HOW TO LEARN USING ISC ENVIRONMENT

Spring 2019

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Learning environment : http://isc.ttu.ee
Materials : http://isc.ttu.ee/martin

About course and learning

- Course uses isc system:

ISC.TTU.EE

- Online e-learning environment
  - Everything will be done there – online
  - Can be accessed everywhere
  - Automatic evaluation (no teacher intervention)

  100% web- based :
  - Internet is full of materials
  - Work in internet
  - communication in internet

  - ***This doses not exclude talking, asking, ..***

Assessment

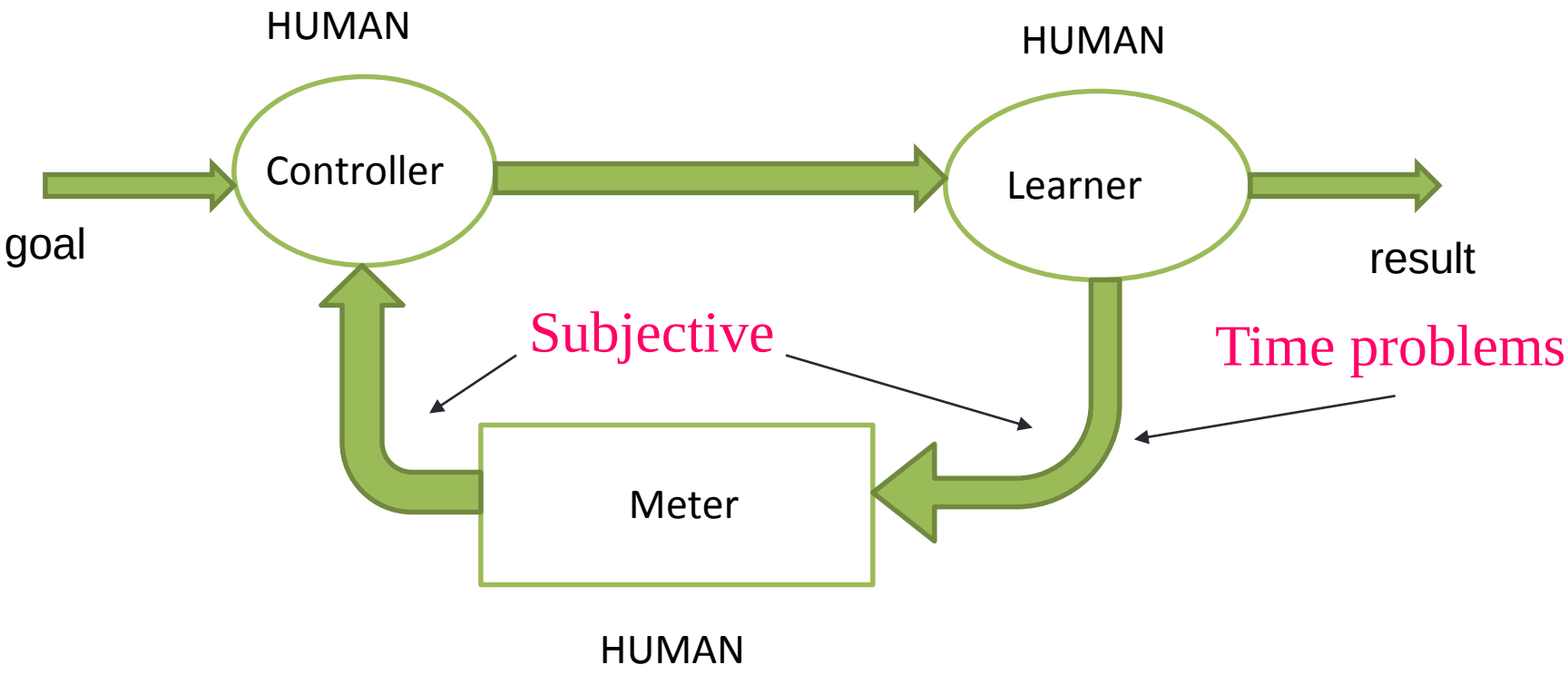
- No official final exam:
  - Grade will be earned over the semester
  - Student him/herself decides what grade to take (more later)
- Tasks & lab experiments
  - Task are small exercises that can be done anywhere
  - Lab experiments will need lab kit (can be borrowed or can be used on-site lab)
  - What we measure, that we get (Proverb of automation people).
  - I hear- I forget, I see- i can remember, I do – I understand (Confucius)
  - **The main goal – just to become smarter !**
  - **Subject ends at 23. January 2019 .**

Lectures

- Only first 4 week
  - „Learn by doing“
  - So, instead sitting in lectures, register to lab and start solving exercises.
  - I do not speak fluent Engilsh , as well as you. Much information will be lost !
  - The effectiveness of lecture is quite small.
  - You are different !!! (Skills, background, needs, motivation.)
  - We do’nt know your background !

