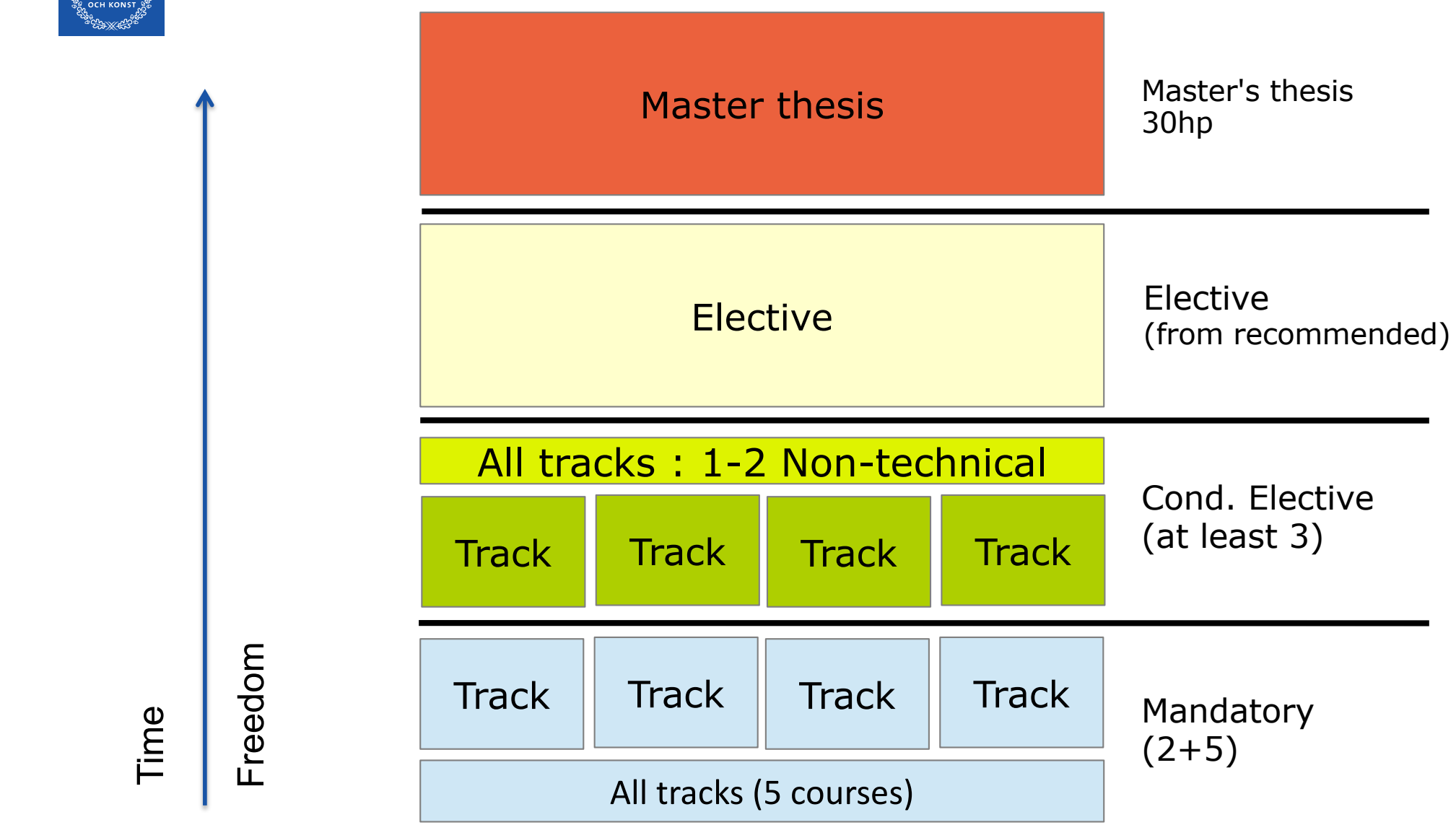
Master's Programme, Systems, Control and Robotics, 120 credits (TSCRM, 120 cr)



