Project: Development of practically-oriented student-centred education in the

field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

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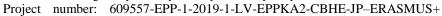
Report on new curricular testing with feedback from stakeholders

Deliverable D2.8, D5.5

Consolidated report

Project: Development of practically-oriented student-centred education in the

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Contents

1.	INT	RODUCTION	5
2.	DES	SCRIPTION OF THE METHOD OF COURSES TESTING	8
	2.1	STUDENTS ATTRACTION	8
	2.2	FEED-BACK FROM THE STUDENTS BY SUBJECTS	8
	2.2.	1. Consolidated feedback from students about courses testing12	
	2.3 SUBJEC	FEED-BACK FROM ACADEMIC/TEACHING STAFF INVOLVED IN TEACHING OF STUDENTS BY	13
	2.4	FEED-BACK FROM THE STUDENTS' ORGANISATIONS	15
	2.4.	1. A consolidated feed-back from the students' organization15	
	2.5.	ELABORATION OF THE COURSES TESTING RESULTS	16
3.	. CPI	NU - CHERNIHIV POLYTECHNIC NATIONAL UNIVERSITY (EXAMPLE!)	16
	3.1	STUDENTS ATTRACTION	18
	3.2	FEED-BACK FROM THE STUDENTS BY SUBJECTS	18
	3.3 SUBJEC	FEED-BACK FROM ACADEMIC/TEACHER STAFF INVOLVED IN TEACHING OF STUDENTS BY	18
	3.4	FEED-BACK FROM THE STUDENTS' ORGANISATION	18
	3.5	ELABORATION OF COURSES TESTING RESULTS	18
4.	. KN	U - KRIVIY RIH NATIONAL UNIVERSITY	18
	4.1	STUDENTS ATTRACTION	18
	4.2	FEED-BACK FROM THE STUDENTS BY SUBJECTS	19
	4.3 SUBJEC	FEED-BACK FROM ACADEMIC/TEACHER STAFF INVOLVED IN TEACHING OF STUDENTS BY	19
	4.4	FEED-BACK FROM THE STUDENTS' ORGANISATION	19
	4.5	ELABORATION OF COURSES TESTING RESULTS	19
5.	KH	NAHU - KHARKIV NATIONAL AUTOMOBILE AND HIGHWAY UNIVERSITY	20
	5.1	STUDENTS ATTRACTION	20
	5.2	FEED-BACK FROM THE STUDENTS BY SUBJECTS	21
	5.3	FEED-BACK FROM ACADEMIC/TEACHER STAFF INVOLVED IN TEACHING OF STUDENTS BY	21
	5.4	FEED-BACK FROM THE STUDENTS' ORGANISATION	
	5.5	ELABORATION OF COURSES TESTING RESULTS	
~		NEVEC.	25

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

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



Project: Development of practically-oriented student-centred education in the

field of modelling of Cyber-Physical Systems, CybPhys.

 $Project \quad number: \quad 609557\text{-}EPP\text{-}1\text{-}2019\text{-}1\text{-}LV\text{-}EPPKA2\text{-}CBHE\text{-}JP\text{-}ERASMUS\text{+}}$

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Project: Development of practically-oriented student-centred education in the

field of modelling of Cyber-Physical Systems, CybPhys.

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CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



1. Introduction

The Report on new curricular testing with feedback from stakeholders is a description of a progress on development and implementation of study programs at partner universities.

According to Log Frame Matrix (LFM) the report should elaborate:

- Partners reports with lists of the students studying in the modernised study programs.
- Partners reports with feed-back forms from students by subjects.
- Partners reports with feed-back forms from academic/teacher staff involved in teaching of students by subjects.
- Partners reports with results of final testing by subjects.
- Partners reports with feed-back forms from student organisations (if any have been established at a university) by subjects.

The measurement of indicators according to the LFM are: "The number of study programs, courses and virtual laboratory practices, validated and tested in the PCs universities".

The report should be done by higher education institutions of Ukrainian partners: Chernihiv Polytechnic National University, CPNU, Kharkiv National Automobile and Highway University, KhNAHU, Kriviy Rih National University, KNU.

Participation of Belarussian partners BSU, GSU and MSPU was suspended due to rejection of the CybPhys accreditation by Belarusian authorities.

The list of courses from the Detailed Project Description

BSU

Programs:

Mechanics and mathematical modelling (for bachelors)

WEB-coding and Internet technologies (for bachelors),

New Courses 11

Internet of Things

Equations of mathematical physics

Fundamentals of mathematical modelling

Mathematical physics

Mathematical modelling of physical processes

High-Performance computing for numerical simulations and data analysis

Mathematical modelling for fluid- and gas dynamics

Data mining and acquisition

Development of applications for high-performance computing (laboratory practicum)

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field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



Simulations of physical processes using high-performance computing systems (laboratory practicum)

Modern approaches to Big Data analysis (laboratory practicum)

Modernised: 2

Information Technology

Programming for supercomputers

GSU

New courses 10: (Bachelor, masters). "Physics. Physical Basic of Mechanics"

Fundamentals of business and legislation in IT

Theoretical Mechanics

Analytical modelling of friction and wear processes

Simulation of the interaction of electromagnetic waves with DNA-like helices

Technologies of laser treatment of materials

Modelling of microwave and THz devices based on metamaterials

Simulation of surface charge distribution in nanostructured materials

Practical statistics for physicists

Hardware and software of networks

Microprocessors and microcontrollers

Modernised: Bachelor, masters

Computer simulation of physical systems and processes

Computer systems of analytical calculations

MSPU

New courses 4 (Bachelor, masters) Computer Physics. Computerized-modelling of Physical processes"

Research tasks in Physics

Computer modelling of physical systems, processes and phenomena

Modern integrated packages for analysis and modelling of processes and systems

Object oriented programming

Modernised: Quantum electronics and holography 1 Electrodynamics

CPNU Chernihiv Polytechnic National University

New Master program "Industrial Automation" (developed and accredited courses). Accreditation in the Ministry of Science and Education

New courses 5:

Model-oriented control in Digital Manufacturing

Programming of Automation Systems

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field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



Design and Simulation of Power electronics components

Modelling and Measurement of physical processes in Robotics

Simulation of Manufacturing Environment

Existing Bachelor program "Computer systems of automation" (updated courses) 2

Simulation of electronic circuits

Development of electromechanical robotic systems

KhNAHU - Kharkiv National Automobile and Highway University

Training courses will be developed for Master's students program in "Electric Vehicles and Energy-Saving Technologies". The program will be accredited by the Education and Science of Ukraine.

New courses: 2

Energy-saving technologies in transport

The structure of hybrid and electric vehicles

<u>Modernise</u>d: 4. Training courses will be upgraded and renewed for Master's students in "Electric Vehicles and Energy-Saving Technologies": **4**

Electric systems of environmentally friendly vehicles

Methods of planning scientific research on vehicles

Mathematical modelling and methods of optimization

Intelligent information technologies and systems in transport

Work on the developing of the curricula and courses for Master's program with dual (multilateral) diplomas in the educational program "Electric vehicles and Energy-Saving Technologies

KNU - Kriviy Rih National University

Training courses will be developed for Master's students program in "Cyber-physical systems" (Program Subject Area: Automation and computer-integrated technologies). The program will be accredited by the Education and Science of Ukraine.

New: master degree 3

Smart manufacturing based on cyber-physical systems

Machine Learning for Cyber Physical Systems and Industry 4.0

Transportation Cyber-Physical Systems

Modernised: master degree: 4

Training courses will be upgraded and renewed for Master's students in "Cyber-physical systems" and "Automobiles and Fleet".

Designing Computer Integrated Systems Project Approach to the Designing of Cyber-Physical Systems (27.03.20, F.Dantin)

Adaptive and Robust Systems

Computer modelling of physical processes and systems Open-Pit Transport Cyber-Physical Systems (27.03.20, F.Dantin)

Modern Information Technologies in Transport.

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field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



Description of the method of courses testing 2.

2.1 Students attraction

The partners provide short information about students' participation in new developed training courses. Partners insert copies of lists of the students studying in the modernised study programs (Annex 1). The attraction report must contain: description, agenda and list of attendance, presentations (if applicable).

2.2 Feed-back from the students by subjects

According to the project plan in the autumn and spring semesters new and modernised courses to be tested. For a testing procedure we used the template sheets of students. The copies of filled Training Evaluation Sheets of Students should be presented in Annex 2.

Questionnaire for students' assessment of the course they have completed Анкета для оцінки курсу студентами

Title of course (Назва курсу):	
Level of training course (Рівень вищої освіти):	
Date (Дата заповнення):	
Name of academic(s) (ПІБ викладача):	
Department (<i>Kaфedpa</i>):	

Rate this course using the following scale (Оцініть курс, використовуючи наступну шкалу):

- 5 Strongly agree (Абсолютно згоден/згодна)
- 4 Partially agree (Частково згоден/згодна)
- 3 Neutral assessment (Нейтральне відношення)
- 2 Partially disagree (Частково не згоден / не згодна)
- 1 Strongly disagree (Абсолютно не згоден /не згодна)

No	Criterion (Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Strongly agree
1	All study program themes required to	Ü	Ü			
	achieve the defined learning outcomes were					
	covered					
	Всі теми навчальної програми дозволяли					
	досягти мети курсу, що вивчається					
2	The course was well-structured and the					
	themes were explained in a comprehensive					
	manner					
	Курс був добре структурованим і теми					
	були пояснені у доступній формі					
3	The logical structure of the lecture was					
	maintained					
	Логічна структура лекцій витримана					
4	Audio-visual materials were efficiently					
	used during the lecture					

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Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

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No	Criterion	Strongly	Partially	Neutral	Partially	Strongly
	(Критерій)	disagree	disagree	assessment	agree	agree
	Ефективно використовувалися аудіо-					
	візуальні матеріали під час лекцій					
5	Creative thinking was efficiently promoted					
	Ефективно розвивалося критичне					
	мислення					
6	Practical application of theory was					
	efficiently promoted					
	Ефективно розвивалося практичне					
	застосування теорії					
7	During the class the amount of theoretical					
	material and practical tasks was balanced					
	Π ід час занять кількість теоретичного					
	матеріалу та практичних завдань було					
	збалансовано					
8	Recommended literature sources were					
	accessible and helped in acquiring the					
	course materials					
	Рекомендовані літературні джерела					
	були доступні та допомагали					
	оволодінню навчальними матеріалами					
9	The lecturer/professor's attitude to the					
	students was positive and helpful					
	Ставлення лектора/професора до					
	студентів було позитивним та					
	доброзичливим.					
10	The time for the completing of the practical					
	tasks was enough					
	Часу на виконання практичних завдань					
	вистачило.					
11	The information about the class's					
	organisation was clear and easily available					
	Інформація про організацію занять була					
	ясною та доступною.					

11	The information about the class's organisation was clear and easily available <i>Інформація про організацію занять була</i>				
	ясною та доступною. t did you like in the course? вам сподобався цей курс?				<u> </u>
	ne 3 points you would like to take with you/ha піть найбільш значущі з Вашого погляду зна		цих заняттях	:	
		_			

Project: Development of practically-oriented student-centred education in the

field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

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Oo you have any suggestions for further improvement of the course? (If so, please give details and if you yould like to be contacted about this idea please include your email address)
$Iu\ \epsilon\ y\ вас\ якісь\ пропозиції\ щодо\ подальшого\ вдосконалення\ курсу?\ (Якщо\ так, то\ прохання\ точнити, і\ якщо\ ви\ хочете,\ щоб\ з\ Вами\ зв'язалися\ з\ цього\ питання,\ будь\ ласка,\ вкажіть\ адресу\ воєї\ електронної\ пошти)$
f you do not mind, please could you give us some additional more information about yourself
Іи можна дізнатися більше інформації про вас?

Gender: Male/Female/Prefer not to specify

Age: 16-21 22-30 31-40 41-50 51-60 61+

Status: Home Student EU Student International Student

A template of a questionnaire for students (in English with translation to Russian for Belarusian students)

Title of training course:	
Level of training course (Bachelor, Master):	
Date:	
Name of Trainer(s):	
Room:	
Faculty:	

Rate this course using the following scale:

- 5 Strongly agree
- 4 Partially agree
- 3 Neutral assessment
- 2 Partially disagree
- 1 Strongly disagree

No	Criterion	Strongly	Partially	Neutral	Partially	Strongl
		disagree,	disagree,	assessment,	agree,	y agree,
		%	%	%	%	%
1	All study program themes required to achieve the defined learning outcomes were covered Все темы учебной программы позволяли достигнуть цели изучаемого курса					
2	The course was well-structured and the themes were explained in a comprehensible manner Курс был хорошо структурированы и темы были объяснены в доступной форме					

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



Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.