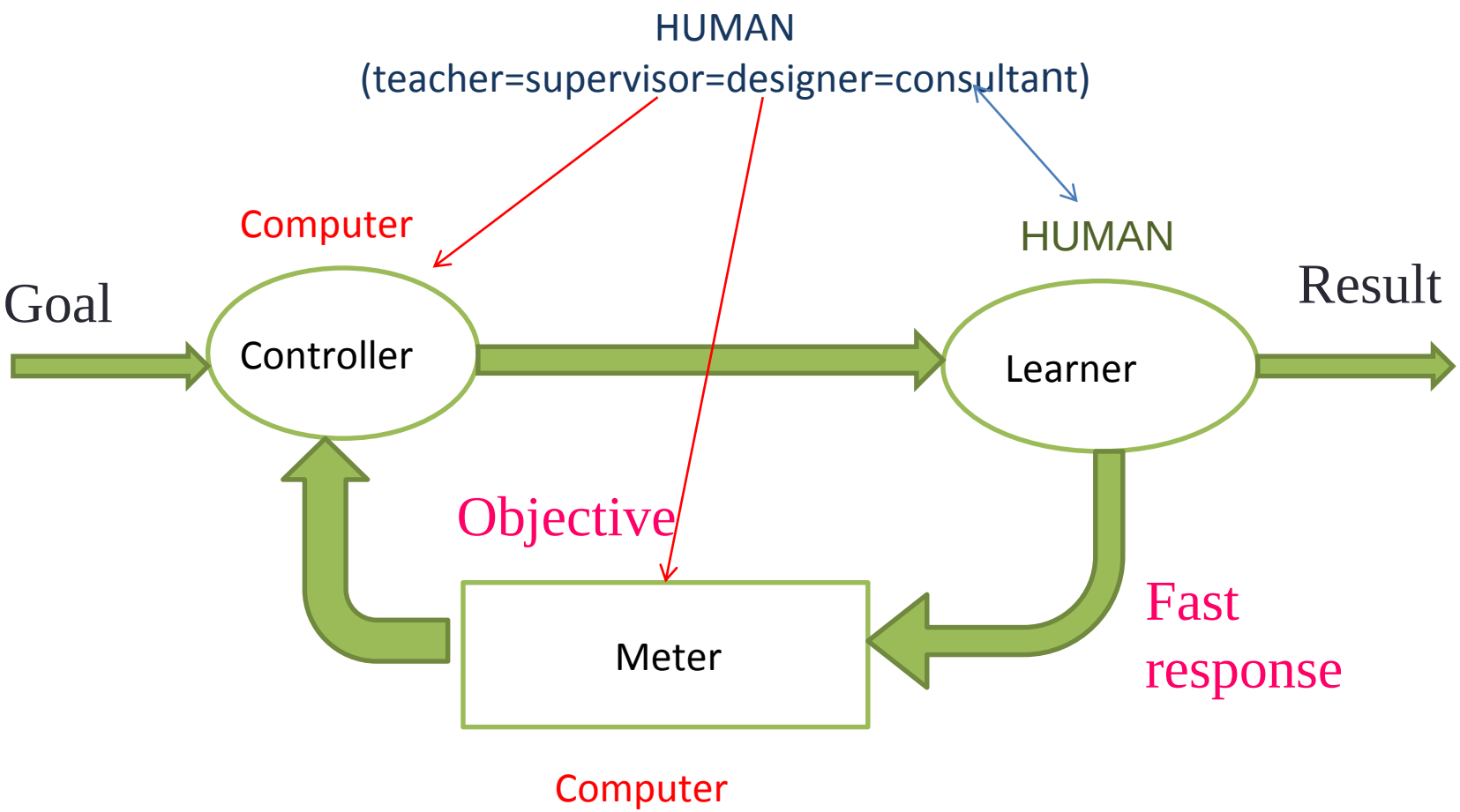
  - If wou want to listen very good lecure about electronics
  - http://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-002-circuits-and-electronics-spring-2007/