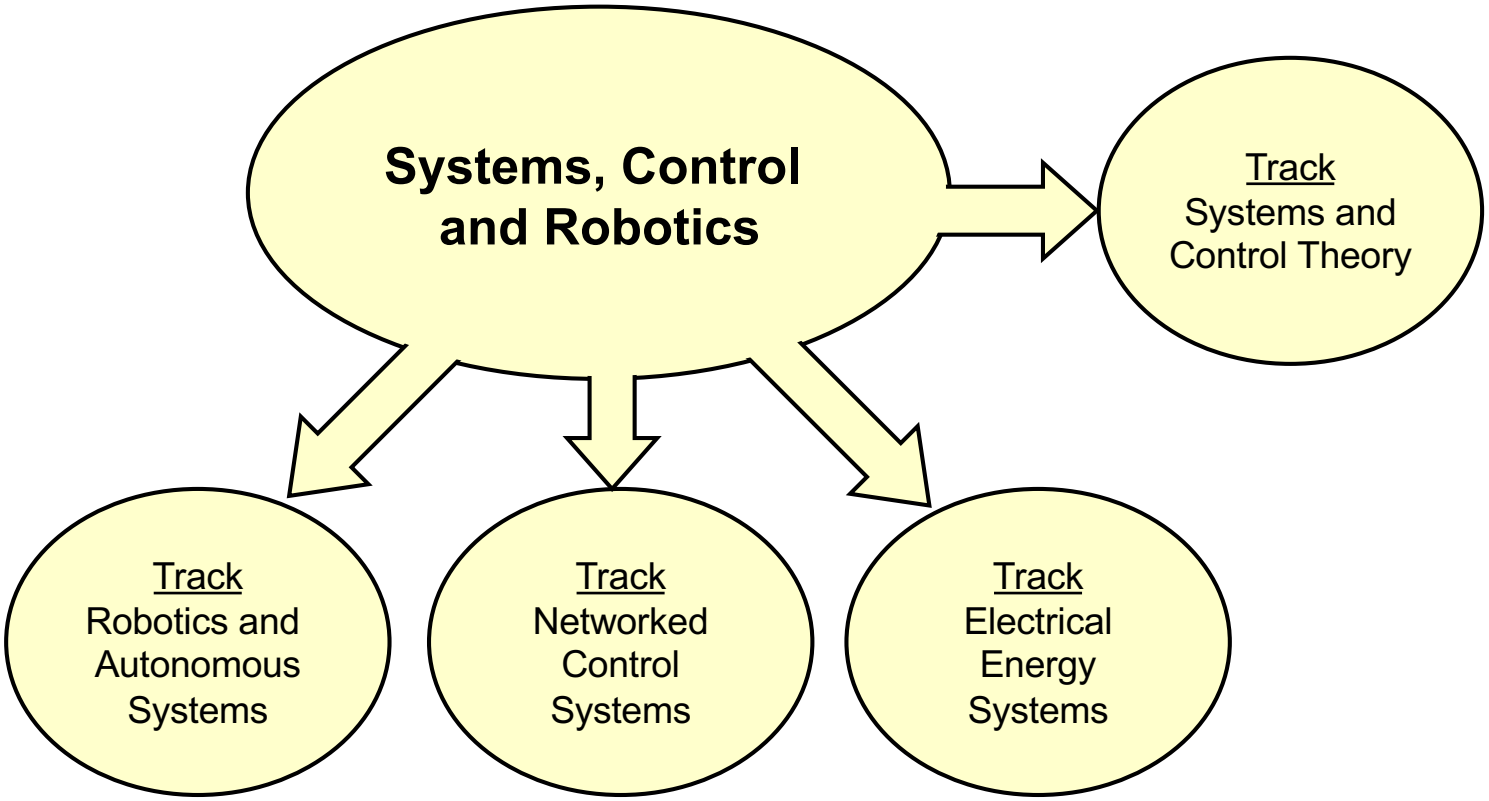
# Program Overview



# Structure of Program



# Program Overview



# Handout of Track Descriptions

# Track: Robotics and Autonomous Systems (Example)

| Course ID | Name | When | Credits | Type |
|---|---|---|---|---|
| EL2220 | The Sustainable Systems and Control Engineer | Y1-Y2 | 3 | Mandatory |
| **Year 1** | | | | |
| EL2820 | Modelling of Dynamical Systems | P1 | 7,5 | Mandatory |
| DD2410 | Introduction to Robotics | P1 | 7,5 | Mandatory |
| DD2423 | Image Analysis and Computer Vision | P2 | 7,5 | Track mandatory |
| EL2320 | Applied Estimation | P2 | 7,5 | Track mandatory |
| DD2419 | Project Course in Robotics and Autonomous Systems | P3-P4 | 9 | Project course **and** Conditionally elective |
| EL2450 | Hybrid and Embedded Control Sys. | P3 | 7,5 | Conditionally elective |
| DD2421 | Machine Learning | P3 | 7,5 | Conditionally elective |
| EL2520 | Control Theory and Practice, adv. | P4 | 7,5 | Mandatory |
| **Year 2** | | | | |
| AK2036 | Theory and Methodology of Science | P1 | 7,5 | Mandatory |
| DD2380 | Artificial Intelligence | P1 | 6 | Conditionally elective |
| XXYYYY | Non-Technical Course | P2 | 6-7.5 | Mandatory |
| DD2434 | Machine Learning, Adv. Course | P2 | 7,5 | Recommended |
| XXYYYY | Master Thesis | P3-P4 | 30 | Mandatory |

# Track: Systems and Control Theory (Example)

| Course ID | Name | When | Credits | Type |
|---|---|---|---|---|
| EL2220 | The Sustainable Systems and Control Engineer | Y1-Y2 | 3 | Mandatory |
| **Year 1** | | | | |
| EL2820 | Modelling of Dynamical Systems | P1 | 7,5 | Mandatory |
| DD2410 | Introduction to Robotics | P1 | 7,5 | Mandatory |
| EL2620 | Nonlinear Control | P2 | 7,5 | Track Mandatory |
| SF2832 | Mathematical Systems Theory | P2 | 7,5 | Conditionally Elective |
| XXYYYY | Non-Technical Course | P3 | 6 | Mandatory |
| EL2450 | Hybrid and Embedded Control Sys. | P3 | 7,5 | Conditionally Elective |
| DD2424 | Deep Learning in Data Science | P4 | 7,5 | Recommended |
| EL2520 | Control Theory and Practice, adv. | P4 | 7,5 | Mandatory |
| **Year 2** | | | | |
| AK2036 | Theory and Methodology of Science | P1 | 7,5 | Mandatory |
| EL2700 | Model Predictive Control | P1 | 7,5 | Track Mandatory |
| EL2425 | Automatic Control, Project Course, Smaller Course | P2 | 7,5 | Conditionally Elective (and Project Course) |
| EL2805 | Reinforcement Learning | P2 | 7,5 | Recommended |
| XXYYYY | Master Thesis | P3-P4 | 30 | Mandatory |

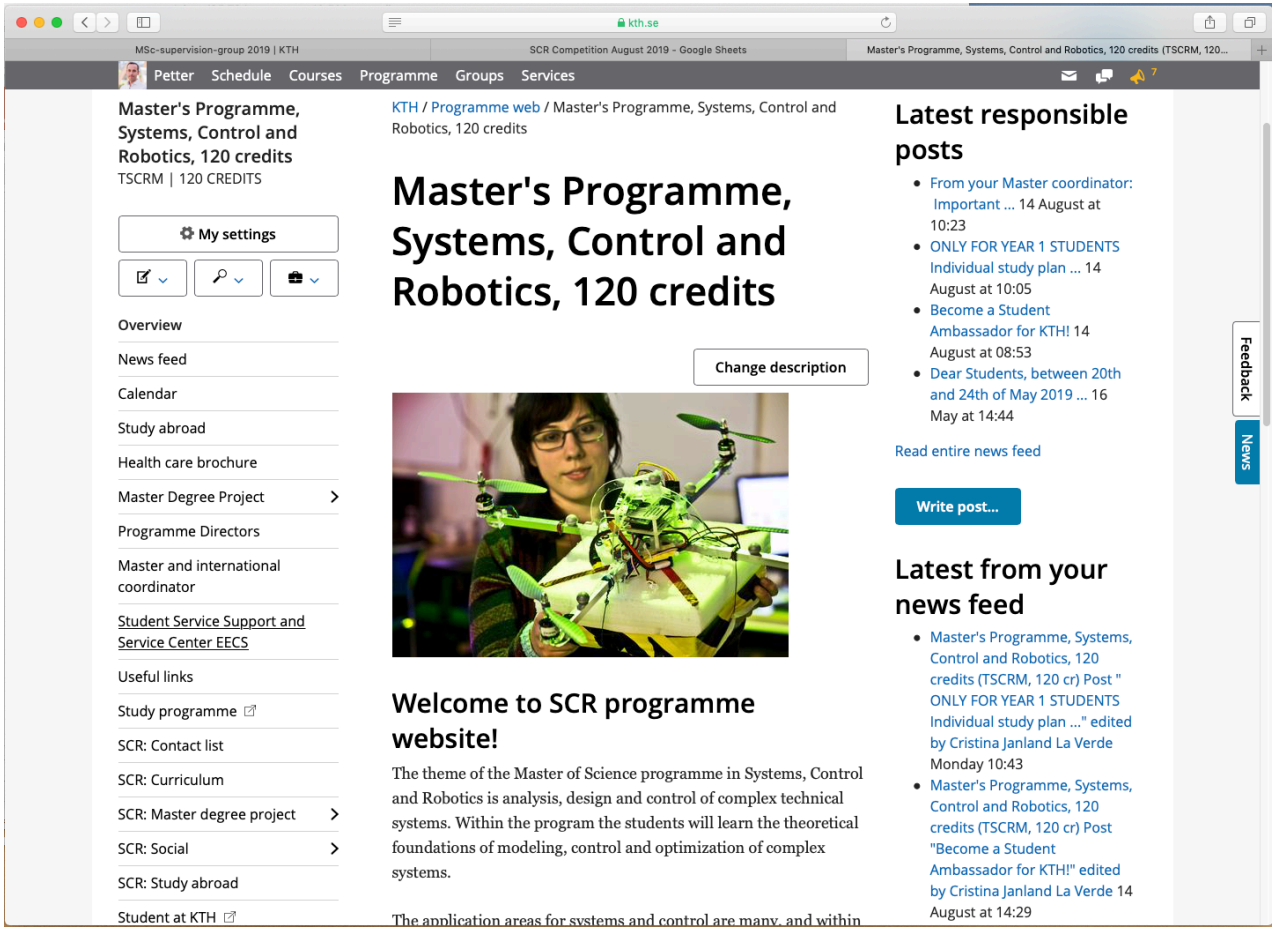
# Track: Electrical Energy Systems (Example)