		<u> </u>	
3	The logical structure of the lecture		
	was maintained		
	Логическая структура лекций		
	выдержана		
4	Audio-visual materials were		
	efficiently used during the lecture		
	Эффективно использовались		
	аудио-визуальные материалы во		
	время лекций		
5	Creative thinking was efficiently		
	promoted		
	Эффективно развивалось		
	критическое мышление		
6	Practical application of theory was		
	efficiently promoted		
	Эффективно развивалось		
	практическое применение теории		
7	During the class the amount of		
	theoretical material and practical		
	tasks was balanced		
	Во время занятий количество		
	теоретического материала и		
	практических задач было		
	сбалансировано		
8	Recommended literature sources		
	were accessible and helped in		
	acquiring the course materials		
	Рекомендуемые литературные		
	источники были доступны и		
	помогали овладению учебным		
	материалам		
9	The lecturer/professor's attitude to		
	the students was positive and helpful		
	Отношение лектора/профессора к		
	студентам было позитивным и		
10	доброжелательным		
10	The time for the completing of the		
	practical tasks was enough		
	Время для выполнения		
	практических заданий		
	(контрольных работ, тестов)		
11	<i>было достаточным</i> The information about the classes		
11			
	organisation was clear and easy available		
	Информация об организации		
	занятий была ясной и доступной		

What did you like in the course? Чем Вам понравился этот курс?

Project: Development of practically-oriented student-centred education in the

field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



Выделите наиболее значимые с Вашей точки зрения знания, которые Вы приобрели на этих занятиях

Do you have any suggestions for further improvement of the course? (If so, please give details and if you would like to be contacted about this idea please include your email address)

Есть ли у вас какие-либо предложения по дальнейшему совершенствованию курса? (Если да, то просьба уточнить, и если вы хотите, чтобы с Вами связались по этому вопросу, пожалуйста, укажите адрес своей электронной почты)

If you do not mind, please could you give us some additional more information about yourself

Gender: Male/Female/Prefer not to specify

Age: 16-21 22-30 31-40 41-50 51-60 61+

Status: Home Student EU Student International Student

2.2.1. Consolidated feedback from students about courses testing

After proceeding of students' questionnaires, the partners should fill in a Table 2 that provides a consolidated result of students answers about tested courses. The results should be presented in Annex 3 of the partner report.

Date of testing:

How many questionnaire forms have been proceeded?

How many questionnaire forms were found valid?

Table 2: Statistics on the answers given on the tested courses (in percentage).

Course Name of	Degree of course	Testing results						
course		Strongly disagree %	Partially disagree %	Neutral assessment	Partially agree %	Strongly agree %		
		70		70				

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

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



2.3 Feed-back from academic/teaching staff involved in teaching of students by subjects

According to the project plan in the autumn and spring semesters a feedback from academic/teacher staff involved in teaching of students should be evaluated by subjects.

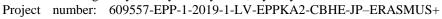
The partners presented copies of questionnaires filled by academic/teacher staff.

Questionnaire for testing procedure of academic stuff: Анкета для опитування викладачів

Title of training course (назва кур	ocy):							
Level of training course (Bachelor, Master) (Рівень вищої освіти):								
Date (∂ama):								
Name of Trainer(s) (ПІБ виклада	ча):							
Department (καφεδρα):								
Full number of students registered for the course								
Повна кількість студентів, зареєстрованих на курс								
Evaluation of average attendance of the classes, (%)	Lect (Лекції	i)	Pract (Πμ	ракт.з)		Lab (<i>Лаб. 3</i>)		
Оцінка середньої відвідуваності занять, (%)								
The number of students who have attended the final control assessment (the exam)	High (A, B)	Aver (C	_	Low (D, E)		Failed (F, FX)		
Кількість студентів, які мають кінцеву контрольну оцінку (іспит)								
			•					
The proportion of tasks (in %) of	all included in th	e course,	aimed at:					
Питома вага завдань (у %) від у	усіх включених у	, курс, спр	рямовані	их на:				
pure application of knowledge	development of					new competences,		
чисте застосування знань	thinking, causa analysis, develo practical experi	ard app	nking, the ability to proaches in solving aking decisions					
	розвиток крип	пичного		розвиток	нових	: компетенцій,		
	мислення, прич наслідковий ан		อบพอง	самостій		лислення, гестандартних		

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field of modelling of Cyber-Physical Systems, CybPhys.



CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



	практичного досвіду та навичок	підходів у вирішенні проблем і прийнятті рішень
The proportion of students who h	ave completed these tasks with the	highest grade (in %)
Частка студентів, які виконал	и ці завдання з найвищою оцінкої	o (y %)
pure application of knowledge чисте застосування знань	development of critical thinking, causal-investigatory analysis, development of practical experience and skills	development of new competences, independent thinking, the ability to non-standard approaches in solving problems and making decisions
	розвиток критичного мислення, причинно- наслідковий аналіз, розвиток практичного досвіду та навичок	розвиток нових компетенцій, самостійного мислення, здатності до нестандартних підходів у вирішенні проблем і прийнятті рішень
(Укажіть кілька основі курсу?)	ions for further improvement of the	at in mastering from this course. В важливішими для засвоєння цього в course? (Чи є у вас пропозиції щод

Signature

Project: Development of practically-oriented student-centred education in the

field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



Evaluation Sheets of teaching staff form should be presented in Annex 4.

2.4 Feed-back from the students' organisations

A form of a student organisation (Student Parliament, Self-Governance, etc.) is expected to complete this testing. The recommendation is to use the same questionnaire form developed before for students (see chapter 2.2), but to summarise the results in free form. In case of such organisation absence at the university this fact should be mentioned in the report.

The results should be presented in Annex 5 of the partner report.

2.4.1. A consolidated feed-back from the students' organization

Date of testing:

How many questionnaire forms have been proceeded?

How many questionnaire forms were found valid?

Statistics on the answers given on the course (in percentage)

Course Name of course	Degree of	Testing resu	ılts			
	course	Strongly	Partially	Neutral	Partially	Strongly
		disagree	disagree %	assessment	agree %	agree %
		%		%		

					1
Comments and conclusi	ions about tes	ting results.			
Head of Committee				Signatur	œ

Project: Development of practically-oriented student-centred education in the

field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



2.5. Elaboration of the courses testing results

We will ask you to provide *course testing results twice*: in January after autumn academic session and in June after spring academic session. Therefore, we are going to notice a dynamic in students and teaching staff perception during course testing.

For each partner we expect to have 4 different kinds of feedback forms:

- Student attraction activity overview (including attachment of attendance lists);
- Student feedback testing (attachment of student's questionnaire);
- Feed-back from academic/teacher staff involved in teaching of students by subjects (attachment of teacher's questionnaire);
- Feed-back from student's governance of each university involved in the testing.

3. CPNU - Chernihiv Polytechnic National University (example!)

Description of the courses tested during the 1st testing year (see Table 1).

Project: Development of practically-oriented student-centred education in the

field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

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Table 1: The training programs and courses were developed and tested in autumn semester (example)

Univers ity	Course/Lab title	Update d or totally new	Level (Bachelor , Master 5-year course)	ECT S credi t poin ts	The teaching/train ing methodologies developed/ado pted e.g. e-learning/ training modalities, practical placements in enterprises, etc.	The link to the university' webpage	Date of accreditation	The status / document of accreditation
CPNU	Model-oriented control in Digital Manufacturing	New	Master	5	Lectures, laboratory works	https://stu.cn.ua/wp-content/uploads/2021/04/new-courses20-1.pdf	April 27, 2020	Academic Council based on Certificate of accreditation series ND № 2685401
CPNU								
CPNU								
CPNU								

Project: Development of practically-oriented student-centred education in the



field of modelling of Cyber-Physical Systems, CybPhys. Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.

		Students attraction
	3.2	Feed-back from the students by subjects
		Feed-back from academic/teacher staff involved in teaching of ents by subjects
	3.4	Feed-back from the students' organisation
		:
••••	3.5	Elaboration of courses testing results
	4. K	KNU - Kriviy Rih National University.
	4.1	Students attraction
- •		

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



Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.

••••	4. <i>L</i>	reed-back from the students by subjects
		Feed-back from academic/teacher staff involved in teaching of ents by subjects
	4.4	Feed-back from the students' organisation
••••	4.5	Elaboration of courses testing results

Project: Development of practically-oriented student-centred education in the

field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



5. KhNAHU - Kharkiv National Automobile and Highway University

Table 5.1: The training programs and courses were developed and tested in the spring semester

University	Course/Lab title	Updated or totally new	Level (Bachelor, Master 5-year course)	ECTS credit points	The teaching/training methodologies developed/adopte d e.g. e-learning/ training modalities, practical placements in enterprises, etc.	The link to the university' webpage	Date of accredita tion	The status / document of accreditation
KhNAHU	Energy- saving technologies in transport	New	Master	8,5	Lecture, practicals, lab practicals	http://dl.k hadi.khark ov.ua/cour se/view.ph p?id=1331	autumn -winter 2022	Completed, autumn 2020
KhNAHU	The structure of hybrid and electric vehicles	New	Master	4	Lecture, lab practicals	https://dl.k hadi.khark ov.ua/cour se/view.ph p?id=1630	autumn -winter 2022	Completed, autumn 2020
KhNAHU	Electric systems of environment ally friendly vehicles	Updated	Master	4	Lecture, lab practicals	http://dl.k hadi.khark ov.ua/cour se/view.ph p?id=1356	autumn -winter 2022	Completed, autumn 2020
KhNAHU	Intelligent information technologies and systems in transport	Updated	Master	8,5	Lecture, practicals, lab practicals	http://dl.k hadi.khark ov.ua/cour se/view.ph p?id=1357	autumn -winter 2022	Completed, autumn 2020

5.1 Students attraction

Master students of KhNAHU, Automotive faculty, group AE-51-21 take part in the survey. Students are trained in the specialty "Electric Power Engineering, Electrical Engineering and Electromechanics" under the program "Electric Vehicles and Energy-Saving Technologies".

Education of students in the second (spring) semester began in a remote form from January 31, 2022. From February 28, 2022 to March 27, 2022, there was a break (vacation) due to the military attack (war) of Russia on Ukraine. From March 28, 2022, classes resumed remotely

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field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



and continued until June 19, 2022. The session was held from 06/20/2022 to 07/04/2022. From 07/05/2022 to 07/21/2022, a survey of students, group AE-51-21, was conducted.

Because there was a 1 month break (vacation), then the spring semester was extended by 1 month so that students could fully master the curriculum planned for this semester. Due to the fact that distance learning has been introduced into the educational process in KhNAHU over the past few years, the university departments, teaching and engineering staff were ready for this form of education, and did not experience any particular problems. As a result, the spring semester was successfully held.

Table 5.2: List of Masters students of KhNAHU, Automotive faculty, group AE-51-21, who took part in the survey

Number	Student (EN)	Student (UA)
1	Alexandrov Vladislav Alekseevich	Александров Владислав Олексійович
2	Alekseychuk Denis Ivanovich	Алєксєйчук Денис Іванович
3	Buchachenko Alexander Sergeevich	Бучаченко Олександр Сергійович
4	Volobueva Irina Andreevna	Волобуєва Ірина Андріївна
5	Dyomin Stanislav Yevhenovich	Дьомін Станіслав Євгенович
6	Mehdi pawnshops	Ламбаркі Мехді
7	*Missouri Rostislav Vladimirovich	Місюра Ростислав Володимирович
8	Popov Vadim Dmitrovich	Попов Вадим Дмитрович
9	Timoshevsky Dmitry Sergeevich	Тимошевський Дмитро Сергійович
10	Farah Abdelwahed	Фарахе Абдельвахед
11	Shcherbak Mikhail Pavlovich	Щербак Михайло Павлович
12	Yurchyshyn Anton Valeriyovych	Юрчишин Антон Валерійович

^{*} The student was expelled in the second (spring) semester.

5.2 Feed-back from the students by subjects

The copies of filled Training Evaluation Sheets of Students are presented in Annex 2.

5.3 Feed-back from academic/teacher staff involved in teaching of students by subjects

Two teachers took part in the survey in the second (spring) semester: Professor Andrii Hnatov, Professor Shchasiana Arhun.

