### HOW TO LEARN USING ISC ENVIRONMENT

Spring 2019

 Martin Jaanus
 U02-308

 martin.jaanus@ttu.ee
 620 2110, 56 91 31 93

Learning environment : <u>http://isc.ttu.ee</u> Materials : <u>http://isc.ttu.ee/martin</u>

#### 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, ..

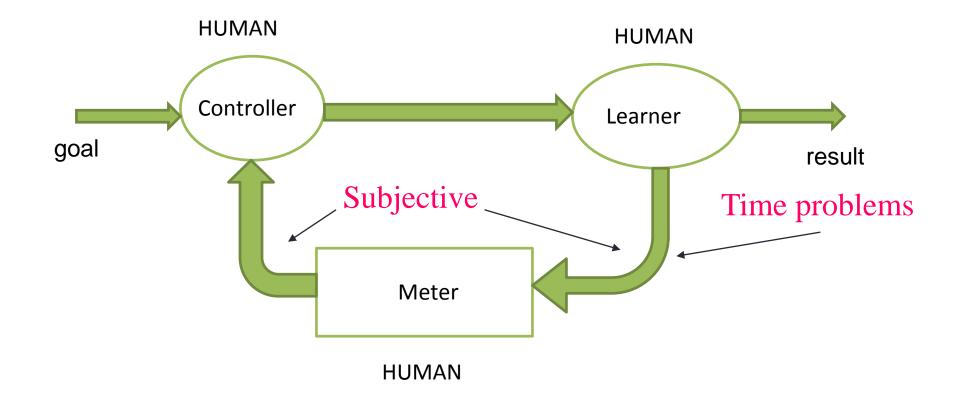
#### Assessment

- 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

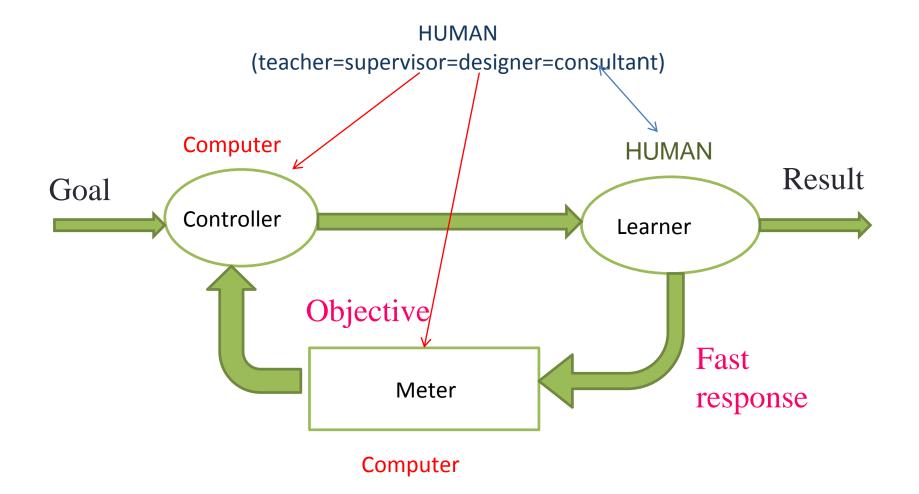
- Only first 4 week
  - "Learn by doing"
  - So, instead sitting in lectures, register to lab and start solving exercises.
  - I do not speak fluent Engilsh, as well as you. Much information will be lost !
  - The effectiveness of lecture is quite small.
  - You are different !!! (Skills, background, needs, motivation.)
  - We do'nt know your background !
  - If wou want to listen very good lecure about electronics
  - <u>http://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-002-circuits-and-electronics-spring-2007/</u>

#### Learning as Closed Loop System



E-tools only for organization

#### Learning as Closed Loop System



#### Learning environment

http://isc.ttu.ee

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#### ISC

Competence-based Learning Environment

Student code	
Password	
Log in	

Forgot password? | Not registered

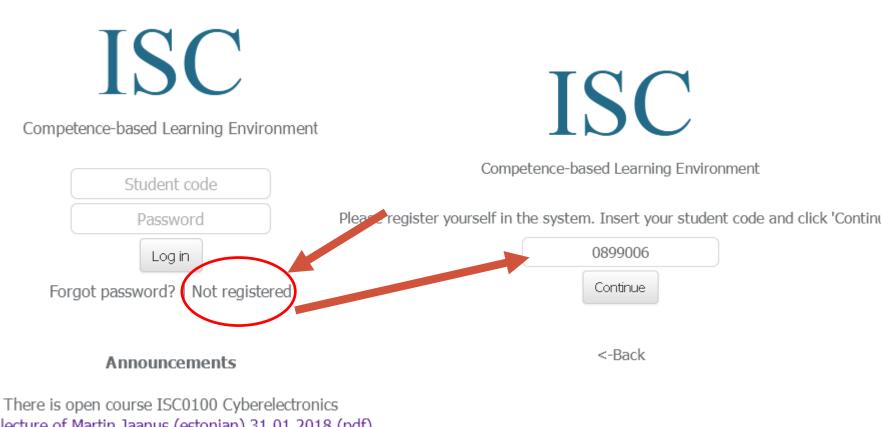
#### Announcements

There is open course ISC0100 Cyberelectronics 1.st lecture of Martin Jaanus (estonian) 31.01.2018 (pdf) Martin Jaanus materials