Learning as Closed Loop System



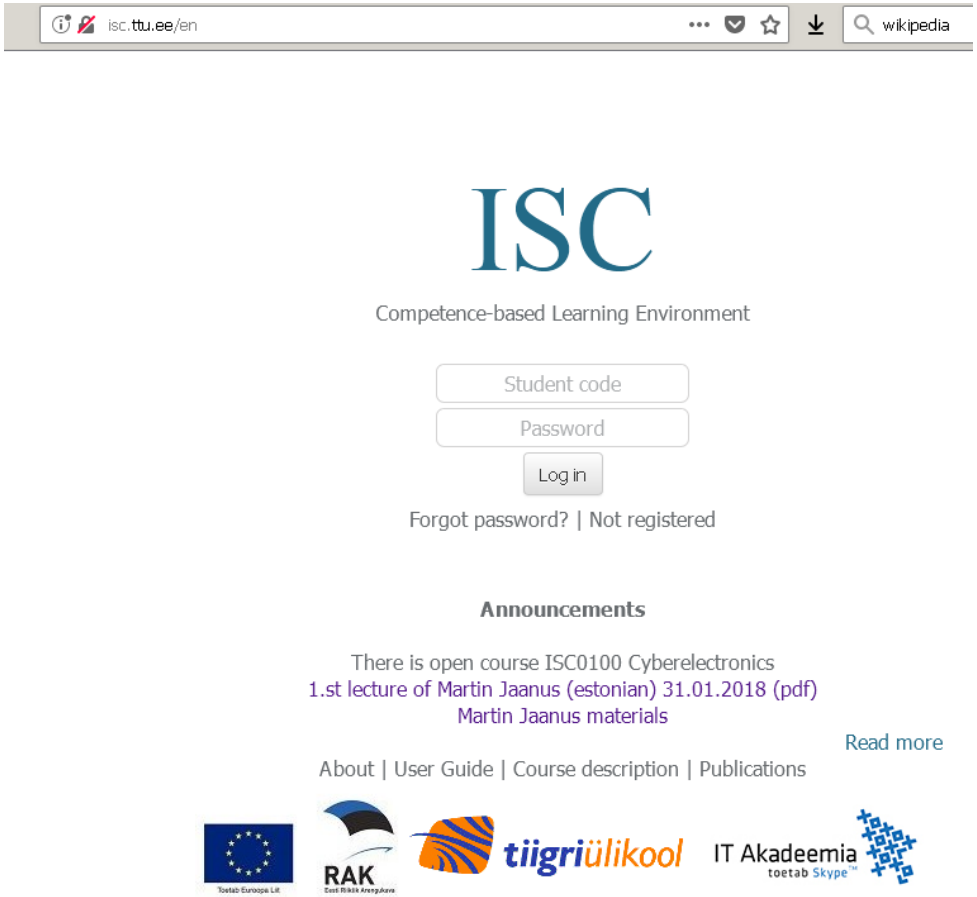
- E-tools only for organization

Learning as Closed Loop System

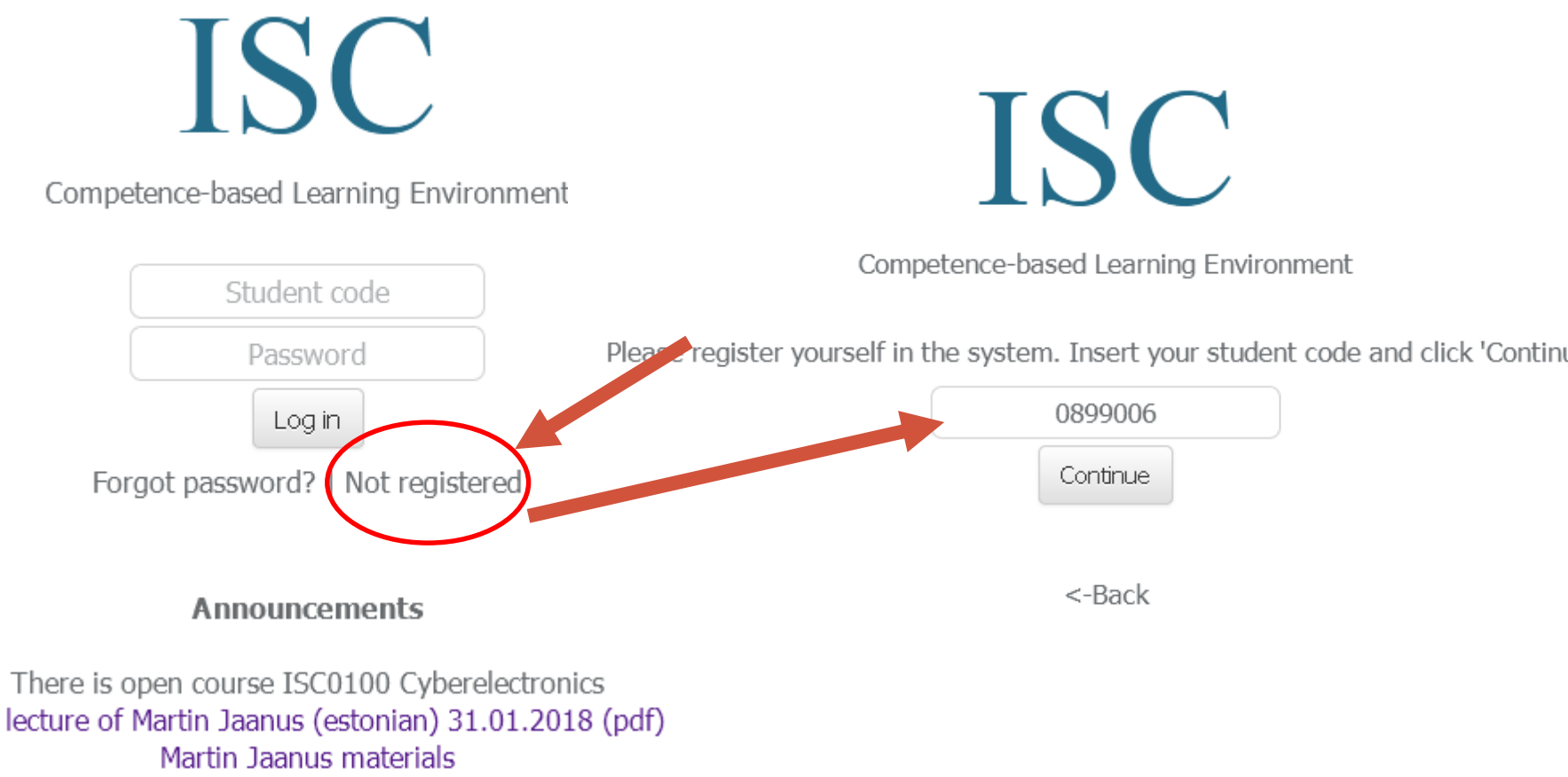


Learning environment

- http://isc.ttu.ee



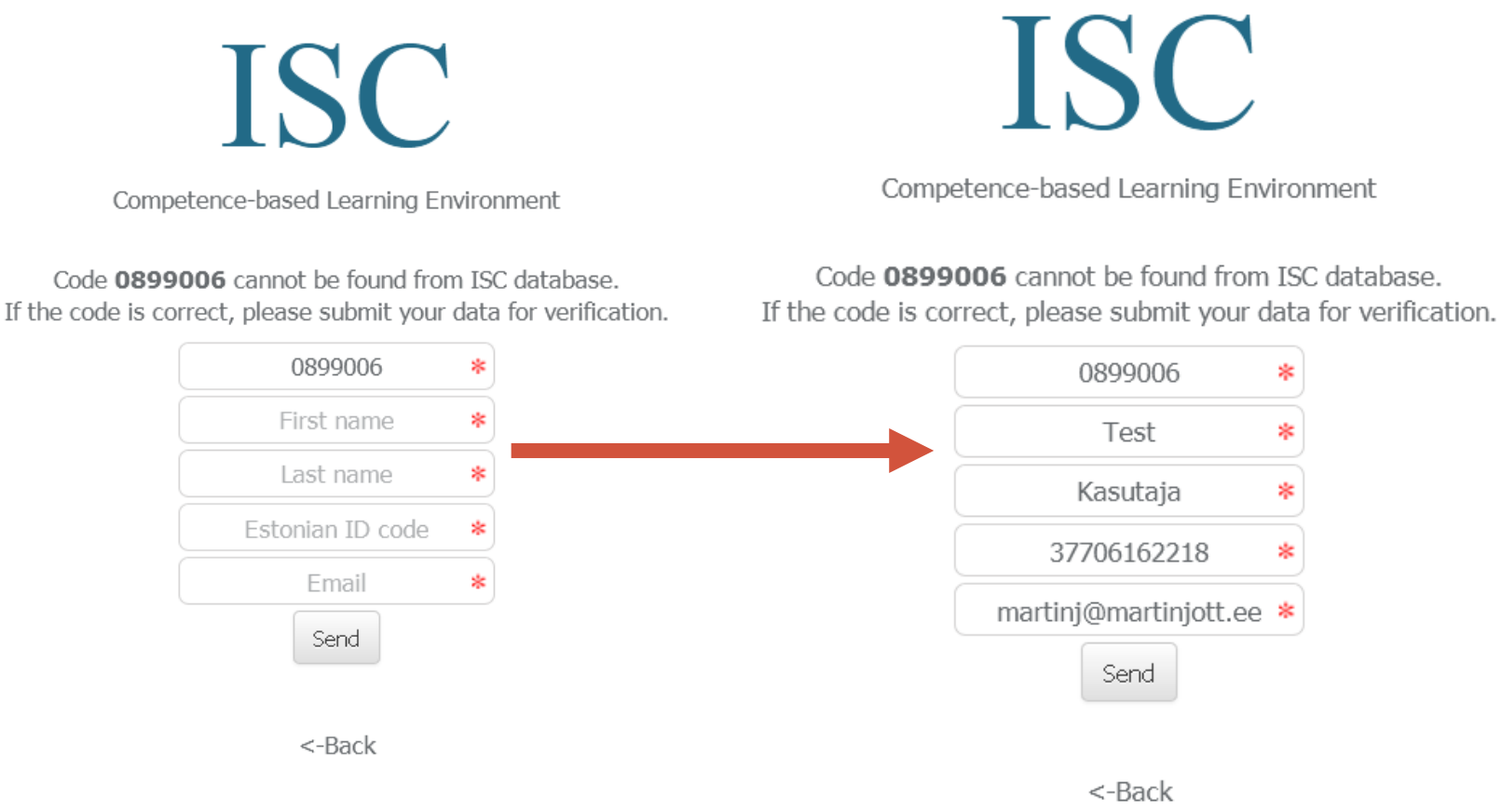
If you haven't registered before:



If you haven’t registered before:

...and you are not in database

Fill those fields carefullv !!!



If you haven’t registered before:

ISC

Competence-based Learning Environment

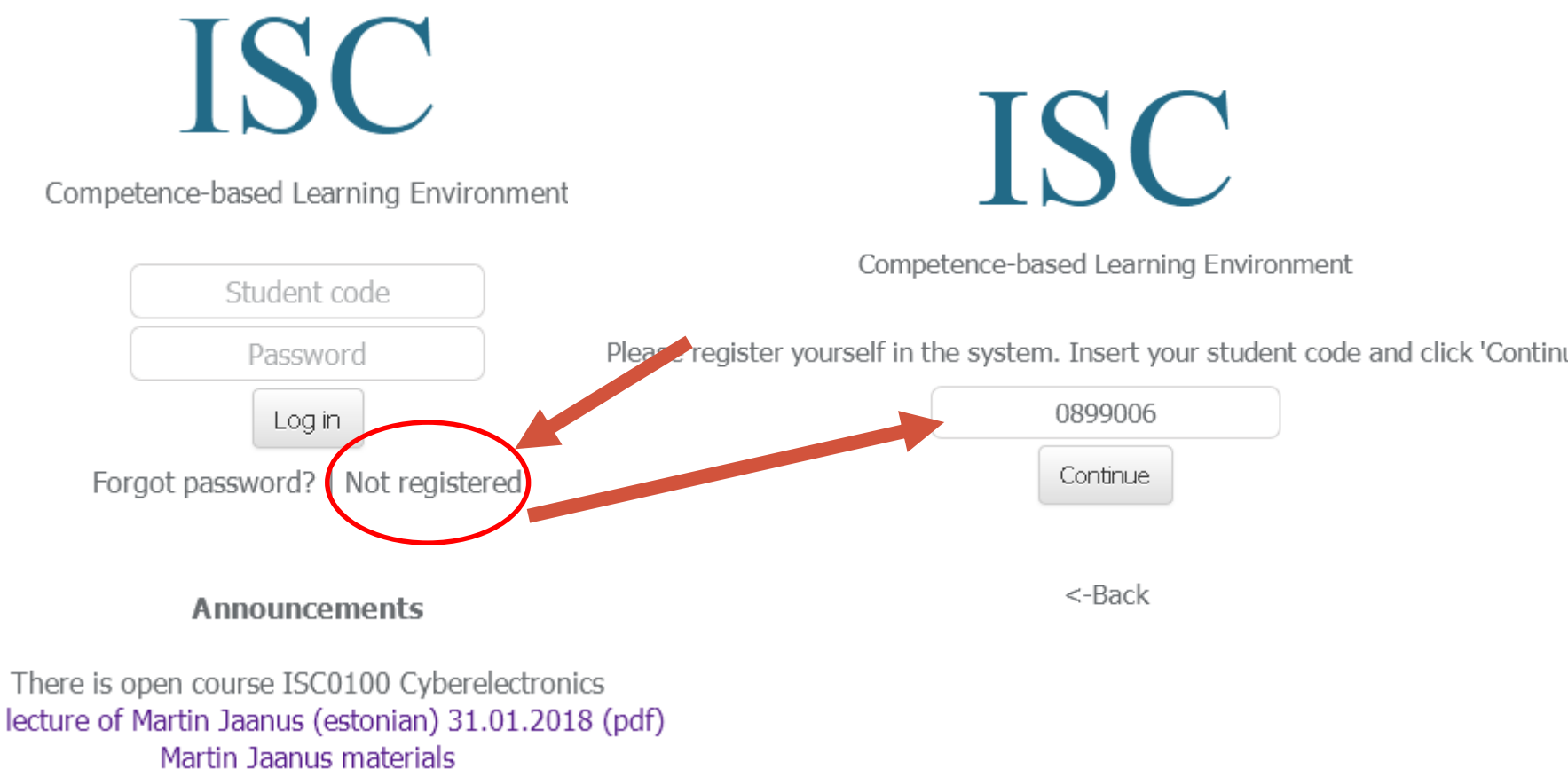
Data has been saved. You will be contacted when Your data has been verified.