| Course ID | Name | When | Credits | Type |
|---|---|---|---|---|
| EL2220 | The Sustainable Systems and Control Engineer | Y1-Y2 | 3 | Mandatory |
| **Year 1** | | | | |
| EL2820 | Modelling of Dynamical Systems | P1 | 7,5 | Mandatory |
| EJ2301 | Power Electronics | P1-P2 | 6 | Conditionally Elective |
| EG2100 | Power System Analysis | P1-P2 | 6 | Track Mandatory |
| EH2741 | Communication and Control in Electric Power Systems | P1-P2 | 6 | Conditionally Elective |
| EL2620 | Nonlinear Control | P2 | 7,5 | Conditionally Elective |
| EL2450 | Hybrid and Embedded Control Systems | P3 | 7,5 | Track Mandatory |
| EG2110 | Power System Stability and Control | P3 | 7,5 | Conditionally Elective |
| EH2745 | Computer Applications in Power Systems | P4 | 4,5 | Conditionally Elective |
| EL2520 | Control Theory and Practice, adv. | P4 | 7,5 | Mandatory |
| **Year 2** | | | | |
| AK2036 | Theory and Methodology of Science | P1 | 7,5 | Mandatory |
| DD2410 | Introduction to Robotics | P1 | 7,5 | Mandatory |
| EL2425 | Automatic Control Project Course, Smaller Course | P2 | 7,5 | Conditionally Elective (and Project Course) |
| XXYYYY | Non-Technical Course | P2 | 6 | Mandatory |
| XXYYYY | Master Thesis | P3-P4 | 30 | Mandatory |

# Track: Networked Control Systems (Example)

| Course ID | Name | When | Credits | Type |
|---|---|---|---|---|
| EL2220 | The Sustainable Systems and Control Engineer | Y1-Y2 | 3 | Mandatory |
| **Year 1** | | | | |
| EL2820 | Modelling of Dynamical Systems | P1 | 7,5 | Mandatory |
| DD2410 | Introduction to Robotics | P1 | 7,5 | Mandatory |
| EL2320 | Applied Estimation | P2 | 7,5 | Conditionally Elective |
| SF1811 | Optimization | P2 | 6 | Recommended |
| EL2450 | Hybrid and Embedded control Systems | P3 | 7,5 | Track Mandatory |
| EP2200 | Queuing Theory and Teletraffic Systems | P3 | 7,5 | Conditionally Elective |
| DD2424 | Deep Learning in Data Science | P4 | 7,5 | Conditionally Elective |
| EL2520 | Control Theory and Practice, adv. | P4 | 7,5 | Mandatory |
| **Year 2** | | | | |
| AK2036 | Theory and Methodology of Science | P1 | 7,5 | Mandatory |
| EL2745 | Principles of Wireless Sensor Networks | P1 | 7,5 | Track Mandatory |
| XXYYYY | Non-Technical Course | P2 | 7,5 | Mandatory |
| EL2425 | Automatic Control Project Course, Smaller Course | P2 | 7,5 | Conditionally Elective (and Project Course) |
| XXYYYY | Master Thesis | P3-P4 | 30 | Mandatory |

# More details on courses on website



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# Academic year at KTH

Today

First Exams

| | Week | Mo | Tu | We | Th | Fr | Sa | Su |
|---|---|---|---|---|---|---|---|---|
| Aug | 33 | I/re | I/re | I/re | I/re | I/re | I/re | 18 aug |
| | 34 | I/re | I/re | I/re | I/re | I/re | I/re | 25 aug |
| | 35 | 1 | 1 | 1 | 1 | 1 | S | 01 sep |
| Sep | 36 | 1 | 1 | 1 | 1 | 1 | S | 08 sep |
| | 37 | 1 | 1 | 1 | 1 | 1 | S | 15 sep |
| | 38 | 1 | 1 | 1 | 1 | 1 | S | 22 sep |
| | 39 | 1 | 1 | 1 | 1 | 1 | S | 29 sep |
| Oct | 40 | 1 | 1 | 1 | 1 | 1 | S | 6 oct |
| | 41 | 1 | 1 | 1 | 1 | 1 | S | 13 oct |
| | 42 | O | O | O | O | E | E | 20 oct |
| | 43 | E | E | E | E | E | S | 27 oct |
| | 44 | 2 | 2 | 2 | 2 | 2 | H | 03 nov |
| Nov | 45 | 2 | 2 | 2 | 2 | 2 | S | 10 nov |
| | 46 | 2 | 2 | 2 | 2 | 2 | S | 17 nov |
| | 47 | 2 | 2 | 2 | 2 | 2 | S | 24 nov |
| | 48 | 2 | 2 | 2 | 2 | 2 | S | 01 dec |
| Dec | 49 | 2 | 2 | 2 | 2 | 2 | S | 08 dec |
| | 50 | 2 | 2 | 2 | 2 | 2 | S | 15 dec |
| | 51 | O/RE | O/RE | O/RE | O/RE | O | S | 22 dec |
| | 52 | O | S | H | H | O | S | 29 dec |
| Jan | 1 | O | S | H | O | O | S | 05 jan |
| | 2 | H | E | E | E | E | E | 12 jan |