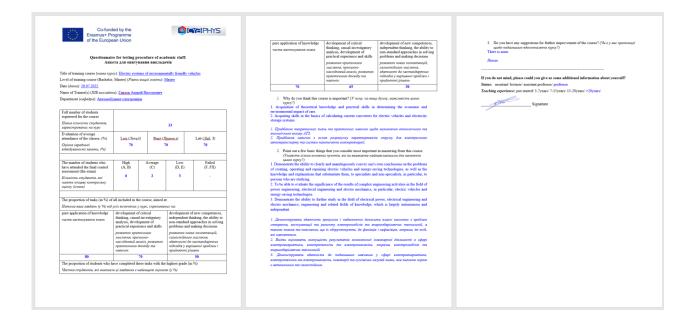
Professor Andrii Hnatov

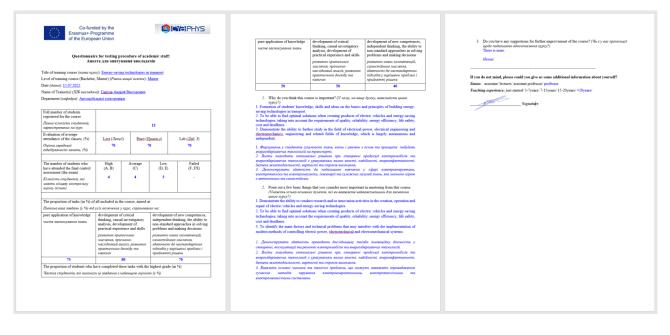
Project: Development of practically-oriented student-centred education in the field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022







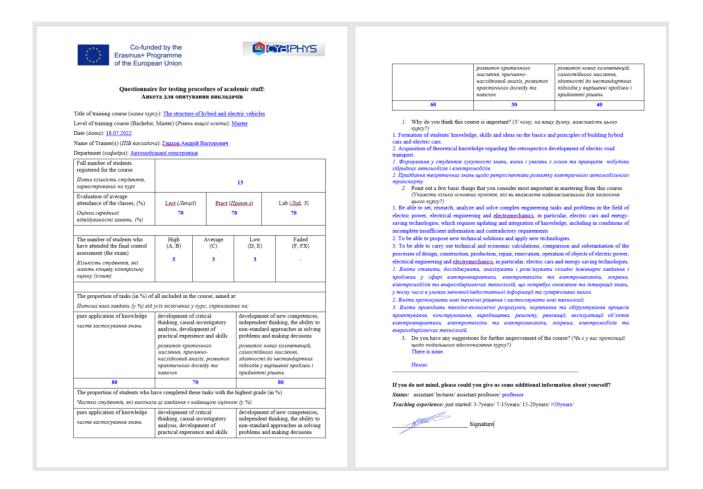
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field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.





Professor Shchasiana Arhun

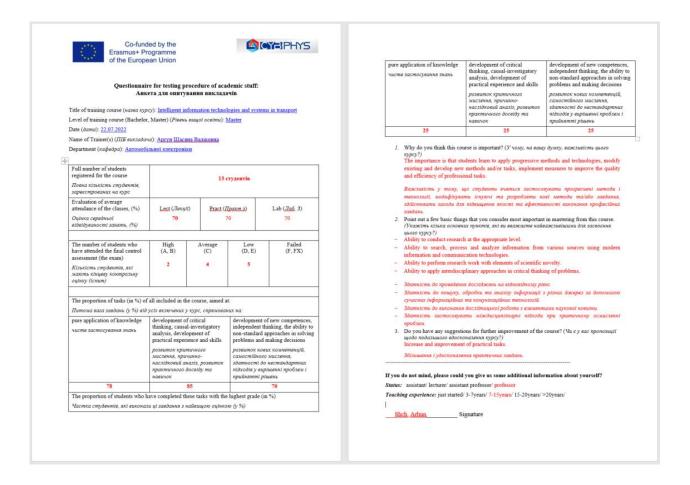
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field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.





5.4 Feed-back from the students' organisation

Students who are members of the KHNAHU student organization are not related to specialty "Electric Power Engineering, Electrical Engineering and Electromechanics" and program "Electric Vehicles and Energy-Saving Technologies". For this reason, a survey of representatives of student organizations was not conducted.

5.5 Elaboration of courses testing results

The results of processing student questionnaires

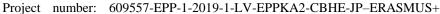
A total of 11 student questionnaires were processed in the second (spring) semester. The results of this processing are summarized in the table 5.3. The copies of filled Training Evaluation Sheets of Students are presented in Annex 2.

Table 5.3: The results of processing student questionnaires

No	Criterion	Strongly	Partially	Neutral	Partially	Strongly
	(Критерій)	disagree,	disagree,	assessment,	agree, %	agree, %
		%	%	%		

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

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+



CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



No	Criterion (Критерій)	Strongly disagree,	Partially disagree,	Neutral assessment,	Partially agree, %	Strongly agree, %
1	All study program themes required to achieve the defined learning outcomes were covered Всі теми навчальної програми дозволяли досягти мети курсу, що вивчається	-	-	6.8	29.5	63.6
2	The course was well-structured and the themes were explained in a comprehensive manner Курс був добре структурованим і теми були пояснені у доступній формі	-	-	4.5	36.4	59.1
3	The logical structure of the lecture was maintained Логічна структура лекцій витримана	-	-	15.9	18.2	65.9
4	Audio-visual materials were efficiently used during the lecture Ефективно використовувалися аудіовізуальні матеріали під час лекцій	-	-	13.6	18.2	68.2
5	Creative thinking was efficiently promoted Ефективно розвивалося критичне мислення	-	-	11.4	31.8	56.8
6	Practical application of theory was efficiently promoted Ефективно розвивалося практичне застосування теорії	-	-	11.4	38.6	50.0
7	During the class the amount of theoretical material and practical tasks was balanced Під час занять кількість теоретичного матеріалу та практичних завдань було збалансовано	-	-	9.1	34.1	56.8
8	Recommended literature sources were accessible and helped in acquiring the course materials Рекомендовані літературні джерела були доступні та допомагали оволодінню навчальними матеріалами	-	-	6.8	29.5	63.6
9	The lecturer/professor's attitude to the students was positive and helpful Ставлення лектора/професора до студентів було позитивним та доброзичливим.	-	-	4.5	27.3	68.2
10	The time for the completing of the practical tasks was enough Часу на виконання практичних завдань вистачило.	-	-	11.4	22.7	65.9

Project: Development of practically-oriented student-centred education in the

field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



No	Criterion (Критерій)	Strongly disagree,	Partially disagree,	Neutral assessment,	Partially agree, %	Strongly agree, %
11	The information about the classes organisation was clear and easy available Інформація про організацію занять була ясною та доступною.	-	-	-	27.3	72.7

Course «Electric systems of environmentally friendly vehicles»

What did you like in the course?

Чим вам сподобався цей курс?

Complete presentation and relevance of the material.

Yes

The material is very interesting and useful for further use.

Topic "Economic and environmental impact of electric vehicles".

I advise everyone to familiarize themselves with this course.

Relevant. Need to know.

Interesting course.

The course was well structured and the information was clear and accessible.

I liked it.

Useful and necessary information for the development and operation of new types of transport.

Повнотою викладення і актуальністю матеріалу.

<u>Так.</u>

Матеріал дуже цікавий і корисний для подальшого використання.

Тема «Економічний та екологічний вплив електричних АТЗ» .

Всім раджу ознайомитися із цим курсом.

Актуально. Потрібно знати.

Цікавий курс.

Курс був добре структурованим та інформація була ясною та доступною.

Сподобався.

Корисна та потрібна інформація для розбудови та експлуатації нових видів транспорту.

Outline 3 points you would like to take with you/have learnt in this class

Виділіть найбільш значущі з Вашого погляду знання, які Ви придбали на цих заняттях

Nissan Leaf diagnostics using the Leaf Spy program.

Knowledge of electrical systems, skills in working with electric vehicles, environmental aspects of working with electric vehicles.

Important information on battery disposal; diagnostics of Nissan Leafe electric car; supercapacitors.

Impact of road transport on the environment.

Development of critical thinking.

How to calculate and build a solar power plant.

Critical thinking.

I learned more about the electrical systems of environmentally friendly cars.

Calculation skills of solar power plants.

High-voltage traction battery. Solid-state batteries. Supercapacitors, advantages, disadvantages, scope of application in electric vehicles.

Діагностика Nissan Leaf за допомогою програми Leaf Spy.

<u>Знання про електричні системи, навички роботи з електромобілями, екологічні аспекти роботи з електромобілями.</u>

Project: Development of practically-oriented student-centred education in the

field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



<u>Важлива інформація, щодо утилізації акумуляторних батарей; діагностика електромобіля Nissan</u> Leafe; суперконденсатори.

Вплив автомобільного транспорту на навколишнє середовище.

Розвиток критичного мислення.

Як розрахувати та побудувати сонячну електростаниію.

Критичне мислення.

Більше дізнався про електричні системи екологічно чистих автомобілів.

Навички розрахунку сонячних електростанцій.

Високовольтна тягова акумуляторна батарея. Твердотільні акумуляторні батареї.

Суперконденсатори, переваги, недоліки, сфера застосування в АТЗ.

Do you have any suggestions for further improvement of the course? (If so, please give details and if you would like to be contacted about this idea please include your email address)

Чи ϵ у вас якісь пропозиції щодо подальшого вдосконалення курсу? (Якщо так, то прохання уточнити, і якщо ви хочете, щоб з Вами зв'язалися з цього питання, будь ласка, вкажіть адресу своєї електронної пошти)

It is possible to involve representatives of car and battery recycling companies in the classes.

No, everything is great.

More practice on solar power plants.

Everything is Ok.

There is none.

Add more practice regarding the development in the calculation of charging infrastructure for electric vehicles.

More practice and calculation examples.

Можна залучити до занять представників підприємств з утилізації автомобілів та акумуляторів. Ні, все чудово.

Більше практики на сонячних електростанціях.

Все Ок.

Немає.

<u>Додати більше практики шо стосується розбудови в розрахунку зарядної інфраструктури для</u> електромобілів.

Більше практики та прикладів розрахунків.

Course «Energy-saving technologies in transport»

What did you like in the course?

Чим вам сподобався цей курс?

Full of topics that were studied.

Vec

During the course, enough practical classes are provided, so the material is well absorbed.

Topic 3 Energy-efficient technologies in transport and its infrastructure.

Yes, a very rich and interesting course with various illustrations and videos.

Learned what microhybrid type and medium hybrid type are and how they are used.

Interesting course.

The course is well structured, the information is accessible and understandable.

The course follows the trend of innovations in transport.

The course is easy to understand.

Повнотою тем, що вивчались.

Так.

Протягом курсу надається достатньо практичних занять, тому матеріал гарно засвоюються.

Project: Development of practically-oriented student-centred education in the

field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



Тема 3 Енергоефективні технології на транспорті та його інфраструктура.

Так, дуже насичений та цікавий курс з різними ілюстраціями та відео.

Дізнався що таке мікрогібридний тип та середній тип гібриду і як їх використовують.

Цікавий курс.

Курс добре структурований, інформація доступна і зрозуміла.

Курс йде в тренді інновацій на транспорті.

Курс простий у розумінні.

Outline 3 points you would like to take with you/have learnt in this class

Виділіть найбільш значущі з Вашого погляду знання, які Ви придбали на цих заняттях

Solar charging power stations for the infrastructure of automobile electric transport.

Knowledge of energy conservation, working with modern technologies, saving methods and their implementation.

Transmission and transformation of energy in electrical systems of electric vehicles; power supply and charging systems for automobile electric transport.

Calculation of the economic impact of the use of electric vehicles.

All basic knowledge that will be useful in the future.

Hybrid technologies in vehicles.

Energy-saving technologies used in transport.

Learned more about energy-saving technologies on vehicles.

Knowledge of hybrid power plants on vehicles.

Systematics of electric road transport.

<u>Сонячні зарядні електростанції для інфраструктури автомобільного електротранспорту.</u> Знання про енергетичне збереження, робота з сучасними технологіями, методи економії та їх

впровадження.

<u>Передача та перетворення енергії в електричних системах АТЗ; системи живлення та поповнення заряду для автомобільного електротранспорту.</u>

<u>Розрахунок економічного впливу використання електричних АТЗ.</u>

Усі базові знання, які стануть у нагоді в майбутньому.

Гібридні технології в автотранспорті.

Енергозберігаючі технології які застосовують на транспорті.

Більше дізнався про енергозберігаючі технології на транспортних засобах.

Знання щодо гібридних силових установок на транспорті.

Систематика електричного автомобільного транспорту.

