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Development of practically-oriented student-centred education in the field of modelling of Cyber-Physical Systems – CybPhys

609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP
CybPhys Training School for students

Riga Technical University
12/1, Azenes Street Riga, Latvia
January 17th – 28th, 2022

Preparation session on Zoom:

Schedule	Activity	Responsible person
12 th of January at 15.00	New product development. Introduction. Home task for students before active session in Riga.	Prof Nadezhda Kuņicina

The training on site was hosted at the Institute of Industrial Electronics and Electrical Engineering, Faculty of Electrical and Environmental Engineering (EVIF) of RTU:

Schedule	Activity	Responsible person
Sunday 16th of January	Arrival in Riga	
Monday 17th of January 9.30 – 10.00 room 319	Registration, administrative procedures	Research Assistant Skaidrite Krivisa, Dr. Anatolijs Zabasta, Prof. Nadezhda Kuņicina, Prof Anastasija Žiravecka.
10.00 - 12.00	Overview schedule + main goals of mobility program Short campus tour. Laboratory demonstrations: solar energy, wind energy, fuel cells.	Head of laboratories Ansis Avotins, Kristaps Vitols
13.00 – 16.00, room 319, Lab. room 219.	Introduction to RTU. Introduction to new product development. Practices in student' laboratory	Prof Nadezhda Kunicina

Tuesday, January 18th 9.00 – 12.00 room 521	Prototype development. Practicum.	Prof Ilja Galkins, Head of laboratories Maksims Vorobjovs
13.00 – 16.00 room 521	Prototype development. Practicum.	Prof Ilja Galkins, Head of laboratories Maksims Vorobjovs
Wednesday January 19th 9.00 – 16.00 room 521	Prototype development. Practicum.	Prof Ilja Galkins, Dr Maksims Vorobjovs
13.00 – 16.00 room 521	Prototype development.	Prof Ilja Galkins, Head of laboratories Maksims Vorobjovs
Thursday January 20th 9.00 – 12.00 room 319 and laboratories	Solar energy, hydrogen energy research and labs	Prof Janis Zaķis, Dr Aleksands Suzdalenko, Dr Ingars Steks
13.00 – 15.00 room 319	Virtual laboratory – practical work	Prof A.Žiravecka
Friday January 21th 9.00 – 12.00 room 319 or in Lab	Practical work in 3D laboratory: modelling and printing	Dr Rihards Rieka
13.00 – 14.30 room 319.	Visit to the Scientific Library of RTU	Dr A. Zabašta
14.30 – 16.00 room 219	Independent work in a laboratory	
Week 2		
Monday January 24nd 9.00 – 12.00 room 319	Security of cyber-physical systems (practical and seminar-discussion)	Prof Rasa Bruzgiene, KTU
13.30 - 14.30 room 319	Scientific – on-line visit to one of the objects: Smart city Jelgava: Municipal Operational Information Centre (MOIC)	Gints Reinsons, MOIC Director; Dr A. Zabasta
14.30 – 16.00	Recent advances and topical problems on hybrid and battery electric vehicle technologies: current state, future scope and impact on the Latvian automotive sector	M.Eng. (TH) Arturs Bogdanovs
Tuesday January 25th 10.00 – 13.00 (to book a bus)	Cultural program: excursion on site - to Latvian Ethnographic Museum	Research Assistant Skaidrite Krivisa, Dr Andrey Bubovich
13.00 – 16.00 room 219	Independent work in laboratory	

Wednesday January 26th 9.00 – 12.00 room 319	Partner' lectures on new courses topics Battery storage Systems	Dr Volodymyr Sistuk, KNU PhD student Martins Bisenieks, RTU
13.00 – 16.00 room 319	Security of cyber-physical systems (practical and seminar-discussion)	Prof Rasa Bruzgiene, KTU
Thursday January 27th 9.00 – 12.00 room 319	Partner' lectures on new courses topics	Dr Hnatov Andrii, KhNAHU; Dr Volodymyr Kazymyr CPNU.
13.00 – 16.00 room 219	Prototype preparation. Independent work in a laboratory	
13.00 – 16.00 room 319	CybPhys MC meeting and Workshop Meeting with the Rector of RTU and Rector of CPNU	All partner's representatives. Rector, Prof Leonids Ribickis Rector, Prof Oleh Novomlynets
Friday January 28th 9.00 – 12.00, room 319	Presentation of prototype Closing of the seminar Issue of certificates	Prof N.Kunicina, Prof A. Ziravecka, Dr A.Zabasta, All partners representatives
13.00 – 16.00 room 319	CybPhys Management Committee Meeting.	All partners representatives
Saturday January 29th	Return to Ukraine	