| | Week | Mo | Tu | We | Th | Fr | Sa | Su |
|---|---|---|---|---|---|---|---|---|
| | 3 | E | E | 3 | 3 | 3 | S | 19 jan |
| | 4 | 3 | 3 | 3 | 3 | 3 | S | 26 jan |
| | 5 | 3 | 3 | 3 | 3 | 3 | S | 02 feb |
| Feb | 6 | 3 | 3 | 3 | 3 | 3 | S | 09 feb |
| | 7 | 3 | 3 | 3 | 3 | 3 | S | 16 feb |
| | 8 | 3 | 3 | 3 | 3 | 3 | S | 23 feb |
| | 9 | 3 | 3 | 3 | 3 | 3 | S | 01 mar |
| Mar | 10 | 3 | 3 | O | O | O | E | 08 mar |
| | 11 | E | E | E | E | E | E | 15 mar |
| | 12 | 4 | 4 | 4 | 4 | 4 | S | 22 mar |
| | 13 | 4 | 4 | 4 | 4 | 4 | S | 29 mar |
| Apr | 14 | 4 | 4 | 4 | 4 | 4 | S | 05 apr |
| | 15 | 4 | 4 | 4 | 4 | H | S | 12 apr |
| | 16 | H | O/RE | O/RE | O/RE | O/RE | S | 19 apr |
| | 17 | 4 | 4 | 4 | 4 | 4 | S | 26 apr |
| | 18 | 4 | 4 | 4 | 4 | H | S | 3 may |
| May | 19 | 4 | 4 | 4 | 4 | 4 | S | 10 may |
| | 20 | 4 | 4 | 4 | 4 | 4 | S | 17 may |
| | 21 | 4 | O | O | H | O | S | 24 may |
| | 22 | E | E | E | E | E | E | 31 may |
| Jun | 23 | E | O/RE | O/RE | O/RE | O/RE | H | 07 jun |

| | |
|---|---|
| I | Introductory weeks |
| H | National Holiday |
| S | Exam and tuition free day |
| 1-4 | Scheduled day within study period |
| E | Examinations |
| RE | Re-examinations |
| O | Own work |

# Academic year with periods

**Year divided into 2 semesters**
Autumn semester (“HT”)
Spring semester (“VT”)

**Each semester has 2 periods/quarters**
Periods 1 + 2 = Autumn semester
Periods 3 + 4 = Spring semester

**Each period about 8-9 weeks**
7-8 for studies + 1 week for exams

**Most courses only run one period**
Lots of new material in short time. Need to be alert all the time!

# Requirements for Degree

Your Responsibility

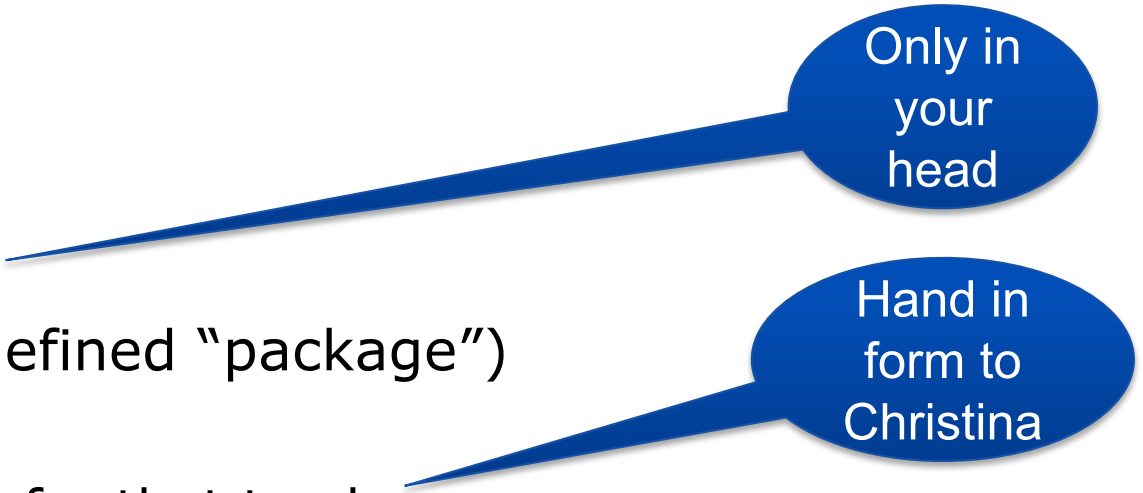
The students must have completed

- all of the **mandatory courses** depending on track
- at **least 3 conditionally elective** technical courses depending on the chosen track
- one or two elective **non-technical** courses
- one **project course** in the subject area
- other **recommended** courses for a total of 90 higher education credits
- **degree project** of 30 higher education credits.

# Course selection

- Step 1
  - Choose track
  - (Track = predefined “package”)
- Step 2
  - Select courses for that track
- Can I Change Track?
  - Yes

- Important: After 2 years, **your courses must** satisfy requirements of at least 1 track



# Course selection

Remember that some courses have **limited number of places** and then registering is especially important.

Note that some courses only run **every second** year (accelerated graduate program)

**Course selection**

For Autumn term 2019: when you log in into your personal menu you will see the courses you have been admitted to. If you want to modify this course selection you will need to submit a Study Plan form (web form). You have to list *ALL* the courses you intend to take during period 1 and 2. *Latest on the 27th of August* your coordinator needs to have back your study plan form, if this is the case.

From Spring term 2020 on, you will select your courses online. There are two course selection periods, **1-15 November for the Spring term and 1-15 May for the Fall term**. You sign up for the courses online at www.universityadmission.se. Each term, before the course selection period, you will receive an email from your coordinator, with all needed information, as a reminder.

# Understanding the course code

The courses have codes like EL2520 or DD2380

The first character tells what area, second what department/group

- E = Electrical engineering (EL = control)
- D = Computer science etc. (DD = computer science)

The first digit tells what level it is

- 1 – basic (“bachelor”)
- **2 – advanced (“master”)**
- 3 – doctoral (“phd”)

# Note on AK2036 (Theory of science...)

You can take it either the first or the second **year**. Pick the one that fits you best.

For many tracks it **makes sense to take it the second year,** see track examples!

Also possible to take in any other period but some elements will be more adapted to other programs then.

