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

CybPhys: Management meeting and WS

Zoom meeting

March 1st 2021

Anatolijs Zabashta
Project coordinator
Riga Technical University

Agenda of the meeting

- Information about the status

1. Elaboration of e-books (WP2)

2. Development of SMSE platform. Information from WP4 working group.

- Other questions
- Next meetings

Project progress

- WP4: A meeting of the Working group was arranged on **February 17th**. A Roadmap was updated- *discussions are needed!*
- English language course was held on **February 22nd**. 15 teaching staff members participated at this session.
- RTU – KhNAHU: discussions about Double Diploma master program are on the way (*v.11 of Cooperation Agreement*)
- Process of accreditation in Belarusian Government. Forecast on **March?**

WP2: Development and modernizing of curricula

The year 2nd of the project

- 2.1. Development curricula and study programs for education. Teaching materials for the bachelor- and master-students study programs and courses
- 2.2. Teaching staff training on curricula topics. Students training on curricula topics.
- 2.3. Teachers training on professional English languages skill.
- 2.4. Workshops for curricula and study programs development: WS2 – WS9
- 2.5. Curricula accreditation in the universities and Accreditation offices of PCs
- 2.6. Testing and validation of the developed education programs, courses and lab practices.
- 2.9. Double Degree Master program development and accreditation.

New teaching books

1. Bringing innovations to the market – RTU, GSU
2. Mathematical Modelling of Mechatronic Systems – KU Leuven
3. Model-oriented control in Intelligent Manufacturing Systems – CNUT
4. Modern Mathematical Physics: Fundamentals and Application – BSU
5. High-Performance Scientific Computing and Data Analysis – BSU
6. Cyber-Physical Systems modelling and simulation – UCY
7. Cyber-Physical Systems for Clean Transportation – KNAHU
8. Control methods for critical infrastructure and Internet of Things (IoT) systems interdependencies analysis – RTU
9. Computer modeling of physical processes (handbook for students and PhD students) MSPU (Aleksandr Makarevich)

<https://eduphys.bsu.by/course/view.php?id=84>


DEVELOPMENT OF INNOVATIVE ICT BASED EARNING ENVIRONMENT

 Instructional technical videos and presentations on ICT based learning during meetings


DEVELOPING THE SHARING MODELLING AND SIMULATION ENVIRONMENT PLATFORM

 Development documents

 Technical instructions

 Learning and teaching materials

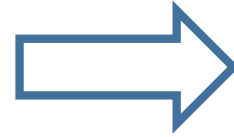
 Technical Requirements (draft 03.02.21)

 Meetings of the Working group on SMSE

Python for Everybody

Exploring Data Using Python 3

Dr. Charles R. Severance



Notes from the WS on February 17th

Credits

Editorial Support: Elliott Hauser, Sue Blumenberg
Cover Design: Aimee Andrion

Printing History

- 2016-Jul-05 First Complete Python 3.0 version
- 2015-Dec-20 Initial Python 3.0 rough conversion

Copyright Details

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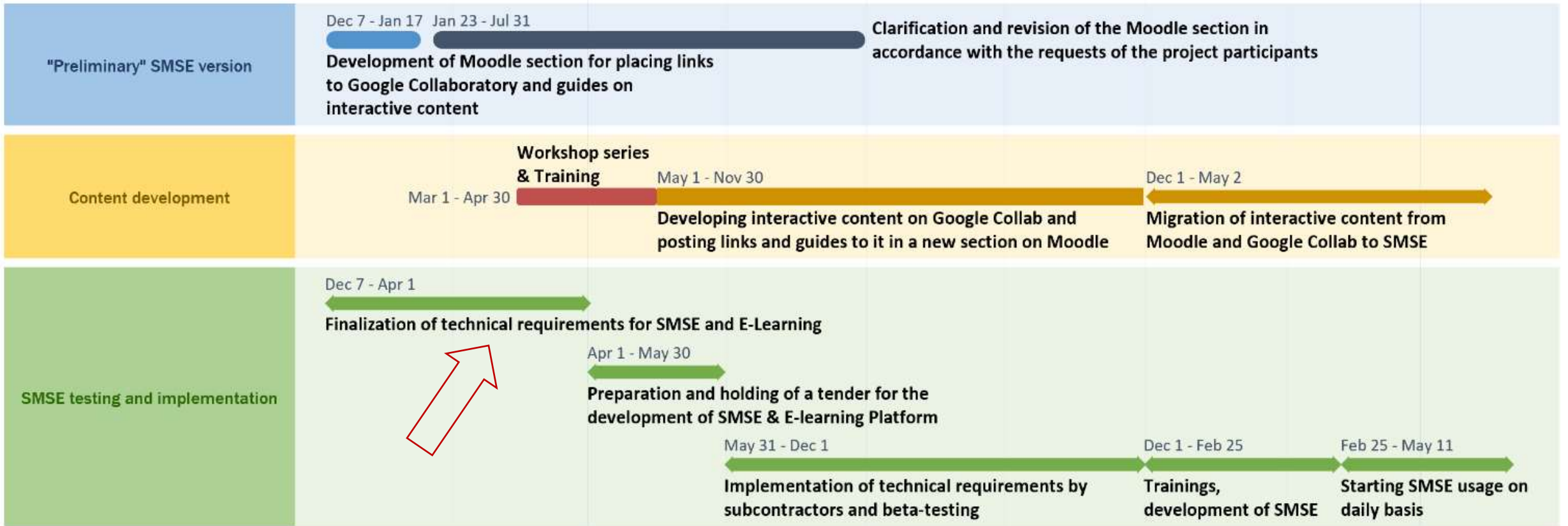
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1) Teaching resource, at least compendium of links to some well-proven Python courses or teaching materials.