The students from:

- Kryvyi Rih National University,
- Kharkiv National Automobile and Highway University,
- Chernihiv Polytechnic National University,

participated in the School:

	University	Student, teacher, manager	Name, surname	e-mail
1	CPNU	Student	Tymofii Yakushkin	yakushkintima@gmail.com
2	CPNU	Student	Yevhenii Kuts	fharse@gmail.com
3	CPNU	Student	Andrii Los	andriilos91@gmail.com
4	KhNAHU	Student	Hanna Hnatova	annagnatova22@gmail.com
5	KhNAHU	Student	Dmytro Hriebiennikov	gda.dmitriy1611@gmail.com
6	KhNAHU	Student	Serhii Novikov	ttopok.serega@gmail.com
7	KhNAHU	Student	Illia Ilyshak	lyshak.ilysha@gmail.com
8	KNU	Student	Lyashok Nazar	ducken00799007@gmail.com
9	KNU	Student	Dmytriieva Violetta	violettadmitriev@gmail.com
10	KNU	Student	Tyshchenko Oleksandr	Tikhan23@knu.edu.ua

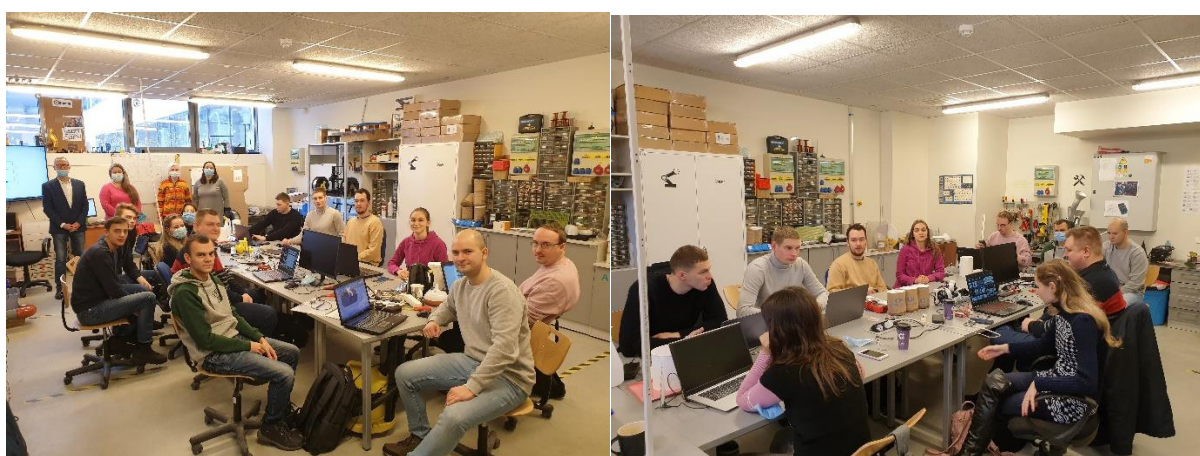
11	KNU	Student	Kravchenko Olga	kravchenko@knu.edu.ua
12	KNU	Student	Lemeshko Andrii	andrey.lemeshko26@gmail.com

During the last two days of the School two events were conducted: the MC meeting and WS on January 27-28th and a visit of the CPNU Rector.

Both rectors of RTU and CPNU visited the Student School and CybPhys meeting of the partners.



At the end of the Students School with Ukrainian teachers and RTU team members



This is a student's laboratory, which was a working place for Ukrainian students



The students defended their product prototypes at the end of the School



After issuing of the Student's School certificates



Visiting of RTU EVIF laboratories