# What Courses do I Choose?

- Fun
- Needed in Track
- makes Combined Schedule reasonable
- Is a prerequisite for future course

# Practical approach to courses

1. Check out 4 example choices of the tracks (https://www.kth.se/social/program/tscrm/page/scr-curriculum/)
2. Pick one track
3. Look though all conditionally elective and recommended courses
4. Try to swap IN the ones you like and REMOVE ones you do not like

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| EL2450 | Hybrid and Embedded Control Sys. | P3 | 7,5 | Conditionally elective |
| DD2421 | Machine Learning | P3 | 7,5 | Conditionally elective |
| EL2520 | Control Theory and Practice, adv. | P4 | 7,5 | Mandatory |
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| AK2036 | Theory and Methodology of Science | P1 | 7,5 | Mandatory |
| DD2380 | Artificial Intelligence | P1 | 6 | Conditionally elective |
| XXYYYY | Non-Technical Course | P2 | 6-7.5 | Mandatory |
| DD2434 | Machine Learning, Adv. Course | P2 | 7,5 | Recommended |
| XXYYYY | Master Thesis | P3-P4 | 30 | Mandatory |

You can change these

and these

# Stick to the curriculum

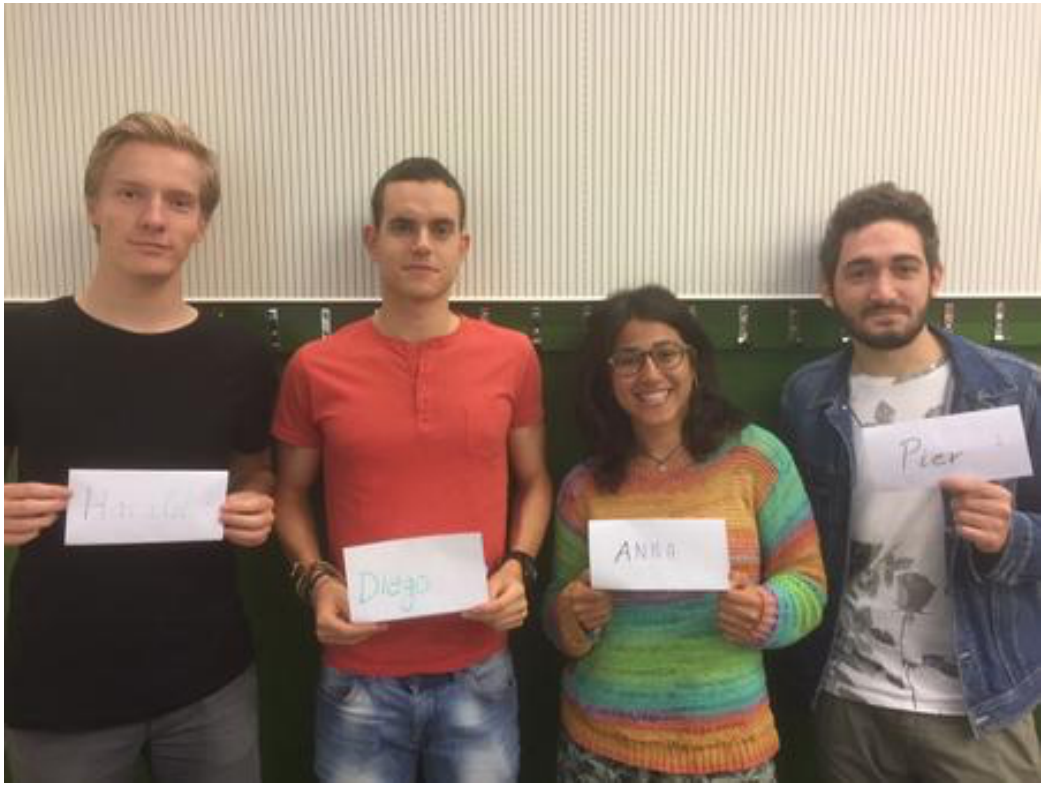
If you go outside please ask me first

Prio1: Make sure that you finish the mandatory courses.

KTH restrictive on taking extra courses

# Have you finished writing your nametag?

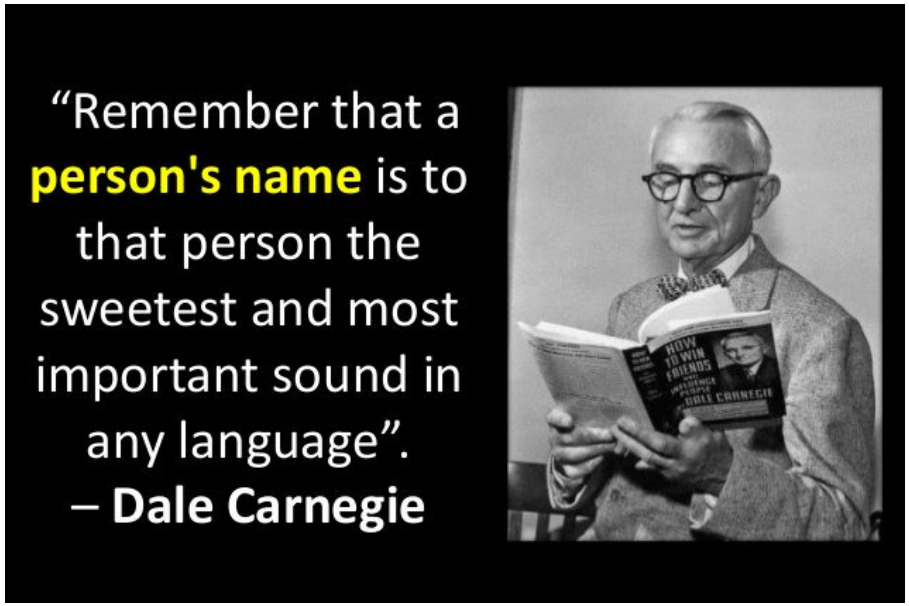
- Find the people in your Team (next slide)
- Make someone take a group picture of you with your name tags showing
- Email the picture to petter@kth.se (will be posted online)
- → photo catalogue