2) Workshop or video with the full development of interactive document for the lecture from scratch.
[WP3? KU Leuven colleagues?](#)

3) Workshop with an example of [nbgrader](#) usage & installation in [Jupyter notebook](#).

Our colleague from BSU Alexander has kindly agreed to deliver it, the date would be provided soon. 😊

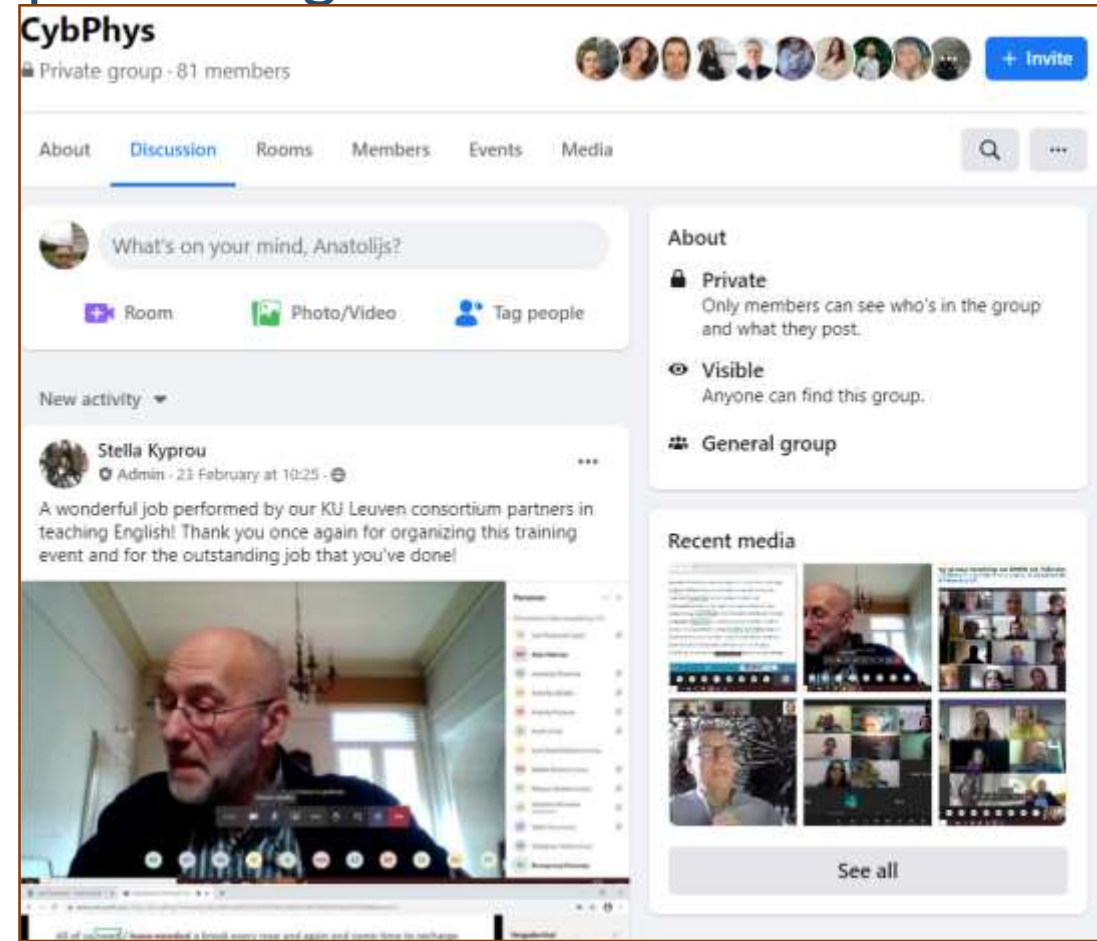
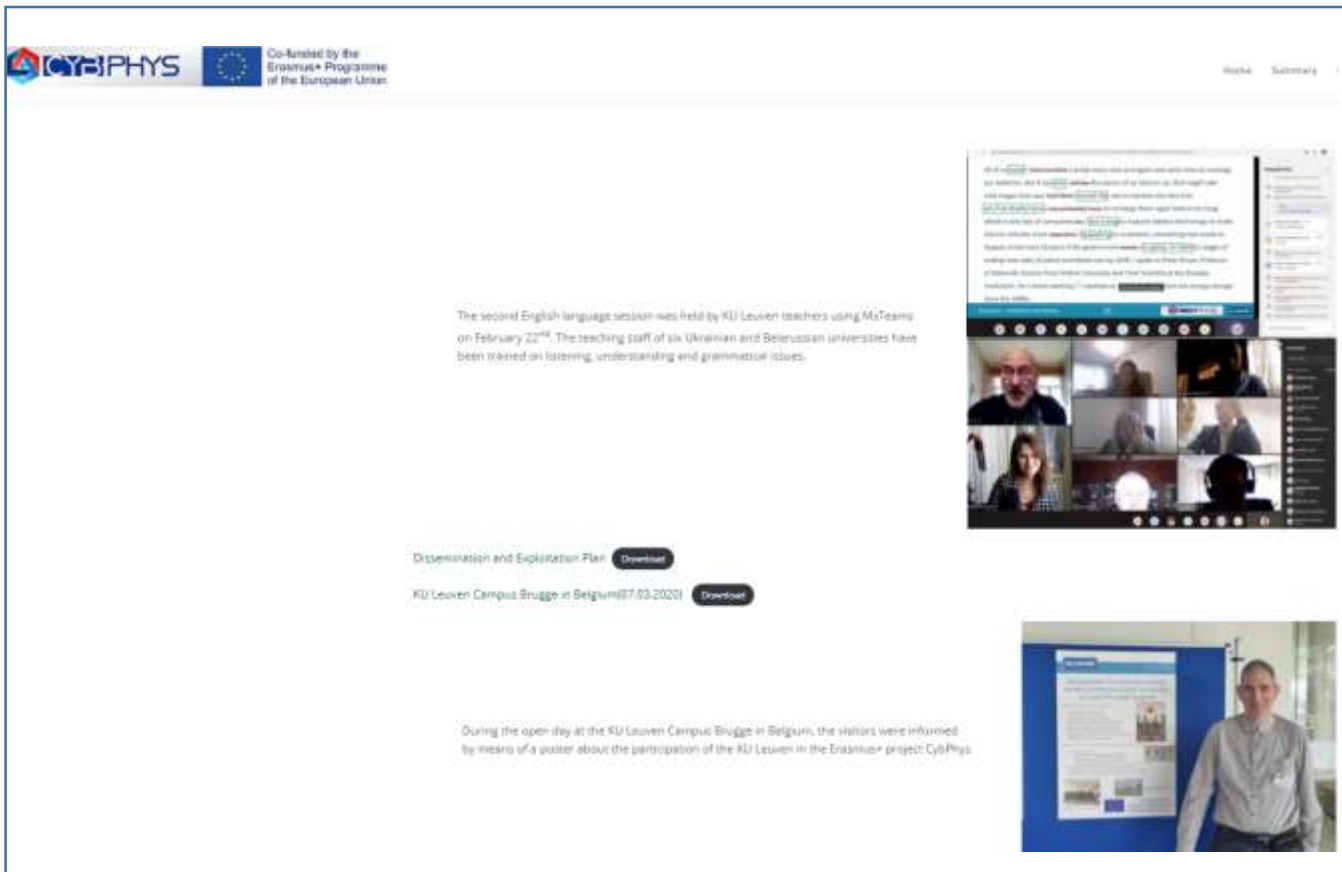


Other questions

Dissemination

For CybPhys homepage <https://cybphys.rtu.lv/>

Each partner send at least one material per month to A.K. Fedotov. Then he will elaborates and send to RTU team for publishing



Other questions: project budget

- 18th month = 15th of May – half time of the project
- Partner's Midterm reports = **15th of June: 70% of the 1st advance to be spent!**
- Consolidated report to EACEA no later than 20th month = **15th of July!**
- 24th month = by 15th of November - **the last opportunity** to get the 2 advance!

Penalties!

View

Participants (21)

Find a participant

- AZ Anatolijs Zabašta (Host, me)
- Dzianis Marmysh
- NK Nadezhda Kunicina
- VK Volodymyr Kazymyr
- VS Volorymyr Sistuk
- Alexander Fedotov
- AF Alexander Fedotov
- A Andrii
- IC Irina Ciornei (KIOS CoE)

Invite

Mute All

Chat

From Alexander Fedotov to Everyone:

Denis will join us in 10 minutes

To: Everyone

Type message here...