Do you have any suggestions for further improvement of the course? (If so, please give details and if you would like to be contacted about this idea please include your email address)

Чи є у вас якісь пропозиції щодо подальшого вдосконалення курсу? (Якщо так, то прохання уточнити, і якщо ви хочете, щоб з Вами зв'язалися з цього питання, будь ласка, вкажіть адресу своєї електронної пошти)

I have no offers.

Invite representatives of enterprises that operate electric vehicles to conduct classes.

No, everything is great.

Practice on different cars with different types of hybrid installations.

Everything is Ok.

There is none.

You can insert the calculation principles of hybrid power plants on vehicles.

Add areas of application of energy-saving technologies that go beyond transport

Пропозицій не маю.

Project: Development of practically-oriented student-centred education in the

field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



Запросити до ведення занять представників підприємств, що експлуатують електротранспорт. Ні, все чудово.

Практика на різних автомобілях з різними типами гібридних установок.

<u>Все ок.</u> Немає.

Можна вставити принципи розрахунку гібридних силових установок на транспорті.

Додати області застосування енергозберігаючих технологій що виходять за межі транспорту.

Course «Intelligent information technologies and systems in transport»

What did you like in the course?

Чим вам сподобався цей курс?

Presentation of material in a form accessible for perception.

Provides knowledge in the field of intelligent technologies and vehicles.

The training format was very convenient. The course is interesting and useful. Successfully selected tasks.

Acquiring knowledge about intelligent technologies and their application in transport.

Audio-visual materials were used effectively.

Interesting, relevant, useful.

Interesting course.

Provides knowledge in the field of intelligent technologies and vehicles.

The course is relevant.

Principles of development of intelligent systems in transport.

Подача матеріалу у формі доступній для сприйняття.

Надає знання в області інтелектуальних технологій та транспортних засобів.

Був дуже зручний формат навчання. Курс цікавий та корисний. Вдало підібрані завдання.

Набуття знань щодо інтелектуальних технологій та їх застосування на транспорті.

Ефективно використовувалися аудіо-візуальні матеріали.

Цікаво, актуально, корисно.

Шікавий курс.

Надає знання в області інтелектуальних технологій та транспортних засобів.

Курс ϵ актуальним.

Принципи розбудови інтелектуальних систем на транспорті.

Outline 3 points you would like to take with you/have learnt in this class

Виділіть найбільш значущі з Вашого погляду знання, які Ви придбали на цих заняттях

Information about a large number of the latest intelligent systems used in cars.

The basics of the theory of intellectual information technologies, knowledge for practical activities, systems of electric cars and hybrid cars.

The entire range of issues on this topic is covered.

What are intelligent technologies in the car and how do they help the driver.

Learned more about transport systems.

Use of Intelligent information technologies in transport.

Information technologies in transport.

The basics of the theory of intellectual information technologies, knowledge for practical activities, systems of electric cars and hybrid cars.

Basics of developing intelligent systems in transport.

Vehicle monitoring system.

<u>Інформація про велику кількість новітніх інтелектуальних систем, що використовуються в автомобілях.</u>

Основи теорії інтелектуальних інформаційних технологій, знання для практичної діяльності,

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системи електромобілів та гібридних автомобілів.

Охоплено весь спектр питань з даної тематики.

Що таке інтелектуальні технології в автомобілі і як вони допомагають водію.

Більше дізнався про системи транспорту.

Використання Intelligent information technologies in transport.

Інформаційні технології на транспорті.

Основи теорії інтелектуальних інформаційних технологій, знання для практичної діяльності,

системи електромобілів та гібридних автомобілів.

Основи розбудови інтелектуальних систем на транспорті.

Система моніторингу транспортних засобів.

Do you have any suggestions for further improvement of the course? (If so, please give details and if you would like to be contacted about this idea please include your email address)

Чи ϵ у вас якісь пропозиції щодо подальшого вдосконалення курсу? (Якщо так, то прохання уточнити, і якщо ви хочете, щоб з Вами зв'язалися з цього питання, будь ласка, вкажіть адресу своєї електронної пошти)

I wish there were more practical classes.

Everything is Ok.

There is none.

More practice.

Add more lab and practical classes on real cars.

Хотілось би, щоб було більше практичних занять.

Все ок.

Немає.

Більше практики.

Додати більше Л.р. та П.з. на реальних автомобілях.

Course «The structure of hybrid and electric vehicles»

What did you like in the course?

Чим вам сподобався цей курс?

A large number of video materials that cover all the topics of the course and allow you to better master the material.

Provides knowledge in the field of structure of hybrids and electric vehicles.

The theoretical material is thoroughly explained, interesting practical classes.

Gained knowledge about structures and construction schemes of hybrid cars and electric cars.

Availability of material, selection of pictures and videos.

How to build an electric car. Principles of construction.

Electric cars, hybrids, their structure and construction principles.

The course was well structured and the information was clear and accessible.

Current topics, methods of teaching the material, attitude of the teacher.

The course is easy to understand.

<u>Велика кількість відеоматеріалів, що покривають всі теми курсу і дозволяють краще опанувати</u> матеріал.

Надає знання в області структури гібридів та електромобілів.

Досконало викладено теоретичний матеріал, цікаві практичні заняття.

Отримано знання щодо конструкцій та схем побудови гібридних автомобілів та електромобілів.

Доступність матеріалу, підбір картинок та відео.

<u>Як можна побудувати електромобіль. Принципи побудови.</u>

Електромобілі, гібриди, їх структура та принципи побудови.

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Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

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<u>Курс був добре структурованим та інформація була ясною та доступною.</u> <u>Актуальна тематика, методика викладання матеріалу, відношення викладача.</u> Курс простий у розумінні.

Outline 3 points you would like to take with you/have learnt in this class

Виділіть найбільш значущі з Вашого погляду знання, які Ви придбали на цих заняттях

I gained both a broad general understanding of the structure of electric vehicles and their constituent elements.

The structure of hybrids and electric vehicles, knowledge of working with these systems.

Electric power plant of an electric vehicle; electric chargers.

Calculation of battery capacity for energy storage systems.

Learned about the structure of hybrid and electric vehicles.

Calculation of the electric motor and battery for an electric car.

Economic effect. Calculation, approach to reasonable economic use of cars.

Learned more about hybrid and electric vehicles.

Principles of building an electric and hybrid platform for motor vehicles.

Diagnostics of an electric car using a mobile application.

Я отримав як широке загальне розуміння будови електромобілів, так і їх складових елементів.

Структура гібридів та електромобілів, знання щодо роботи з даними системами.

Електрична силова установка електромобіля; електричні зарядні установки.

Розрахунок ємності акумуляторних батарей для систем накопичення енергії.

Дізнався про будову гібридних та електричних ТЗ.

Розрахунок електродвигуна і батареї для електромобіля.

Економічний ефект. Розрахунок, підхід до розумного економічного використання автомобілів.

Дізнався більше про гібридні та електричні транспортні засоби

Принципи побудови електричної і гібридної платформи для автотранспорту.

Діагностика електромобіля за допомогою мобільного застосунку.

Do you have any suggestions for further improvement of the course? (If so, please give details and if you would like to be contacted about this idea please include your email address)

Чи є у вас якісь пропозиції щодо подальшого вдосконалення курсу? (Якщо так, то прохання уточнити, і якщо ви хочете, щоб з Вами зв'язалися з цього питання, будь ласка, вкажіть адресу своєї електронної пошти)

I think that an increase in practical classes would improve this course.

There are no offers.

It is advisable to organize excursions to electric transport exhibitions.

More practice and laboratory classes.

Everything is Ok.

There is none.

More practical and laboratory classes.

Я думаю, що збільшення практичних занять дозволило б покращити даний курс.

 Π ропозицій нема ϵ .

Бажано організувати екскурсії на виставки електротранспорту.

Більше практики і лабораторних занять.

Все ок.

Немає.

Більше практичних та лабораторних занять.

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CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



.....

If you do not mind, please could you give us some additional more information about yourself

Чи можна дізнатися більше інформації про вас?

Gender: Male/Female/Prefer not to specify

Age: 16-21 <u>22-30</u> 31-40 41-50 51-60 61+

Status: Home Student EU Student International Student

The results of processing the questionnaires of teachers

Professor Andrii Hnatov

Course «Electric systems of environmentally friendly vehicles»

- 1. Why do you think this course is important? (У чому, на вашу думку, важливість цього курсу?)
- 1. Acquisition of theoretical knowledge and practical skills in determining the economic and environmental impact of cars.
- 2. Acquiring skills in the basics of calculating current converters for electric vehicles and electricity storage systems.
- 1. Придбання теоретичних знань та практичних навичок щодо визначення економічного та екологічного впливу AT3.
- 2. Придбання навичок з основ розрахунку перетворювачів струму для електричного автотранспорту та систем накопичення електроенергії.
- 2. Point out a few basic things that you consider most important in mastering from this course. (Укажіть кілька основних пунктів, які ви вважаєте найважливішими для засвоєння цього курсу?)
- 1. Demonstrate the ability to clearly and unambiguously convey one's own conclusions on the problems of creating, operating and repairing electric vehicles and energy-saving technologies, as well as the knowledge and explanations that substantiate them, to specialists and non-specialists, in particular, to persons who are studying.
- 2. To be able to evaluate the significance of the results of complex engineering activities in the field of power engineering, electrical engineering and electro mechanics, in particular, electric vehicles and energy-saving technologies.
- 3. Demonstrate the ability to further study in the field of electrical power, electrical engineering and electro mechanics, engineering and related fields of knowledge, which is largely autonomous and independent.
- 1. Демонструвати здатність зрозуміло і недвозначно доносити власні висновки з проблем створення, експлуатації та ремонту електромобілів та енергозберігаючих технологій, а також знання та пояснення, що їх обґрунтовують, до фахівців і нефахівців, зокрема, до осіб, які навчаються.
- 2. Вміти оцінювати значущість результатів комплексної інженерної діяльності в сфері електроенергетики, електротехніки та електромеханіки, зокрема, електромобілів та енергозберігаючих технологій.
- 3. Демонструвати здатність до подальшого навчання у сфері електроенергетики, електротехніки та електромеханіки, інженерії та суміжних галузей знань, яке значною мірою ϵ автономним та самостійним.
- 3. Do you have any suggestions for further improvement of the course? (Чи є у вас пропозиції щодо подальшого вдосконалення курсу?)

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field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



There is none.

Немає.

Course «Energy-saving technologies in transport»

- 1. Why do you think this course is important? (У чому, на вашу думку, важливість цього курсу?)
- 1. Formation of students' knowledge, skills and ideas on the basics and principles of building energy-saving technologies in transport.
- 2. To be able to find optimal solutions when creating products of electric vehicles and energy-saving technologies, taking into account the requirements of quality, reliability, energy efficiency, life safety, cost and deadlines.
- 3. Demonstrate the ability to further study in the field of electrical power, electrical engineering and electromechanics, engineering and related fields of knowledge, which is largely autonomous and independent.
- 1. Формування у студентів сукупності знань, вмінь і уявлень з основ та принципів побудови енергозберігаючих технологій на транспорті.
- 2. Вміти знаходити оптимальні рішення при створенні продукції електромобілів та енергозберігаючих технологій з урахуванням вимог якості, надійності, енергоефективності, безпеки життєдіяльності, вартості та строків виконання.
- 3. Демонструвати здатність до подальшого навчання у сфері електроенергетики, електротехніки та електромеханіки, інженерії та суміжних галузей знань, яке значною мірою ϵ автономним та самостійним.
 - 2. Point out a few basic things that you consider most important in mastering from this course. (Укажіть кілька основних пунктів, які ви вважаєте найважливішими для засвоєння цього курсу?)
- 1. Demonstrate the ability to conduct research and/or innovation activities in the creation, operation and repair of electric vehicles and energy-saving technologies.
- 2. To be able to find optimal solutions when creating products of electric vehicles and energy-saving technologies, taking into account the requirements of quality, reliability, energy efficiency, life safety, cost and deadlines.
- 3. To identify the main factors and technical problems that may interfere with the implementation of modern methods of controlling electric power, electrotechnical and electromechanical systems.
- 1. Демонструвати здатність проводити дослідницьку та/або інноваційну діяльність у створенні, експлуатації та ремонті електромобілів та енергозберігаючих технологій.
- 2. Вміти знаходити оптимальні рішення при створенні продукції електромобілів та енергозберігаючих технологій з урахуванням вимог якості, надійності, енергоефективності, безпеки життєдіяльності, вартості та строків виконання.
- 3. Виявляти основні чинники та технічні проблеми, що можуть заважати впровадженню сучасних методів керування електроенергетичними, електротехнічними та електромеханічними системами.
 - 3. Do you have any suggestions for further improvement of the course? (Чи ϵ у вас пропозиції щодо подальшого вдосконалення курсу?)