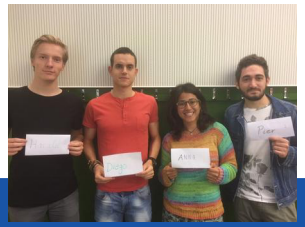
# Teams and Rooms for Challenge

| **Room E34** | | | **Room E35** | | | **Room E36** | |
|---|---|---|---|---|---|---|---|
| **Team 1:** | | | **Team 5:** | | | **Team 9:** | |
| YANG | SHAOHUI | | HUMNE | ANKITA ARUN | | QIAO | ZIHAN |
| ALLAN | MAURA | | MOLINARI | MARCO | | SARMIENTO GONZÁLEZ | LUIS ALEJANDRO |
| Lavebratt | Bill | | BALARAM | SARADA | | ELVARSDÓTTIR | HÓLMFRÍÐUR |
| Lin | Valentine | | Modahl | Ylva | | Hirsch | Daniel |
| Marstorp | Gustav | | Nordén | Frans | | Skoglund | Caroline |
| Ranjith | Adam | | Persson | Frida | | Larsson Forsberg | Albin |
| **Team 2:** | | | **Team 6:** | | | **Team 10:** | |
| CHITTEPU | YASWANTH | | ZHANG | WANZHI | | RUSTAMOV | JEYHUN |
| ZHANG | SHUBO | | DE LIMA | OSCAR | | JANSSON | MADELEINE |
| Gustavsson | Oscar | | GUHA | ROUMEN | | MARIOCORDIANO | FRANCESCO |
| Hemlin | Karl | | Stadler | Karsten | | Bonnevie | Rodrigue |
| Hestell | Filip | | Steinholtz | Tim | | Bui | Linda |
| Svensson | Olle | | Svensson | Niclas | | Corfitsen | Christian |
| **Team 3:** | | | **Team 7:** | | | **Team 11:** | |
| ALIYEV | TURAL | | SAMPATH KUMAR | VARUN KUMAR | | SHI | HAOXIANG |
| NGUYEN | DINH VINH THANH | | MUHAMMAD ILYAS | MUHAMMAD ZAHID | | MAHAJAN | AKANSHU |
| YING | ZAOSHI | | Ahmadi | Seyedhesam | | GHIGNONE | EDOARDO |
| Erlandsson | Oskar | | Al-Janabi | Mustafa Ahmed Taha | | Corneliussen | Ilian |
| Ghasemi | Hashem | | Yap | Martti Lefika | | Edlund | Joar |
| Greinsmark | Vidar | | Vikgren | Mattias | | Eriksson | Andreas |
| **Team 4:** | | | **Team 8:** | | | **Team 12:** | |
| KUMAR | MOHIT | | VAZEERUDDIN | MOHAMMED ANAS | | MAMBELLI | DAVIDE |
| COBLE | KYLE WILLIAM | | SOUROULLA | TIMOTHEOS | | SADASHIV | ARAVIND |
| DESHMUKH | SAVYARAJ RAVINDRA | | VALLONE | ANDREA | | SYAMIL | ABI RAHMAN |
| Melki | Jakob | | Landin | Roman | | Alkas Alias | Kildo |
| Miksits | Adam | | Wilczek | Andrej Markus | | Andersson | John |
| Mirzai | Badi | | von Reis Marlevi | Filip | | Bahmani | Mehrdad |

# The Power of Names







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# Master thesis

Typically started in the 3rd quarter of the second year

Need 60 credits in completed courses at least **to start**

This is where you **put everything you learned to use**

**Where**? in industry, at a KTH department or
at other technical university or research institute

Your responsibility **to find one**

Need a **supervisor and examiner at KTH** and a local supervisor if you are outside KTH.

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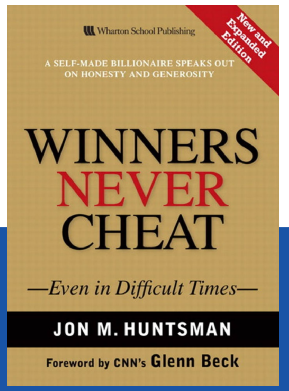
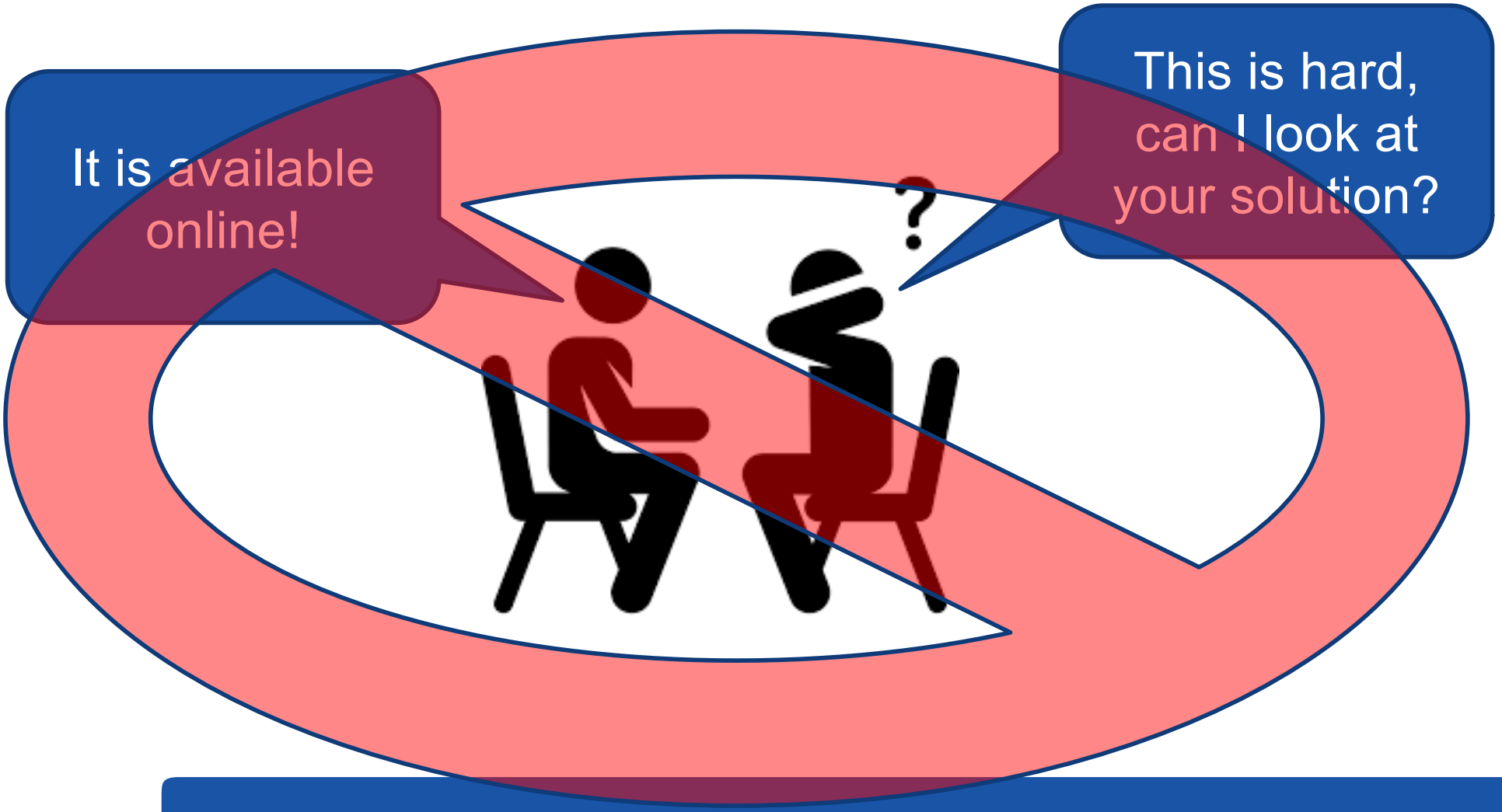
# Reading/writing and Plagarism

- Technical reading and writing skills very important
- **Word by word copying is a big NO-NO**
- **Use your own words or use quotes and references.**
- **Do not share your solutions with others**
- It might not be explicitly stated but these rules are assumed
- If you are caught you will be reported and **can get suspended**