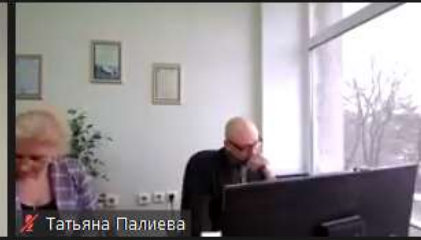
Volodymyr Kazymyr



Anatolijs Zabašta



Joan Peuteman



Татьяна Палиева



Nadezhda Kunicina



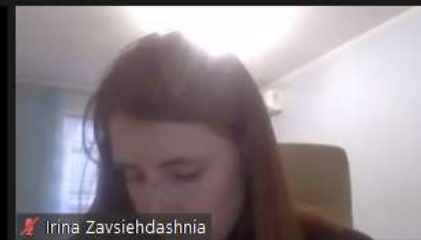
Sammy Verslype



Vitalii Tron (KNU)



Natalia Mokun



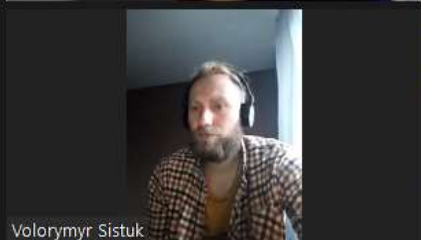
Irina Zavsiehdashnia



Alexander Fedotov



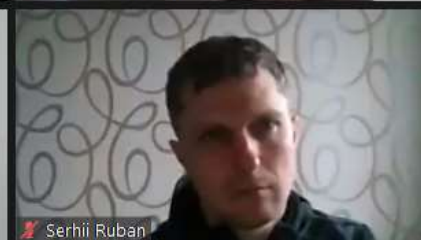
Dzianis Marmysh



Volorymyr Sistuk



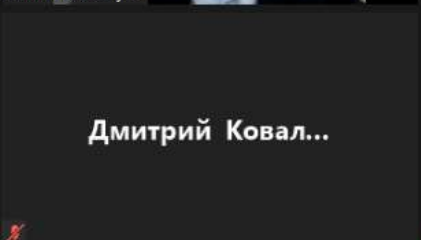
Andrii



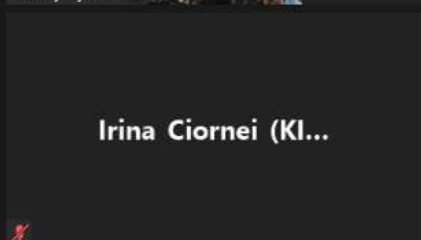
Serhii Ruban



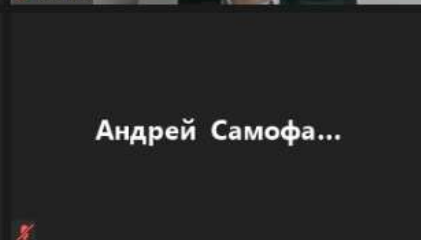
Lyudmila Kruhlenko



Дмiтрий Ковал...



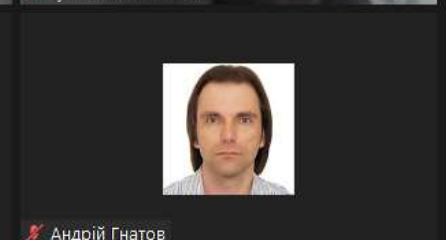
Irina Ciornei (KIOS CoE)



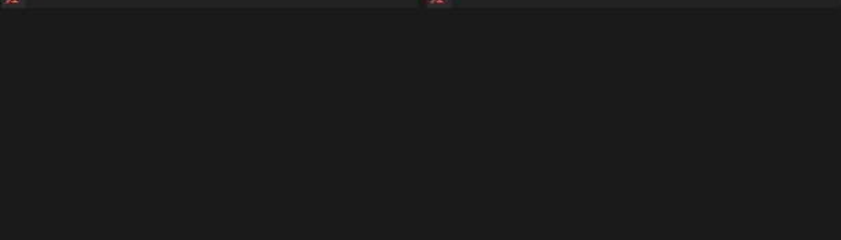
Андрей Самофалов



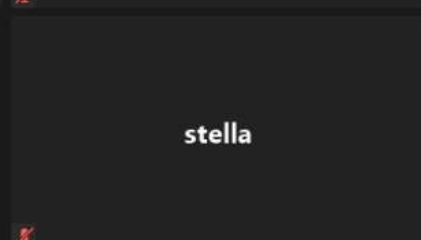
Alexander Fedotov



Андрій Гнатов



stella



stella

Next meeting schedules

Suggested dates for the next meetings:

- April **12th** Monday
- May 4 **Tuesday**

Monday April 12th:

1. Development and modernizing of curricula (WP2)
2. Dissemination activities in Covid-19 environment.



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Thank you!