Read more

About | User Guide | Course description | Publications





lecture of Martin Jaanus (estonian) 31.01.2018 (pdf) Martin Jaanus materials

...and you are not in database Fill those fields carefully !!!

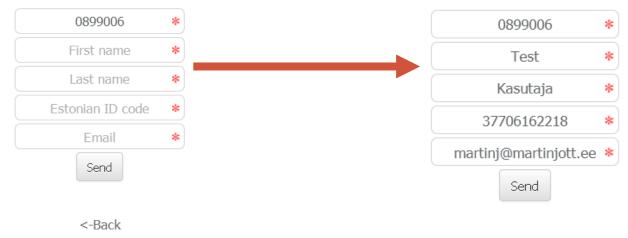
ISC

Competence-based Learning Environment



Competence-based Learning Environment

Code **0899006** cannot be found from ISC database. If the code is correct, please submit your data for verification. Code **0899006** cannot be found from ISC database. If the code is correct, please submit your data for verification.



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 have teacher response



lecture of Martin Jaanus (estonian) 31.01.2018 (pdf) Martin Jaanus materials

Competence-based Learning Environment

Please select your name from the list:

A-G	H-O	P-T	U-Y
Ago	Heinar	Raigo	Uku
Anni	Heivi	Rain	Uku-Rasmus
Antonina	Helmet	Rami	Ülar
Anu	Iivika	Raner	Ülari
Are	Irene	Ready	Uljana
Brita	Iris	Rebekka	Ullabritt
Cariina	Jaan	Ruben	Ülle
Carl Christian	Kristi-Jana	SandeepJaganna	Ülo
Carol	Leila	Sepo	Ulvi
Cleelia	Lemme	Tago	Urho
Eerika	Maritta	Taire	Urmas
Emmanuel Ovie	Maxim	Tauri	Urmo
Ene	Muhammad Qais	Terje	Ursula
Eric	Nikolay	Terttu	Urvika
Eva	Oluwadare Isaac	Test	Uzochukwu Eddi
	Cont	inue	

ISC

Competence-based Learning Environment

Please add the additional information:



If you cannot find your first name from the list, please contact the teaching staff.

The name spellings are taken from university database. In case of errors, please contact the teaching

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

## ISC

Competence-based Learning Environment

Registration done!

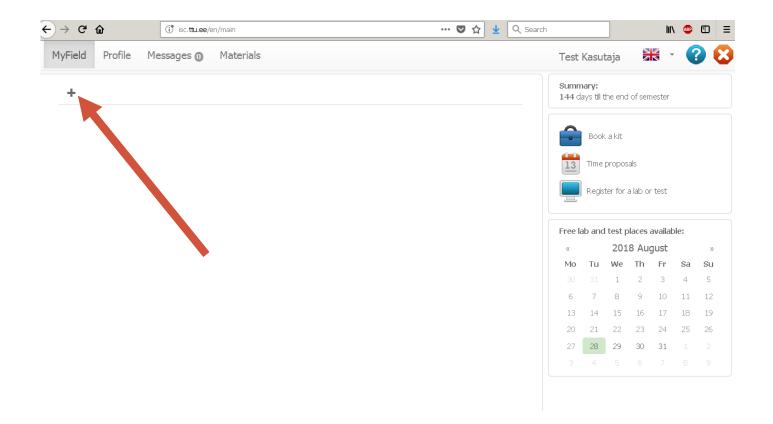
From now on, you can log into system using following passwords:



#### • You must agree..

🗊 isc. <b>ttu.ee</b> /en/main 🚥 💟 🕁 🔍 þearch	<b>III</b>
Messages n Materials Test Kasu	taia
1. Before starting working in the lab, the student has to familiarize him/herself with occupational safety rules and confit by signing or via electronical form.	ìrm
<ol> <li>Before plugging a device into 220V, you have to make sure that the device has no mechanical damages.</li> <li>Devices in LabKits can be plugged in only using the power adapter inside the kit.</li> </ol>	of semester
<ol> <li>All the circuits have to be built without power plugged in.</li> <li>Circuits has to be built cautiously and safely (using wires of different color and length and using proper positioning)</li> </ol>	)
<ul> <li>6. Student has to inform the teaching staff as soon as he/she discoverers a damage, deficiency or a mistake.</li> <li>7. It is not allowed to open a device that has been plugged in.</li> </ul>	/-
<ol> <li>8. It is not allowed to touch uninsulated wires, connectors, cable's tops what may have 42V or more.</li> <li>9. After finishing working, all used devices have to be unplugged and the working place have to be tidy up.</li> </ol>	ls
10. In the case of emergency, unplug the devices. In the case of ignition, act according to the fire safety rules.	lab or test
🗖 I confirm that I have used the origin, unlessed I are ablighted to follow them have from	
□ I confirm that I have read the safety rules and I am obligated to follow them hereafter.	aces availat
Mo Tu	August

#### Adding new course



### Adding new course

MyField Profile Messages 
Materials

Here you can add courses to your fields.

Adding a course here does not replace official declaration. You add and study whichever courses you want - you do not have to have official declaration to go with it.

If you have declared the course before and taken a grade, all the confirmations of the competences will be removed and you have to prove those skills again in class test.

Courses			
IAS0430	Add	ISC0100	Add

#### Done!

1yField Pr	ofile Messages 🕦 Mater	ials		Test	Kasu	taja				3 6
IAS0430	ISC0100 +			Summary: 144 days till the end of semester						
	_	My points: 0( <b>0</b> )	Homework		Book	a kit				
				13	Time	propos	als			
					Regis	ter for .	a lab or	test		
				Free lab and test places available:						
				« 2018 August Mo Tu We Th Fr §		Sa	» Su			
				30	31	1	2	3	4	5
				6	7	8	9	10	11	12
				13	14	15	16	17	18	19
				20	21	22	23	24	25	26
				27 3	28 4	29 5	<b>30</b> 6	31 7		

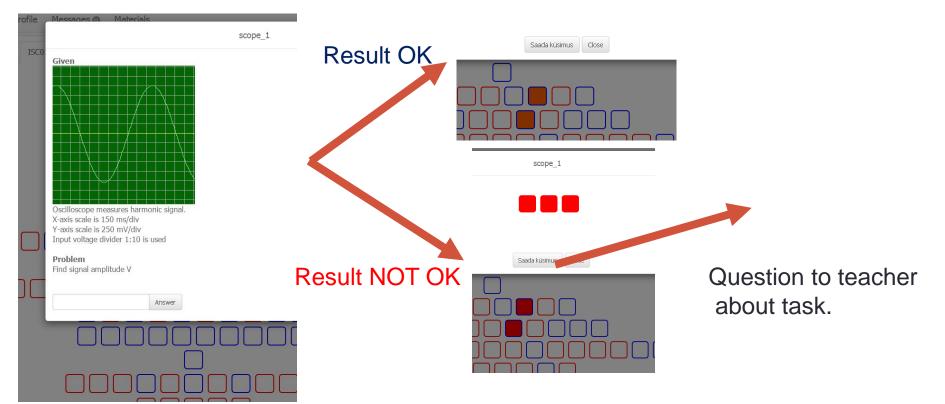
How to learn using this environment can be found here: http://isc.ttu.ee/en/userGuide

#### Learning environment

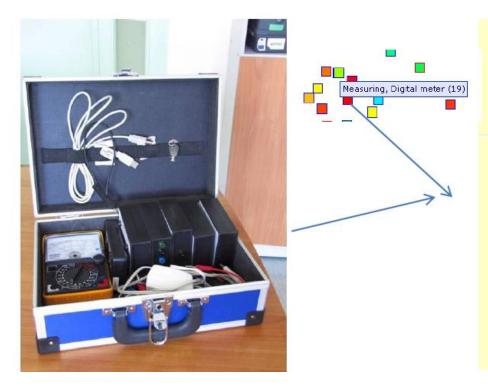
Tasks



scope\_1



#### Learning Environment (labs)



#### Katse CS145

Pinge mõõtmine ja mõõteviga

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

	Tulemus	Ühik
löötepiirkond	20	
lööta pinge V	4.2	
rvutada mõõteviga	± 48	mV

RE30479 V

Pinget möödetakse voltmeetriga. Selleks ühendatakse voltmeeter ahelasse rööbiti. Valida tuleb optimaalne möötepiirkond ehk see, kus mööteriista nait on suuriin, kuid ei ületa skaala maksimuunväärtust. 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

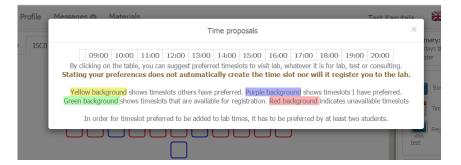
Before you can borrow HomeLabKit, you have to go for a lab once

#### 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