<-Back

- Teacher must confirm you data. And you will get mail like this.

If you haven’t registered before:

- If you have teacher response



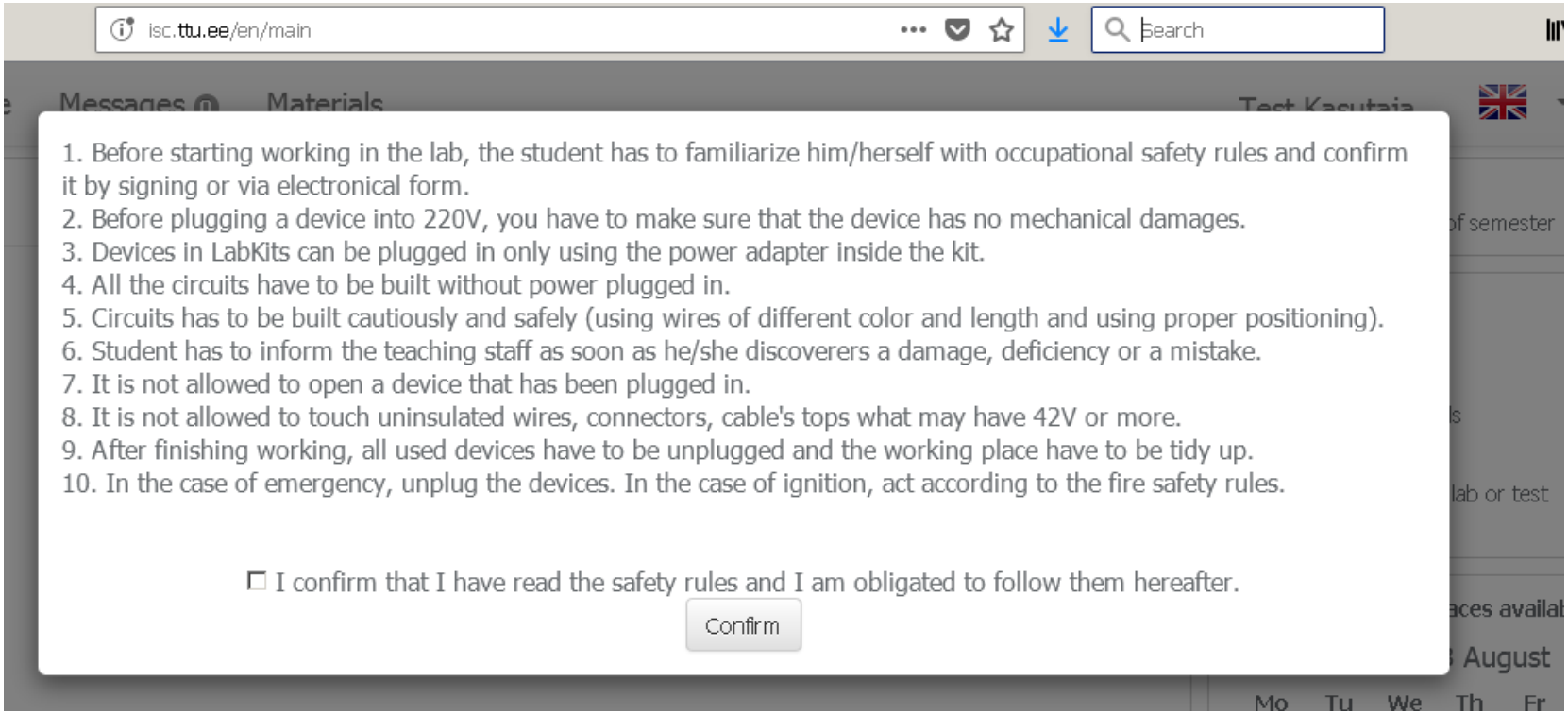
If you haven't registered before:

If you haven’t registered before:

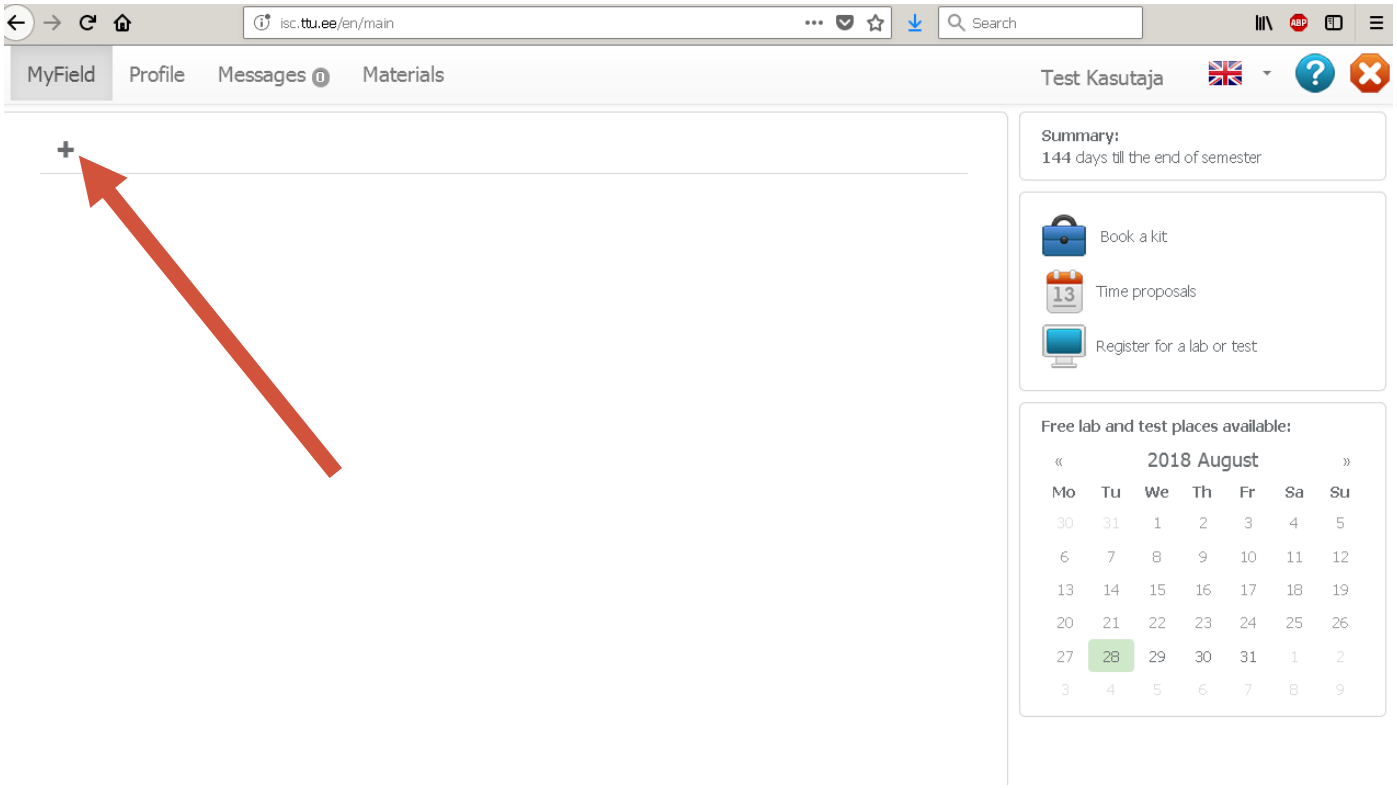
- You will get a password ! Remember it !
- The password can’t be changed.
- If you forget the password, ask us !

If you haven’t registered before:

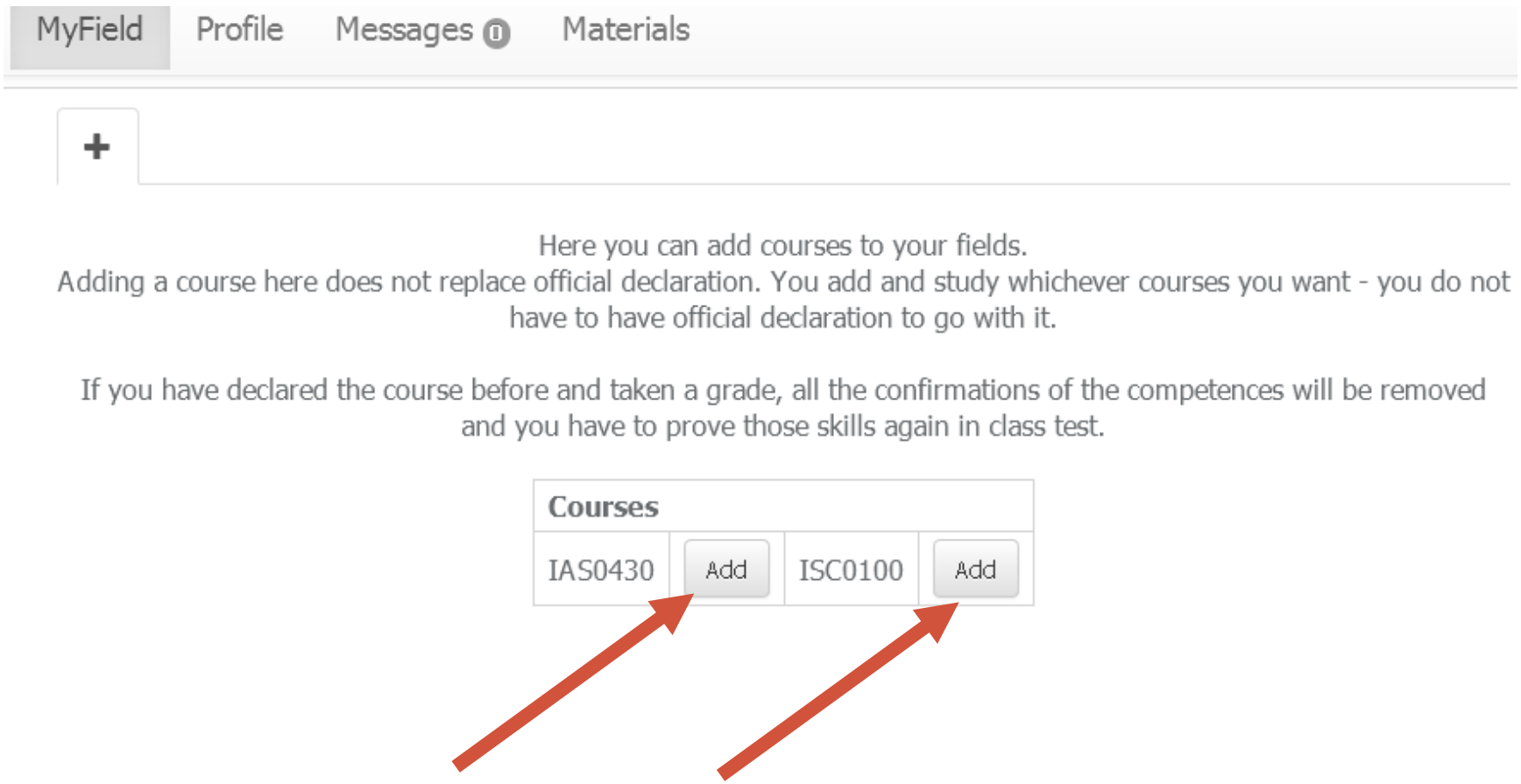
- You must agree..