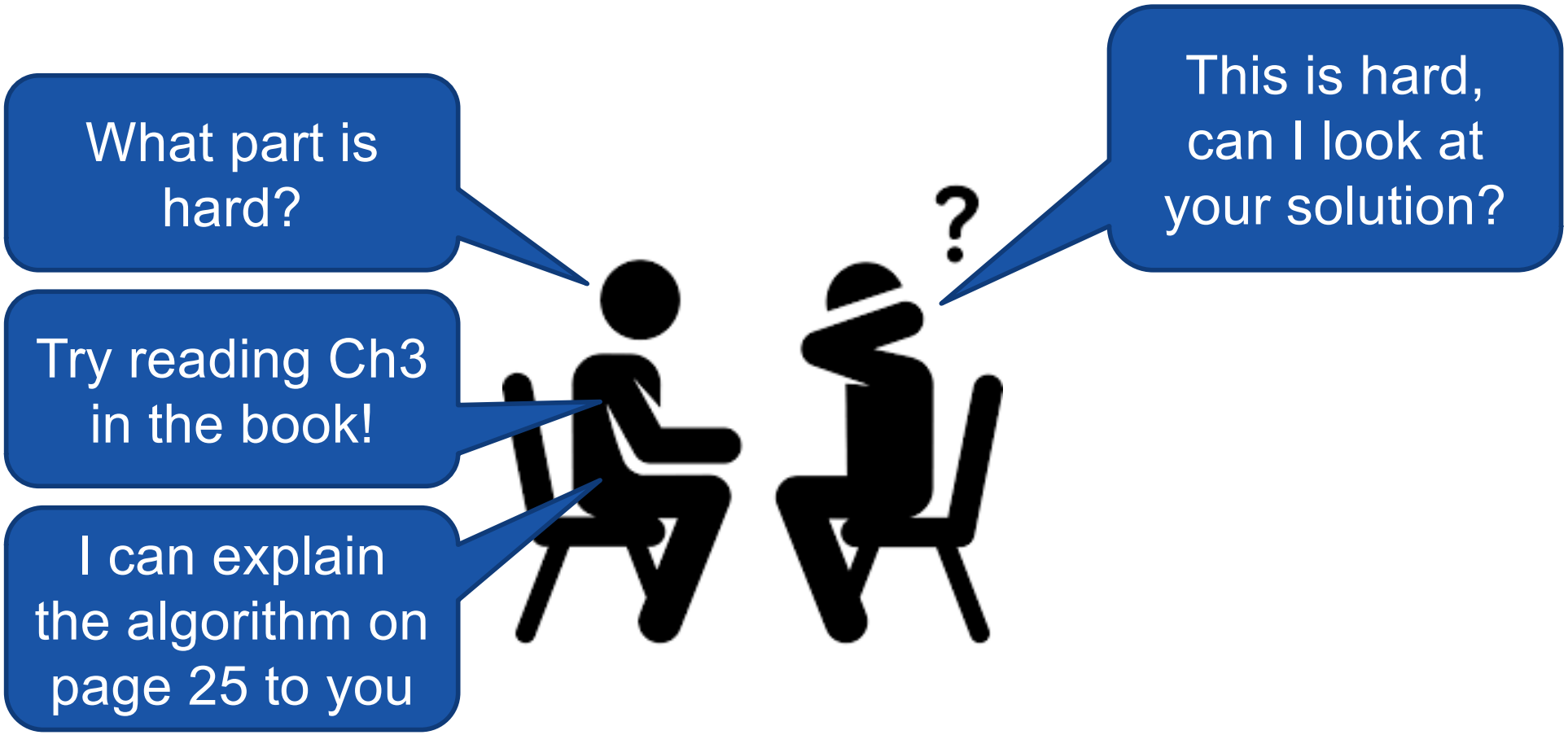


# Word by word copying for a report (No!)

# Sharing solutions with others (No!)



# Sharing understanding with others (Yes!)



# Code of Honour

- When studying at this level you will be given a lot of freedom.
- With freedom comes responsibility
- Think about this when working on homework assignments, projects, etc

- EECS Code of Honor
  - https://www.kth.se/en/eecs/utbildning/hederskodex/inledning-1.17237

# Rules in Code of Honour

Rule 1: All members of a group are responsible for the group's work

Rule 2: In any assessment, every student shall honestly disclose any help received and sources used

Regulation 3: In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution

Rule 4: Do not copy from other people's solutions

Rule 5: Handle attendance lists correctly

Rule 6: Give help in the right way

# Grading

Grades A (excellent) – E (lowest passing grade)
Grade Fx means you can get to E by some extra task(s)
Goal oriented and absolute grading system at KTH (and not relative grades)

- All can fail, **All can get an A**

It is **not ECTS** but looks similar

Passing is often around 50% of the max score
The full grading scale is used
Failing an exam is not a total failure;
re-exams are allowed

# Going abroad

If you go abroad you can swap courses at KTH for courses in the other university. This way you do not have to “lose time” toward the degree.

It is mandatory to talk to the director/coordinator **before** going abroad to work out a curriculum.

All courses in the curriculum can be exchanged for courses in other universities but the requirements for the match are higher for compulsory courses.

# Rules and values at KTH (my interpretation)

- Creativity and critical thinking a good quality
- Active participation instead of always silently listening
- Being able to work in groups
- Social skills and being able to present your ideas to others
- **Show us what you have learned using your own words**
- **Process often more important than product**
- **Quality and not quantity**
- Hard work itself is not a guarantee for a passing or getting a good grade

# Teacher student relation

- Ask for help if you need it.
- Teacher unlikely to see that you need help and will not want to intrude
- Can ask the teacher questions, he/she is not a untouchable semi-god
- Organize study groups etc on your own (no copying)
- A teacher is often very busy and the lecture, seminar, exercise, etc is the time to ask the questions. Otherwise make appointment
- A teacher is not your father or mother, mostly a “business” relation