There is none.

Немає.

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Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

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Course «The structure of hybrid and electric vehicles»

- 1. Why do you think this course is important? (У чому, на вашу думку, важливість цього курсу?)
- 1. Formation of students' knowledge, skills and ideas on the basics and principles of building hybrid cars and electric cars.
- 2. Acquisition of theoretical knowledge regarding the retrospective development of electric road transport.
- 1. Формування у студентів сукупності знань, вмінь і уявлень з основ та принципів побудови гібридних автомобілів і електромобілів.
- 2. Придбання теоретичних знань щодо ретроспективи розвитку електричного автомобільного транспорту.
 - 2. Point out a few basic things that you consider most important in mastering from this course. (Укажіть кілька основних пунктів, які ви вважаєте найважливішими для засвоєння цього курсу?)
- 1. Be able to set, research, analyze and solve complex engineering tasks and problems in the field of electric power, electrical engineering and electromechanics, in particular, electric cars and energy-saving technologies, which requires updating and integration of knowledge, including in conditions of incomplete/insufficient information and contradictory requirements
- 2. To be able to propose new technical solutions and apply new technologies.
- 3. To be able to carry out technical and economic calculations, comparison and substantiation of the processes of design, construction, production, repair, renovation, operation of objects of electric power, electrical engineering and electromechanics, in particular, electric cars and energy-saving technologies.
- 1. Вміти ставити, досліджувати, аналізувати і розв'язувати складні інженерні завдання і проблеми у сфері електроенергетики, електротехніки та електромеханіки, зокрема, електромобілів та енергозберігаючих технологій, що потребує оновлення та інтеграції знань, у тому числі в умовах неповної/недостатньої інформації та суперечливих вимог.
- 2. Вміти пропонувати нові технічні рішення і застосовувати нові технології.
- 3. Вміти проводити техніко-економічні розрахунки, порівняння та обґрунтування процесів проектування, конструювання, виробництва, ремонту, реновації, експлуатації об'єктів електроенергетики, електротехніки та електромеханіки, зокрема, електромобілів та енергозберігаючих технологій.
 - 3. Do you have any suggestions for further improvement of the course? (Чи є у вас пропозиції щодо подальшого вдосконалення курсу?)

 There is none. *Немає*.

Professor Shchasiana Arhun

4. Why do you think this course is important? (У чому, на вашу думку, важливість цього курсу?) The importance is that students learn to apply progressive methods and technologies, modify existing and develop new methods and/or tasks, implement measures to improve the quality and efficiency of professional tasks.

Важливість у тому, що студенти вчяться застосовувати прогресивні методи і технології, модифікувати існуючі та розробляти нові методи та/або завдання, здійснювати заходи для підвищення якості та ефективності виконання професійних завдань.

5. Point out a few basic things that you consider most important in mastering from this course. (Укажіть кілька основних пунктів, які ви вважаєте найважливішими для засвоєння цього курсу?)

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field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

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- Ability to conduct research at the appropriate level.
- Ability to search, process and analyze information from various sources using modern information and communication technologies.
- Ability to perform research work with elements of scientific novelty.
- Ability to apply interdisciplinary approaches in critical thinking of problems.
- Здатність до проведення досліджень на відповідному рівні.
- Здатність до пошуку, обробки та аналізу інформації з різних джерел за допомогою сучасних інформаційних та комунікаційних технологій.
- Здатність до виконання дослідницької роботи з елементами наукової новизни.
- Здатність застосовувати міждисциплінарні підходи при критичному осмисленні проблем.
- 6. Do you have any suggestions for further improvement of the course? (Чи є у вас пропозиції щодо подальшого вдосконалення курсу?)

 Increase and improvement of practical tasks.

Збільшення і удосконалення практичних завдань.

6. Annexes:

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Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.

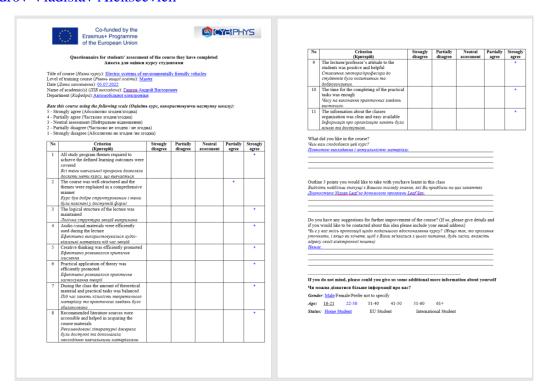


Annex 1

Annex 2

The copies of filled Training Evaluation Sheets of Masters students of KhNAHU

Alexandrov Vladislav Alekseevich

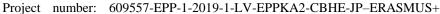


	Questionnaire for students' assessmen Анкета для оцінки			completed		
Title o	of course (Назва курсу): Energy-saving techno of training course (Рівень вищої освіти): Ma	logies in tra	nsport			
	Дата заповнення): 05.07.2022	SUCI				
	of academic(s) (IIIE викладача): Гнагов Анг	рій Вікторо	вич			
	tment (Кафедра): Автомобільної електронік					
Rate t	his course using the following scale (Ouinim	курс, вико	ристовуючі	наступну ш	калу):	
	ongly agree (Абсолютно згоден/згодна)					
	rtially agree (Частково згоден/згодна)					
	utral assessment (Нейтральне відношення)					
	rtially disagree (Частково не згоден / не згод ongly disagree (Абсолютно не згоден /не зго					
1 - Su	ongry disagree (Aoconorno ne stogen ne st	дна)				
No	Criterion (Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Stro
1	All study program themes required to					1
	achieve the defined learning outcomes were covered					
	Всі теми навчальної програми дозволяли					
	дся теми навчальное програми оозволяли досягти мети курсу, що вивчасться					
2	The course was well-structured and the					-
~	themes were explained in a comprehensive					'
	manner					
	Курс був добре структурованим і теми					
	були пояснені у доступній формі					
3	The logical structure of the lecture was					•
	maintained					
-	Логічна структура лекцій витримана				_	_
4	Audio-visual materials were efficiently used during the lecture					١ '
	used during the lecture Ефективно використовувалися аудіо-					
	візуальні матеріали під час лекцій					
5	Creative thinking was efficiently promoted				+	
-	Ефективно розвивалося критичне				Ι.	
	мисления					
6	Practical application of theory was				+	
	efficiently promoted					
	Ефективно розвивалося практичне					
-	застосування творії		_		-	<u> </u>
7	During the class the amount of theoretical material and practical tasks was balanced					١ '
	material and practical tasks was balanced Під час занять кількість теоретичного					
	матеріалу та практичних завдань було					
	збазансовано					
8	Recommended literature sources were					-
	accessible and helped in acquiring the					
	course materials					
	Рекомендовані літературні джерела					
	були доступні та допомагали					
	оволодінню навчальними матеріалами		1			

No	Criterion (Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Strong
9	The lecturer/professor's attitude to the students was positive and helpful Ставления лектора/професора до студентів було позитивним та					•
10	доброзичливим. The time for the completing of the practical tasks was enough Часу на виконання практичних завдань выстачило.					+
11	The information about the classes organisation was clear and easy available Інформація про організацію занять була ясною та доступною.					+
=	отою тем, що вичались.					
	ne 3 points you would like to take with you/hav					
	ііть найбільш значущі з Вашого погляду знаг чні зарядні електростанції для інфраструкі					
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Project: Development of practically-oriented student-centred education in the

field of modelling of Cyber-Physical Systems, CybPhys.

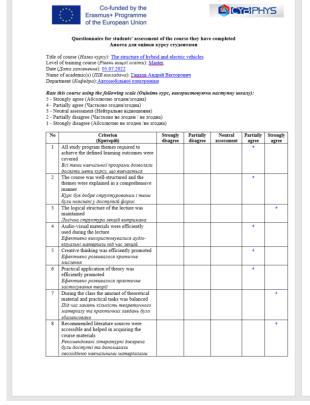


CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



	of the European Union						No	0	Criterion	Strongly	Partially	Neut
	Questionnaire for students' assessmen Анкета для оцінки з			completed			9	The lects	(Критерій) rer/professor's attitude to the	disagree	disagree	assess
								students	was positive and helpful			
	of course (Hassa xypcy): Intelligent informatio		es and system	is in transport					ня лектора/професора до не було позитивним та			
	l of training course (Рівень вищої освіти): <u>Ма</u> (Дата заповнення): 05.07.2022	MCL.						добрози				
ame	e of academic(s) (ПІБ викладача): Аргун Шас		Ha.				10	0 The time	for the completing of the practica			
)epa	rtment (Кафедра): Автомобільної електронік	H						tasks wa	s enough виконання практичних завдань			
ate	this course using the following scale (Ouinim	KVDC. 6UKO	ристовуюча	наступну ш	cary):			вистачи				
- St	rongly agree (Абсолютно згоден/згодна)						17		mation about the classes			
	artially agree (Частково згоден/згодна) eutral assessment (Нейтральне відношення)								ion was clear and easy available шія про організацію занять було			
	eutral assessment (глеитральне відношення) utially disagree (Частково не згоден / не згод	на)							ція про організацію занять оуло а доступною.			
	rongly disagree (Абсолютно не згоден /не зго						_					
No	Criterion	Strongly	Partially	Neutral	Partially	Strongly			te in the course? бався ией курс?			
.10	(Критерій)	disagree	disagree	assessment	agree	agree			лився цви курс: алу у формі доступній для спри	іняття.		
1	All study program themes required to				+		_					
	achieve the defined learning outcomes were covered						_					
	Всі теми навчальної програми дозволяли						_					
	досягти мети курсу, що вивчається											
	The course was well-structured and the				+				you would like to take with you/h	ave learnt in the	is class	
2												
2	themes were explained in a comprehensive						Вид	Эіліть найбі	тьш значущі з Вашого погляду зг	ання, які Виз	ридбали на :	
2	themes were explained in a comprehensive manner						Вид <u>Інф</u>	эіліть найбі ормація про		ання, які Виз	ридбали на :	
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No	Criterion (Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Strongly agree
9	The lecturer/professor's attitude to the					+
	students was positive and helpful					
	Ставлення лектора/професора до					
	студентів було позитивним та					
	доброзичливим.					
10	The time for the completing of the practical					+
	tasks was enough					
	Часу на виконання практичних завдань					
	The information about the classes				+	
11	organisation was clear and easy available				, t	
	Інформація про організацію занять була					
	лиформація про організацію занять оула ясною та доступною.					
ин в	did you like in the course? зам сподобався цей курс?					
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Project: Development of practically-oriented student-centred education in the

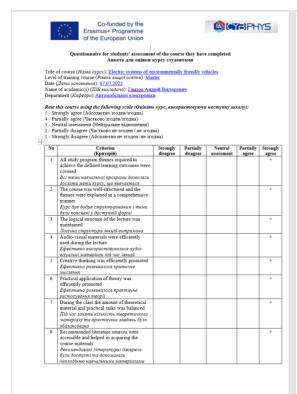
field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

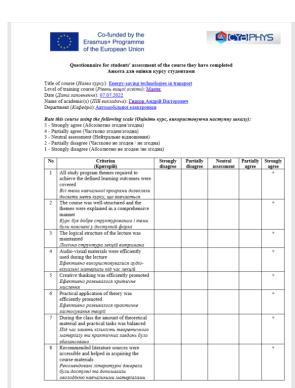
CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