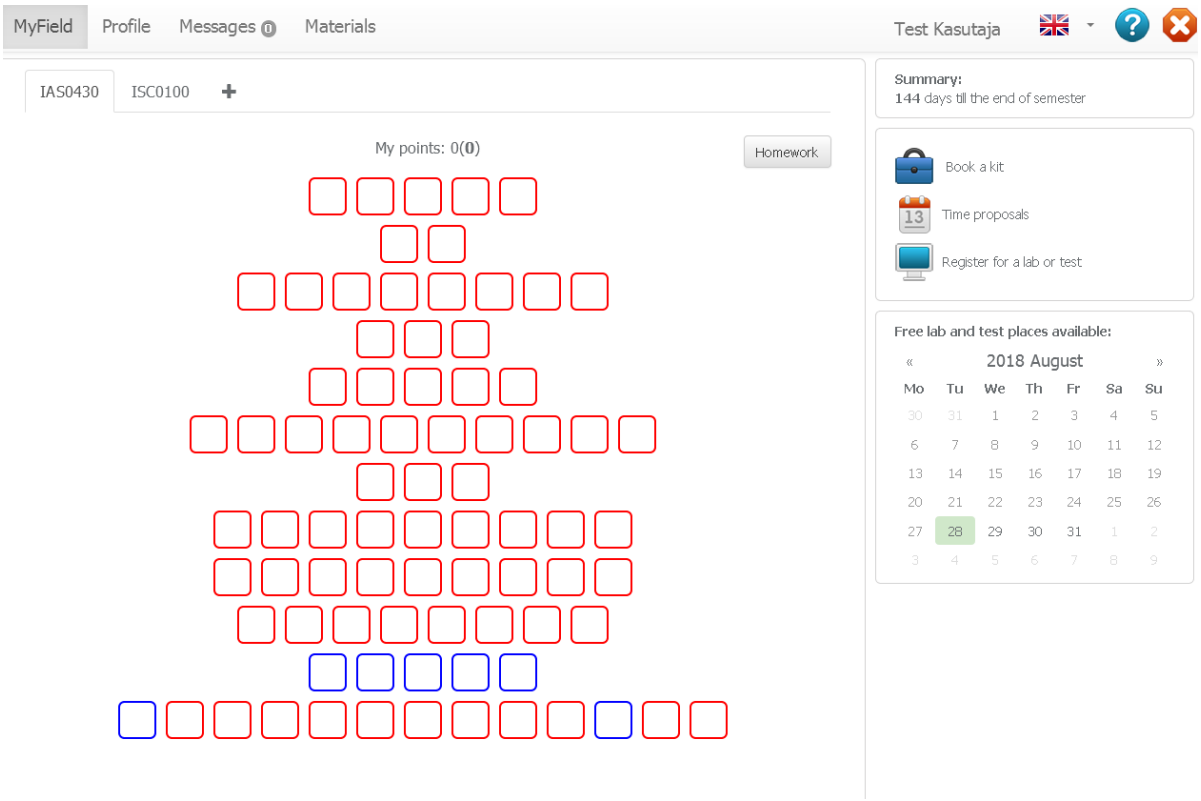
Adding new course



Adding new course



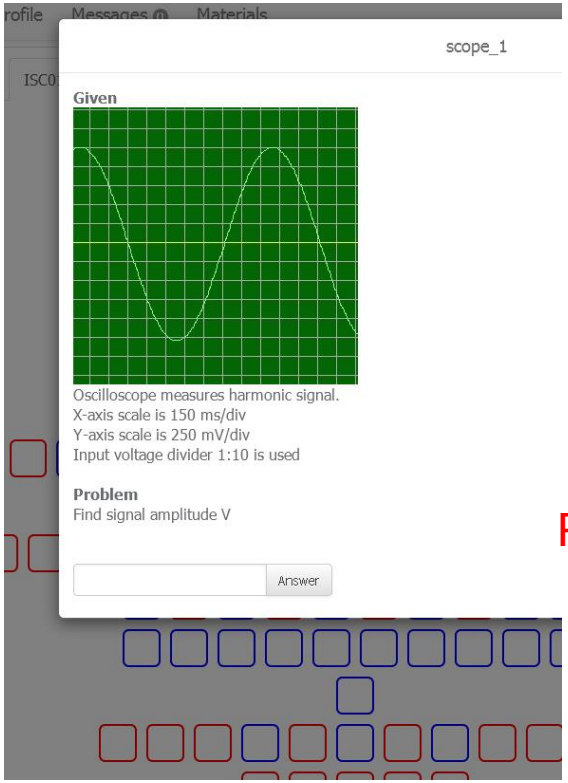
Done !



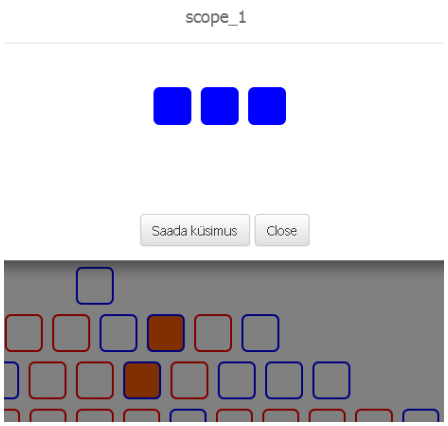
How to learn using this environment can be found here:
http://isc.ttu.ee/en/userGuide

Learning environment

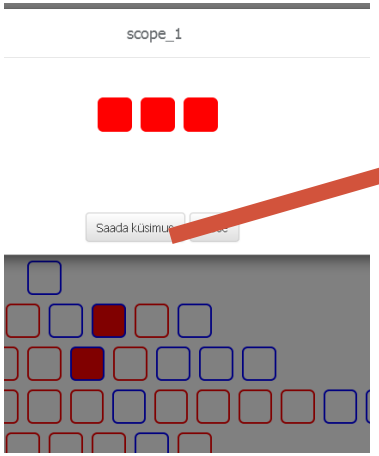
- Tasks



Result OK



Result NOT OK



Question to teacher about task.

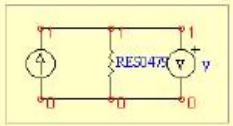
Learning Environment (labs)

Katse CS145

Pinge mõõtmine ja mõõteviga

Seadmed: vooluallikas, resistor RES0479, multimeeter DMM M830 ning multimeetri kasutusjuhend.

	Tulemus	Ühik
Mõõtepiirkond	20	V
Mõõta pinge V	4.2	V
Arvutada mõõteviga ±	48	mV



Pinget mõõdetakse **voltmeetriga**. Selleks ühendatakse voltmeeter ahelasse **rööbiti**. Valida tuleb optimaalne mõõtepiirkond ehk see, kus mõõteriista näit on suurim , kuid ei ületa skaala maksimumväärtust.
Tester näitab V klemmi pinget COM klemmi suhtes.

Result by components:

Lab tasks are included in Class Test !

Lab times

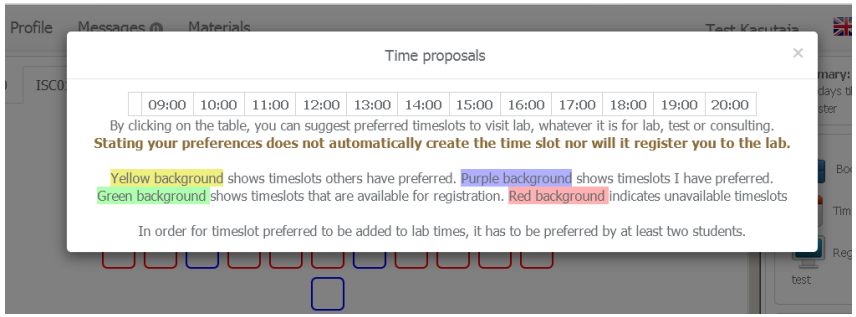
- On-site labs will consist of you working with a labkit on laboratory. There is someone there to help you with all the questions you have

- You can start with few sessions on the lab and then do experiments home with borrowed HomeLabKit

Before you can borrow HomeLabKit, you have to go for a lab once

Labs

You can use time proposial.



Class tests

- You work on your own and on lab until you have got the competences high (level over 77 of 127).
- If you have more than 1000 mCu, you can register for class test and come to lab to to class test.
- Same kind of exercises than before – you just have to do it in „controlled“ environment to prove you did it yourself
- All points have to be confirmed this way.
- Those points count towards your grade
- Class tests include lab tasks (not programming tasks) !

Grade taking

- You can take your grade whenever you want – when you have the points, take the grade and you are done. You do not have to wait till the end of semester