# Why do they keep referring to me as an “undergraduate student”???

At KTH

- Undergraduate = Bachelor + Master
- Graduate = PhD

# Reading email

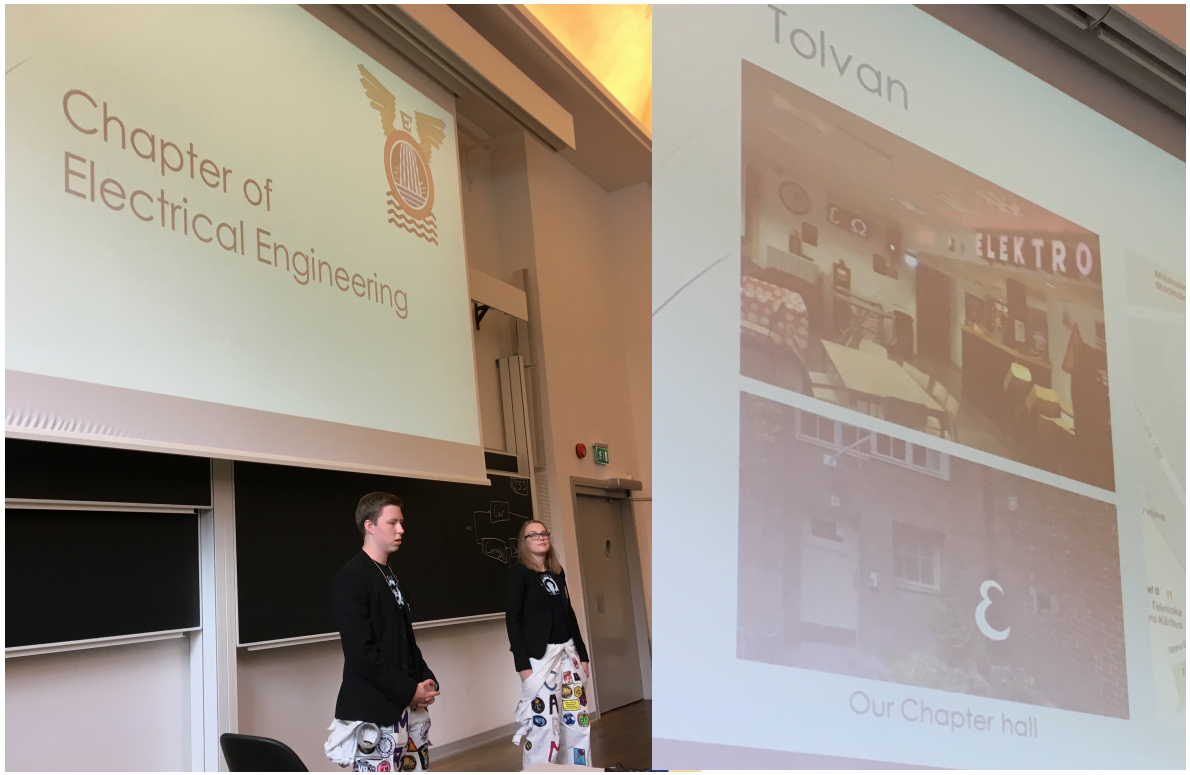
- People will **expect you to read your email**
  - **Check** your kth.se-address, or
  - **Forward it**

# Electrical Engineering Student Chapter at KTH

- Sports
- Boardgames
- Parties

- Facebook: EMiTGlobal
- axelol@kth.se

- Excellent opportunity to get into Swedish student life!



# Did I tell you all you need to know?

NO!

If you want good answers to your questions ask the right person

- Other students: How are things done in practice
  - Swedish students at SCR
  - EE Student Chapter
- Teachers: specifics about a course
- Cristina: Admin, course selection, etc
- Petter: Curriculum, program wide Q's
- Track responsibles: Track stuff
- ...
- (contract info on Program website)

# Welcome meeting 22 August 2019

- Reminder of Important dates
- Who is who
- Program overview
- Courses
  - Academic year with periods
  - Curriculum and requirements
  - Course selection
- Thesis Project work
- Mixed Information
  - Plagiarism, Grading ...
- **SCR team-challenge 2019**

# BSc Program Welcoming at KTH

# Questions?

- Reminder of Important dates
- Who is who
- Program overview
- Courses
  - Academic year with periods
  - Curriculum and requirements
  - Course selection
- Thesis Project work
- Mixed Information
  - Plagiarism, Grading ...
- SCR team-challenge 2019

# Teams and Rooms for Challenge

| **Room E34** | | | **Room E35** | | | **Room E36** | |
|---|---|---|---|---|---|---|---|
| **Team 1:** | | | **Team 5:** | | | **Team 9:** | |
| YANG | SHAOHUI | | HUMNE | ANKITA ARUN | | QIAO | ZIHAN |
| ALLAN | MAURA | | MOLINARI | MARCO | | SARMIENTO GONZÁLEZ | LUIS ALEJANDRO |
| Lavebratt | Bill | | BALARAM | SARADA | | ELVARSDÓTTIR | HÓLMFRÍÐUR |
| Lin | Valentine | | Modahl | Ylva | | Hirsch | Daniel |
| Marstorp | Gustav | | Nordén | Frans | | Skoglund | Caroline |
| Ranjith | Adam | | Persson | Frida | | Larsson Forsberg | Albin |
| **Team 2:** | | | **Team 6:** | | | **Team 10:** | |
| CHITTEPU | YASWANTH | | ZHANG | WANZHI | | RUSTAMOV | JEYHUN |
| ZHANG | SHUBO | | DE LIMA | OSCAR | | JANSSON | MADELEINE |
| Gustavsson | Oscar | | GUHA | ROUMEN | | MARIOCORDIANO | FRANCESCO |
| Hemlin | Karl | | Stadler | Karsten | | Bonnevie | Rodrigue |
| Hestell | Filip | | Steinholtz | Tim | | Bui | Linda |
| Svensson | Olle | | Svensson | Niclas | | Corfitsen | Christian |
| **Team 3:** | | | **Team 7:** | | | **Team 11:** | |
| ALIYEV | TURAL | | SAMPATH KUMAR | VARUN KUMAR | | SHI | HAOXIANG |
| NGUYEN | DINH VINH THANH | | MUHAMMAD ILYAS | MUHAMMAD ZAHID | | MAHAJAN | AKANSHU |
| YING | ZAOSHI | | Ahmadi | Seyedhesam | | GHIGNONE | EDOARDO |
| Erlandsson | Oskar | | Al-Janabi | Mustafa Ahmed Taha | | Corneliussen | Ilian |
| Ghasemi | Hashem | | Yap | Martti Lefika | | Edlund | Joar |
| Greinsmark | Vidar | | Vikgren | Mattias | | Eriksson | Andreas |
| **Team 4:** | | | **Team 8:** | | | **Team 12:** | |
| KUMAR | MOHIT | | VAZEERUDDIN | MOHAMMED ANAS | | MAMBELLI | DAVIDE |
| COBLE | KYLE WILLIAM | | SOUROULLA | TIMOTHEOS | | SADASHIV | ARAVIND |
| DESHMUKH | SAVYARAJ RAVINDRA | | VALLONE | ANDREA | | SYAMIL | ABI RAHMAN |
| Melki | Jakob | | Landin | Roman | | Alkas Alias | Kildo |
| Miksits | Adam | | Wilczek | Andrej Markus | | Andersson | John |
| Mirzai | Badi | | von Reis Marlevi | Filip | | Bahmani | Mehrdad |