Alekseychuk Denis Ivanovich



9	(Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Strongly agree
- 1	The lecturer/professor's attitude to the	unagree	usugree	assessment	agree	+
- 1	students was positive and helpful					
	Ставлення лектора/професора до					
	студентів було позитивним та доброзичливим.					
10	The time for the completing of the practical					+
	tasks was enough					
	Часу на виконання практичних завдань					
	вистачило.				_	
11	The information about the classes organisation was clear and easy available					+
	Інформація про організацію занять була					
	ясною та доступною.					
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	и з електромобілями			огічні аспекті	<u> </u>	
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No	Criterion (Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Strongly agree
9	The lecturer/professor's attitude to the					+
	students was positive and helpful					
	Ставлення лектора/професора до					
	студентів було позитивним та					
	доброзичливим.					
10	The time for the completing of the practical					+
	tasks was enough					
	Часу на виконання практичних завдань					
	вистачило.					
11	The information about the classes					+
	organisation was clear and easy available					
	Інформація про організацію занять була					
	ясною та доступною.					
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	ам сподобався ией курс?					
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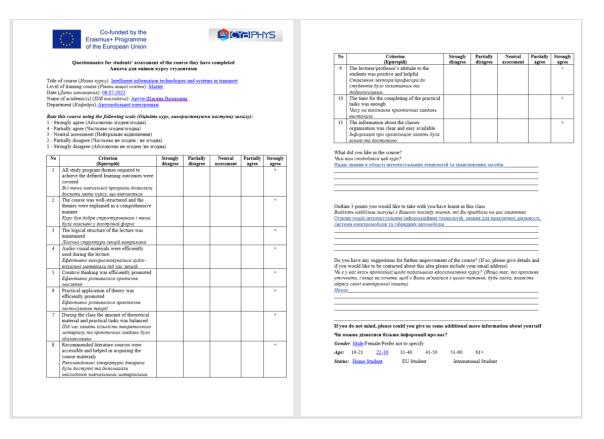
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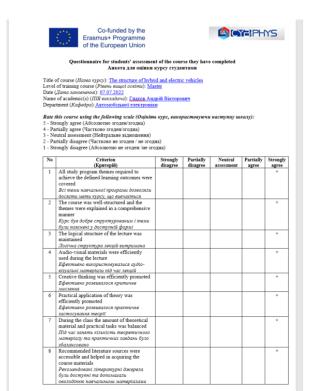
field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



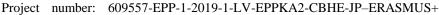




No	Criterion (Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Strongly agree
9	The lecturer/professor's attitude to the students was positive and helpful Cmasnensa nexmopa/npoфecopa do студентів було позитивним та					+
	доброзичливим.					
10	The time for the completing of the practical					+
	tasks was enough					
	Часу на виконання практичних завдань вистачило.					
11	The information about the classes					+
	organisation was clear and easy available					
	Інформація про організацію занять була					
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Project: Development of practically-oriented student-centred education in the

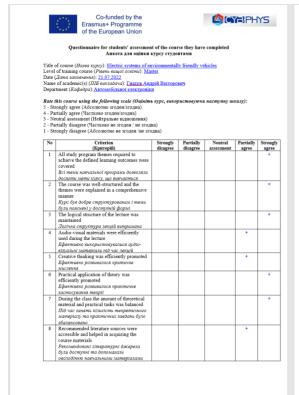
field of modelling of Cyber-Physical Systems, CybPhys.



CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022



Buchachenko Alexander Sergeevich



No	Criterion (Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Strongly agree
9	The lecturer/professor's attitude to the students was positive and helpful Ставления лектора/професора до					+
	студентів було позитивним та доброзичливим.					
10	The time for the completing of the practical					+
	tasks was enough					
	Часу на виконання практичних завдань					
	вистачило.					
11	The information about the classes				+	
	organisation was clear and easy available					
	Інформація про організацію занять була					
	ясною та доступною.					
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No	Criterion (Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Strongly agree
1	All study program themes required to achieve the defined learning outcomes were					+
	covered					
	Всі теми навчальної програми дозволяли					
	досягти мети курсу, що вивчасться					
2	The course was well-structured and the					
	themes were explained in a comprehensive					
	manner					
	Курс був добре структурованим і теми					
	були пояснені у доступній формі					
3	The logical structure of the lecture was maintained					+
	Логічна структура лекцій витримана					
4	Audio-visual materials were efficiently					-
7	used during the lecture					
	Ефективно використовувалися аудіо-					
	візуальні матеріали під час лекиій					
5	Creative thinking was efficiently promoted					+
-	Ефективно розвивалося критичне					
	мисления					
6	Practical application of theory was					+
	efficiently promoted					
	Ефективно розвивалося практичне					
	застосування теорії					
7	During the class the amount of theoretical					+
	material and practical tasks was balanced					
	Під час занять кількість теоретичного					
	матеріалу та практичних завдань було					
	збалансовано					
8	Recommended literature sources were					+
	accessible and helped in acquiring the					
	course materials					
	Рекомендовані літературні джерела					
	були доступні та допомагали					
	оволодінню навчальними матеріалами				1	

No	Criterion (Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Strongly agree
9	The lecturer/professor's attitude to the students was positive and helpful Ставления лектора/професора до студентіе було позитивним та доброзистивним.					+
10	The time for the completing of the practical tasks was enough Yacy на виконання практичних завдань вистачило.					+
11	The information about the classes organisation was clear and easy available Інформація про організацію занять була ясною та доступною.					+

Outline 3 points you would like to take with you have learnt in this class Вистим, набольки этогура 18 висто посляду писим, як Вы придобаты на цис заимениях Передоча то перевноровких венедуателистик системых АТЭ, системы эсикановкия положениях зациял) сих венеционального высопротраментория».

Do you have any suggestions for further improvement of the course? (If so, please give details and if you would like to be contacted about this idea please include your email address).

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If you do not mind, please could you give us some additional more information about yourself

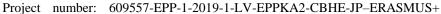
Gender: Male/Female/Prefer not to specify

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 Age:
 16-21
 22-30
 31-40
 41-5

 Status:
 Home Student
 EU Student

Project: Development of practically-oriented student-centred education in the

field of modelling of Cyber-Physical Systems, CybPhys.

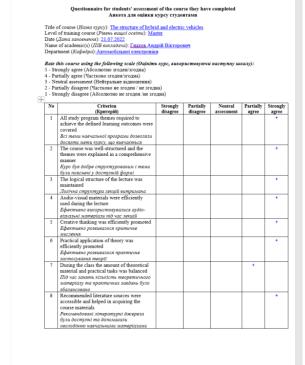


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	Questionnaire for students' assessmen	t of the com	re they have	completed			No		erion repiñ)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	1
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Name	(Дата заповнення): 21.07.2022 e of academic(s) (ПІБ викладача): Аргун Шас artment (Кафедра): Автомобільної електронік		Ba.				10	The time for the com tasks was enough	pleting of the practical					+
-								Часу на виконання з	рактичних завдань					
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1 - St	trongly disagree (Абсолютно не згоден /не эго	дна)					Wh:	t did you like in the cou	rse?					
No		Strongly	Partially	Neutral	Partially	Strongly	Чин	вам сподобався цей хз	pc?					
1	(Критерій) All study program themes required to achieve the defined learning outcomes were	disagree	disagree	assessment	agree	agree +	<u>D)a</u>	дуже зручний формат	навчання. Курс цікави	й та корисн	ий. Вдало пі	дібрані завда	OLR.	
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2	досягти мети курсу, що вивчається The course was well-structured and the					+	Out	ine 3 points you would !	ika ta taka mith wan/hana	n learnt in th	is alone			
-	themes were explained in a comprehensive manner Курс був добре структурованим 1 теми						Вид	ие з роши учи жачущ плено весь спектр пит	з Вашого погляду зна	ння, які Ви п		цих заняттях	_	
3	були пояснені у доступній формі The logical structure of the lecture was maintained				+		=							
	Логічна структура лекцій витримана							ou have any suggestion					ls and	
4	Audio-visual materials were efficiently used during the lecture <u>Eфективно</u> використовувалися аудіо-					•	Чи е ymo	u would like to be conta : у вас якісь пропозиції чнити, і якщо ви хочет	щодо подальшого вдо: е, щоб з Вами зв'язали	сконалення к	урсу? (Якщі	так, то проз		
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-	Ефективно розвивалося критичне						7011	LIOCE DE, 1400 DE 10 DE 16	ше практичних заюнт	ь.				
5	мислення				+		_						_	
5	Practical application of theory was efficiently promoted						If ye	u do not mind please			nore inform	ation about ye	urself	
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	(Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Stron
9	The lecturer/professor's attitude to the students was positive and helpful Ставления лектора/професора до					+
	студентів було позитивним та доброзичливим.					
10	The time for the completing of the practical tasks was enough					+
	Часу на виконання практичних завдань вистачило.					
11	The information about the classes					+
	organisation was clear and easy available Інформація про організацію занять була					
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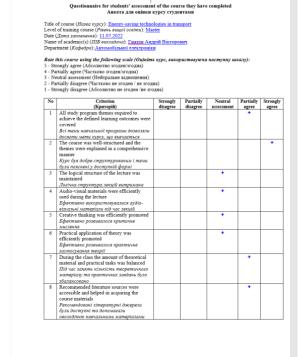


Volobueva Irina Andreevna



△INTERPHYS

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	students was positive and helpful					
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- 1	студентів було позитивним та					
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	tasks was enough					
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Co-funded by the Erasmus+ Programme of the European Union

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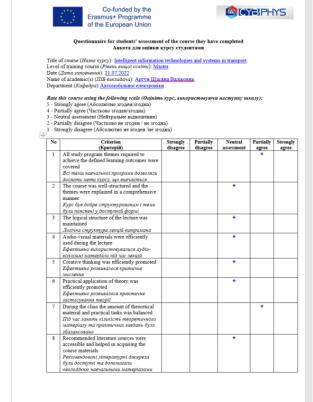
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9	The lecturer/professor's attitude to the				+	
	students was positive and helpful					
	Ставлення лектора/професора до студентів було позитивним та					
	доброзичливим.					
10	The time for the completing of the practical			+		
	tasks was enough					
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No	Criterion (Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Strongly agree
1	All study program themes required to achieve the defined learning outcomes were covered				+	
	Всі теми навчальної програми дозволяли					
	досягти мети курсу, що вивчається					
2	The course was well-structured and the themes were explained in a comprehensive manner Kypc буе добре структурованим 1 теми були поясмен у доступний форм!				•	
3	The logical structure of the lecture was maintained					+
4	Логічна структура лекцій витримана Audio-visual materials were efficiently			-		
4	used during the lecture					
	Ефективно використовувалися аудіо-					
_	візуальні матеріали під час лекцій					
5	Creative thinking was efficiently promoted Ефективно розвивалося критичне мисления			•		
6	Practical application of theory was efficiently promoted Ефективно розвивалося практичне застосчвания теорії				*	
7	During the class the amount of theoretical material and practical tasks was balanced Iliò час занять кількість теоретичного матеріалу та практичних заедань було збалансовано					•
8	Recommended literature sources were accessible and helped in acquiring the course materials Рекомендовані літературні джерела були доступні та допомагали осолодінно навчальними матеріалами				+	

No	Criterion (Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Strongly
9	The lecturer/professor's attitude to the students was positive and helpful Ставления лектора/професора до студентіе було позитивним та доброзичливним.				+	
10	The time for the completing of the practical tasks was enough Часу на виконання практичних завдань вистачило.			•		
11	The information about the classes organisation was clear and easy available Інформація про організацію занять була ясною та доступною.					+

Чим вам сподобаеся цей курс?
Отримано знания шодо конструкцій та скем побудови гібридних автомобілів та електромобілів.

Outline 3 points you would like to take with you have learnt in this class Видлітнь найбільш энскуції з Вашого погляду знання, які Ви придбали на цах занятитях Розрахунок емності акумуляторних батарей для систем накопичения енергії.

Do you have any suggestions for further improvement of the course? (If so, please give details and if you would like to be contacted about this idea please include you email address). We say sax facts proporting time of modistumous obscorrancess Kypy? (Factus max. mo reprisenses ymovamms, I stuge ou vorwene, upo? 3 Batus se'ssatucts a space numanos, dysb sacro, excaceims adopts; cosed sacropomont numany. Basicano operative numanos, style sacro, excaceims adopts; cosed sacropomont numany.

If you do not mind, please could you give us some additional more information about yourself Чи можна дізнатися більше інформації про вас?

 Gender:
 Male Female Prefer not to specify

 Age:
 16-21
 22-30
 31-40
 41-50
 51-60
 61+

 Status:
 Home Student
 EU Student
 International Student

Project: Development of practically-oriented student-centred education in the

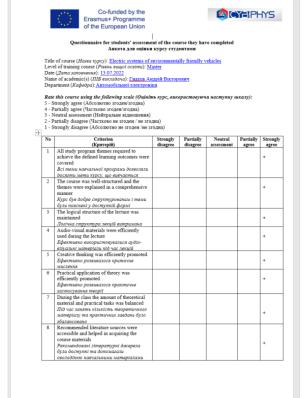
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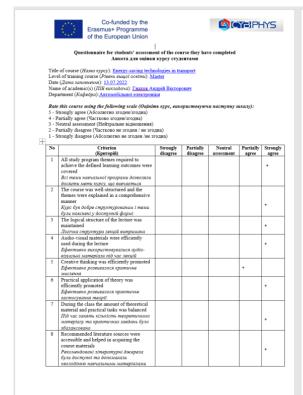
CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



Dyomin Stanislav Yevhenovich



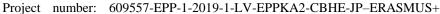
No	Criterion	Strongly disagree	Partially disagree	Neutral assessment	Partially	Strongly
9	(Kpurepili) The lecturer/professor's attitude to the	disagree	disagree	assessment	agree	agree
1	students was positive and helpful					
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Project: Development of practically-oriented student-centred education in the

field of modelling of Cyber-Physical Systems, CybPhys.



CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022



	Ouestionnaire for students' assessme	 =1 =51b= ===	was then have	mnleted			No	Criterion (Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	St 2
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	achieve the defined learning outcomes were covered					+	_						
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2	The course was well-structured and the												
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Questionnaire for students' assessment of the course they have completed Анкета для оцінки курсу студентами

Title of course (Hanea xypcy): The structure of hybrid and electric vehicles Level of training course (Peens assur) coetimu): Master Date (Jama stanoesean): 13.0 2020. [Liston August Bistroposiusy Name of academic(s) (JIII 8 sucradova): Liston August Bistroposiusy Department (Kadydopol): Astronoscilation (coextroposius)

Rate this course using the following scale (Outhims type, використвовуючи наступку шкалу):

5- Strongly agree (Абсолютно толені тодзя)

5- Strongly agree (Абсолютно толені тодзя)

3- Neutral assessment (Heitypanine відновення)

2- Partially disagree (Частково толені тодзя)

1- Strongly disagree (Абсолютно ві тодян іне тодзя)

No	Criterion (Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Strongly
1	All study program themes required to achieve the defined learning outcomes were covered	_	_			
	Всі теми навчальної програми дозволяли					+
2	досягти мети курсу, що вивчасться The course was well-structured and the					
2	themes were explained in a comprehensive					
	Курс був добре структурованим і теми були пояснені у доступній формі					+
3	The logical structure of the lecture was maintained					+
	Логічна структура лекцій витримана					
4	Audio-visual materials were efficiently used during the lecture					+
	Ефективно використовувалися аудіо- візуальні матеріали під час лекцій					
5	Creative thinking was efficiently promoted Ефективно розвивалося критичне мисления					+
6	Practical application of theory was efficiently promoted					+
	Ефективно розвивалося практичне застосування теорії					
7	During the class the amount of theoretical material and practical tasks was balanced					
	Під час занять кількість теоретичного матеріалу та практичних завдань було					+
8	збалансовано Recommended literature sources were					
8	accessible and helped in acquiring the					
	Рекомендовані літературні джерела					+
	були доступні та допомагали оволодінню навчальними матеріалами					

No	Criterion (Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Strongly agree
9	The lecturer/professor's attitude to the students was positive and helpful Ставления лектора/професора до студентів було позитивним та					+
10	доброзичливим. The time for the completing of the practical tasks was enough Часу на виконання практичних завдань вистачило.					+
11	The information about the classes organisation was clear and easy available Інформація про організацію занять була ясною та доступною.					+

What did you like in the course?
Чим вам сподобався цей курс?
Доступність матеріалу, підбір картинок та відео

Outline 3 points you would like to take with you/have learnt in this class Bubilims найбітым эначуци з Вашого посляду знання, які Ви придбали на цах заняя Дізнявся про будову гібридних та спектричник ТЗ

Do you have any suggestions for further improvement of the course? (If so, please give details and if you would like to be contacted about this idea please include you email address) $H_0 = \frac{1}{2} \frac{1}{2}$

If you do not mind, please could you give us some additional more information about yourself

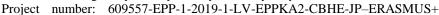
 Gender:
 Male/Female/Prefer not to specify

 Age:
 16-21
 22-30
 31-40
 41-50
 51-60
 61+

 Status:
 Home Student
 EU Student
 International St

Project: Development of practically-oriented student-centred education in the

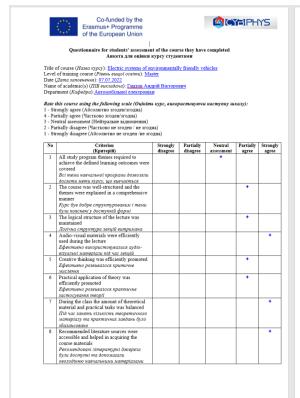
field of modelling of Cyber-Physical Systems, CybPhys.



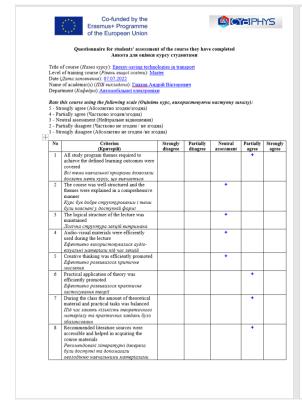
CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



Lambarki Mehdi



	Criterion	Strongly	Partially	Neutral	Partially	Strongly
9	(Kpurrepiñ) The lecturer/professor's attitude to the	disagree	disagree	assessment	agree	agree
,	students was positive and helpful				T .	
	Ставлення лектора/професора до					
	студентів було позитивним та					
	доброзичливим.					
10	The time for the completing of the practical				+	
	tasks was enough Часу на виконання практичних завдань					
	вистачило.					
11	The information about the classes					+
	organisation was clear and easy available					
	Інформація про організацію занять була					
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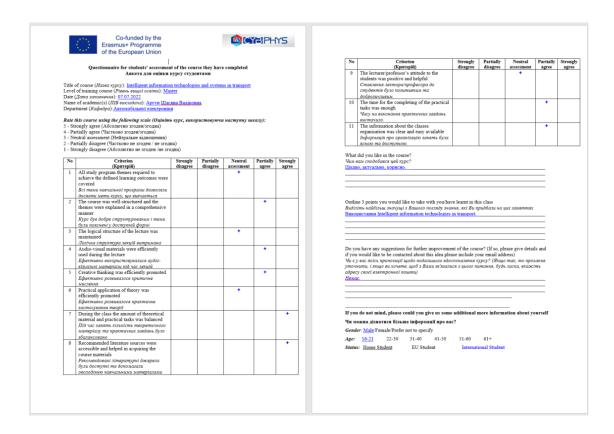
Project: Development of practically-oriented student-centred education in the

field of modelling of Cyber-Physical Systems, CybPhys.

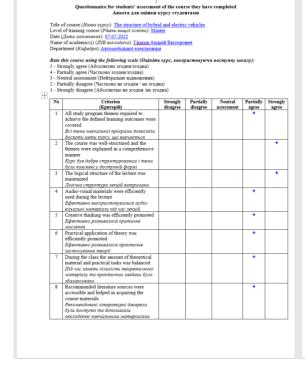
Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.





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Co-funded by the

Erasmus+ Programme of the European Union

No	Criterion (Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Strongl agree
9	The lecturer/professor's attitude to the				+	
	students was positive and helpful Ставлення лектора/професора до					
	студентів було позитивним та					
	доброзичливим.					
10	The time for the completing of the practical					+
	tasks was enough					
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11	The information about the classes					+
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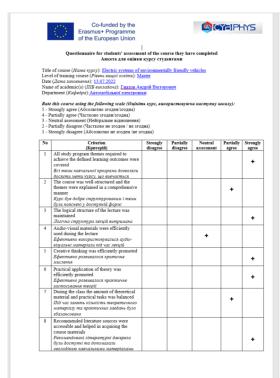
CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022



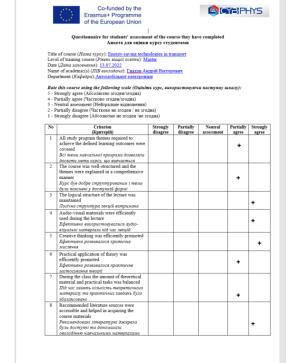
*Missouri Rostislav Vladimirovich

* The student was expelled in the second (spring) semester.

Popov Vadim Dmitrovich



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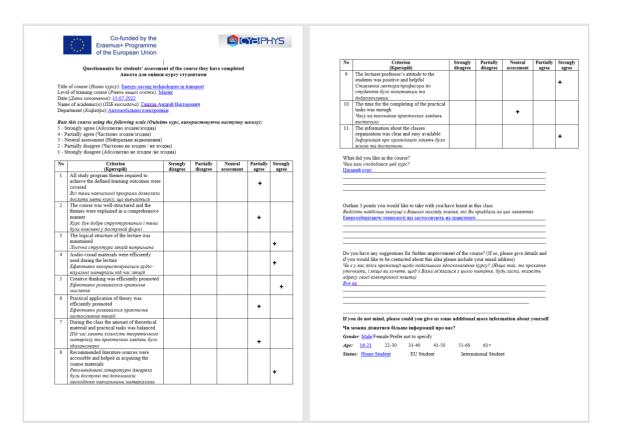
Project: Development of practically-oriented student-centred education in the

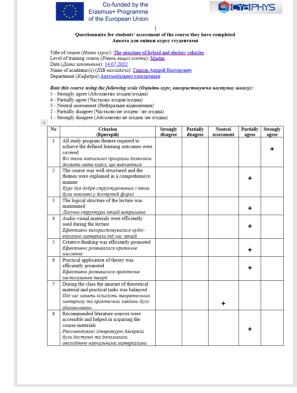
field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022







Co-funded by the

	Criterion (Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Strongly agree
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	students was positive and helpful					
	Ставлення лектора/професора до					
	студентів було позитивним та доброзичливим.				+	
10	The time for the completing of the practical					
	tasks was enough					
	Часу на виконання практичних завдань					+
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11	The information about the classes					
	organisation was clear and easy available				+	
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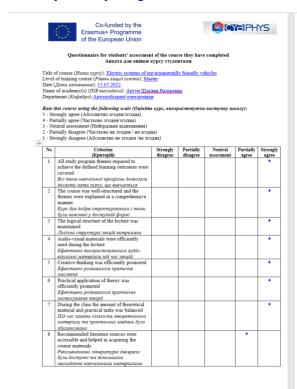
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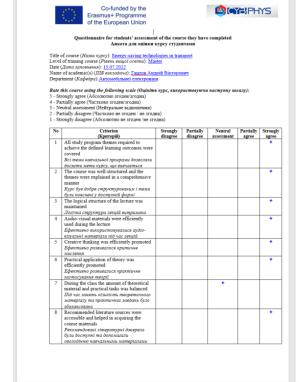
CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022



Timoshevsky Dmitry Sergeevich



	Criterion (Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Strongly agree
9	The lecturer/professor's attitude to the students was positive and helpful					+
	Ставлення лектора/професора до					
	студентів було позитивним та					
	доброзичливим.					
10	The time for the completing of the practical					+
	tasks was enough Часу на вихонання практичних завдань					
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11	The information about the classes					+
	organisation was clear and easy available					
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Project: Development of practically-oriented student-centred education in the

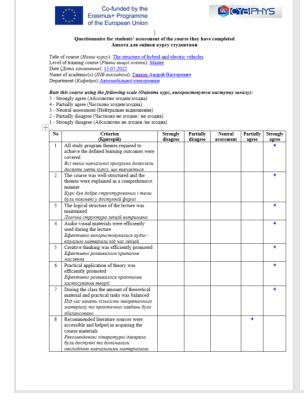
field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



	Questionnaire for students' assessmen	nt of the cour	rse they hav	e completed			No	Сriterion (Критерій)	Strongly disagree	Partially disagree	No asse
	Анкета для оцінки						9				
								students was positive and helpful			
itle	of course (Назва курсу): Intelligent informatio l of training course (Рівень вишої ocetmu): Ma	n technologi	es and system	ns in transport				Ставлення лектора/професора до студентів було позитивним та			
	(Дата заповнення): 08.07.2022	BICI .						доброзичливим.			
	e of academic(s) (ПІБ викладача): Аргун Шас		Ha.				10				
Depa	rtment (Кафедра): Автомобільної електронік	H						tasks was enough Часу на вихонання практичних завдань			
Rate	this course using the following scale (Ouinim	h KUDC. BUKO	пистовуюч	и наступну и	ware):			вистачило.			
- St	trongly agree (Абсолютно згоден/згодна)	- 10,7-0,2					11				
	artially agree (Частково згоден/згодна)							organisation was clear and easy available			
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1	All study program themes required to	unagree	uisagree	assessment	agree	+	пад	ає знання в області інтелектуальних техноло	ги та трансп	юртних засс	O1B.
	achieve the defined learning outcomes were										
	covered										
	Всі теми навчальної програми дозволяли досягти мети курсу, що вивчається						_				_
2	The course was well-structured and the					+					_
	themes were explained in a comprehensive										
	manner Курс був добре структурованим і теми							line 3 points you would like to take with you/ha			
	курс оув дооре структурованим і теми були пояснені у доступній формі							ніліть найбільш значущі з Вашого погляду зна вови теорії інтелектуальних інформаційних т			
3	The logical structure of the lecture was					+		теми електромобілів та гібридних автомобілі		dillin Aport II	UNII
	maintained										
4	Логічна структура лекцій витримана Audio-visual materials were efficiently				_	+	_				_
4	used during the lecture					,					_
	Ефективно використовувалися аудіо-										
5	візуальні матеріали під час лекцій Creative thinking was efficiently promoted		_		-	+		you have any suggestions for further improvem- ou would like to be contacted about this idea ple			
3	Ефективно розвивалося критичне					*		ой would like to be collacted about this idea pie е у вас якісь пропозиції щодо подальшого вдо			
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6	Practical application of theory was					+		есу своєї електронної пошти)			
	efficiently promoted Ефективно розвивалося практичне						Hen	196			_
	застосування творії										
7	During the class the amount of theoretical					+					_
	material and practical tasks was balanced Під час занять кількість теоретичного										
	1110 час занять кількість теоретичного матеріалу та практичних завдань було						If ve	ou do not mind, please could you give us som	e additional i	nore inform	atio
	збалансовано						-	можна дізнатися більше інформації про в			
8	Recommended literature sources were				+						
	accessible and helped in acquiring the course materials							nder: Male/Female/Prefer not to specify			
	соигse materiais Рекомендовані літературні джерела							: 16-21 <u>22-30</u> 31-40 41-50	51-60	61+	
	були доступні та допомагали оволодінню навчальними матеріалами						Stat	tus: Home Student EU Student	Internat	ional Studen	t



	Criterion (Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Strongly agree
9	The lecturer/professor's attitude to the					+
	students was positive and helpful Ставления лектора/професора до					
	студентів було позитивним та					
	доброзичливим.					
10	The time for the completing of the practical					+
	tasks was enough					
	Часу на виконання практичних завдань					
11	вистачило. The information about the classes					-
11	organisation was clear and easy available					
	Інформація про організацію занять була					
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Project: Development of practically-oriented student-centred education in the

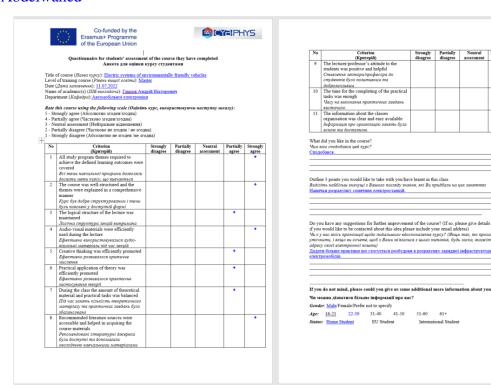
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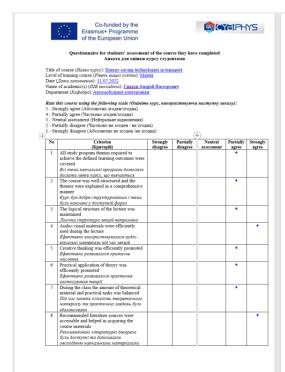
Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



Farah Abdelwahed





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Project: Development of practically-oriented student-centred education in the

field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



	Questionnaire for students' assessmen	4 of the com	ere they bear	mlated			No	Сriterio (Критер		Strongly disagree	Partially disagree	Neutral assessment	Partially agree
	Aнкета для оцінки и of course (Назва курсу): Intelligent informatio of training course (Рівень вищої освіти): Ма	курсу студе n technologie	нтами				9	The lecturer/professor's students was positive and Ставлення лектора/про студентів було позити	attitude to the I helpful oфесора до	unagree	diagree	восовиси	+
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1	All study program themes required to achieve the defined learning outcomes were						_						_
	covered												
	Всі теми навчальної програми дозволяли досягти мети курсу, що вивчається						01	line 3 points you would like		- 1 i sh	:t		
2	The course was well-structured and the				+	\vdash		ine з ротів уой would ince іліть найбільш значущі з Е				viv savammar	
-	themes were explained in a comprehensive				'			ови розбудови інтелектуа:			равован на 1	pac suromnocc	
	manner												
	Курс був добре структурованим і теми												
	були пояснені у доступній формі												
3	The logical structure of the lecture was				+		_						
	maintained						-	you have any suggestions for			0.000		
-4	Логічна структура лекцій витримана Audio-visual materials were efficiently		_			+		you nave any suggestions to ou would like to be contacted					is and
4	used during the lecture					'		с у вас якісь пропозиції що:					VINN B
	Ефективно використовувалися аудіо-							чнити, 1 якщо ви хочете, и					
	візуальні матеріали під час лекцій							есу своєї електронної пош		4		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
5	Creative thinking was efficiently promoted Ефективно розвивалося критичне					•		ше практики.					
6	мислення Practical application of theory was					\vdash	_						
	efficiently promoted												
	Ефективно розвивалося практичне застосування теорії						75	ou do not mind, please cou		- d-dision al -		 	16
7	During the class the amount of theoretical			_		\vdash					nore miorm	ation about yo	ursell
/	material and practical tasks was balanced				*			можна дізнатися більше і		?			
	Під час занять кількість теоретичного						Gen	der: Male/Female/Prefer no	t to specify				
	матеріалу та практичних завдань було								31-40 41-50	51-60	61+		
	збазансовано						-						
8	Recommended literature sources were				+		Stat	us: Home Student	EU Student	Internat	ional Student		
	accessible and helped in acquiring the												
	course materials												
	Рекомендовані літературні джерела												
	були доступні та допомагали оволодінню навчальними матеріалами												

(A) (A) PHYS

Level Date Name	of course (Назва курсу): The structure of hybri of training course (Рівень вищої асвітии): Ma (Дата заповнення): 11.07.2022 of academic(s) (ПІБ викладача): <u>Гнатов Анд</u> rtment (Кафедра): Автомобільної слектронік	ster црій Вікторо				
5 - St 4 - Pa 3 - No 2 - Pa	this course using the following scale (Ouiniminongly agree (Acconsorno этодем'ятодиа) trially agree ('Accrosso этодем'ятодиа) eutral assessment (Нейтральне відношення) utitally disagree ('Частково ітодем'ять и втодем'ять этодем (не этодем (не этодем) не этодем (не	на)	ристовуючи	и наступну ш	калу):	
No	Criterion (Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Stron
1	All study program themes required to achieve the defined learning outcomes were covered Bei menu навчатьної програми дозволяли досяжни мети курсу, що вивчається				•	
2	The course was well-structured and the themes were explained in a comprehensive manner Курс буе добре структурованим I теми були пояснем! у доступній форм!				•	
3	The logical structure of the lecture was maintained Логічна структура лекцій витримана				•	
4	Audio-visual materials were efficiently used during the lecture <u>Eфективно використовувалися аудіо- візуальні матеріали під час лекцій</u>					•
5	Creative thinking was efficiently promoted Ефективно розвивалося критичне мислення					•
6	Practical application of theory was efficiently promoted Ефективно розвивалося практичне заствосування творії				٠	
7	During the class the amount of theoretical material and practical tasks was balanced Під час занять кітькість теоретичного матеріалу та практичних заедань було збазансовано				•	
8	Recommended literature sources were accessible and helped in acquiring the course materials Percomendoeani nimepamyphi decepta були доступні та допомагали доступні та допомагали допомагали допомагали допомагали допомага					+

Questionnaire for students' assessment of the course they have completed Анкета для оцінки курсу студентами

Co-funded by the Erasmus+ Programme of the European Union

No	Criterion (Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Strongly agree
9	The lecturer/professor's attitude to the				_	+
	students was positive and helpful Ставления лектора/професора до					
	студентів було позитивним та					
	доброзичливим.					
10	The time for the completing of the practical					
	tasks was enough Часу на виконання практичних завдань					
	вистачило.					
11	The information about the classes					+
	organisation was clear and easy available					
	Інформація про організацію занять була ясною та доступною.					
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Project: Development of practically-oriented student-centred education in the

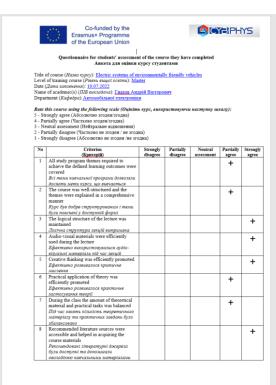
field of modelling of Cyber-Physical Systems, CybPhys.

Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

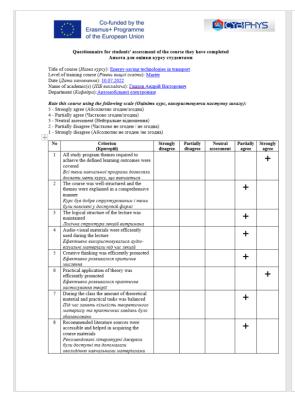
CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



Shcherbak Mikhail Pavlovich



No	Criterion (Kpsrrepiii)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Strongly
9	The lecturer/professor's attitude to the	disagree	disagree	assessment	agree	+
	students was positive and helpful					-
	Ставлення лектора/професора до студентів було позитивним та					
	доброзичливии.					
10	The time for the completing of the practical					
	tasks was enough				+	
	Часу на виконання практичних завдань					
	The information about the classes					
11	The information about the classes organisation was clear and easy available				+	
	Інформація про організацію занять була					
	ясною та доступною.					
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Outlin	ne 3 points you would like to take with you/hav					
Outlin Bud I	іть найбільш значущі з Вашого погляду знаг	чня, які Ви п	ридбали на :			
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10	(Критерій) The lecturer/professor's attitude to the students was positive and helpful Ставленка лектора/професора до студенть було позитивним та доброзисливим.	disagree	disagree	assessment	agree +	agree
10	Ставлення лектора/професора до студентів було позитивним та доброзичливим.					
10	студентів було позитивним та доброзичливим.					
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	The time for the completing of the practical				+	
	tasks was enough Часу на виконання практичних завдань				· '	
	часу на виконання практичних завоань вистачило.					
11	The information about the classes					
	organisation was clear and easy available				+	
	Інформація про організацію занять була					
	ясною та доступною.					
=					=	
	ть найбільш значущі з Вашого погляду знак вматика електричного автомобільного тра		риооили на ц	на заняття		
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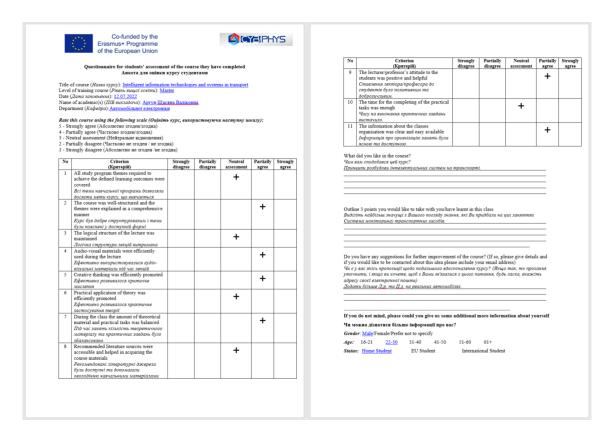
Project: Development of practically-oriented student-centred education in the

field of modelling of Cyber-Physical Systems, CybPhys.

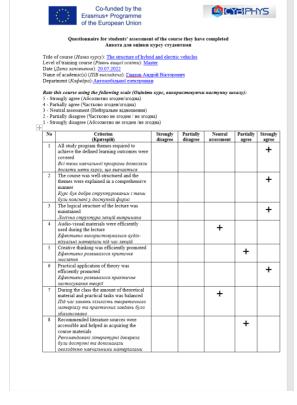
Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

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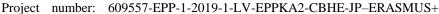
(A) (A) PHYS



	Criterion (Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Strongly agree
9	The lecturer/professor's attitude to the					
	students was positive and helpful				+	
	Ставлення лектора/професора до					
	студентів було позитивним та					
	доброзичливим.					
10	The time for the completing of the practical tasks was enough				+	
	tasks was enough Часу на виконання практичних завдань					
	вистачило.					
11	The information about the classes					
••	organisation was clear and easy available				+	
	Інформація про організацію занять була					
	ясною та доступною.					
O	простий у розумінні.					
(ypc)	, , , , , , , , , , , , , , , , , , ,					
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Project: Development of practically-oriented student-centred education in the

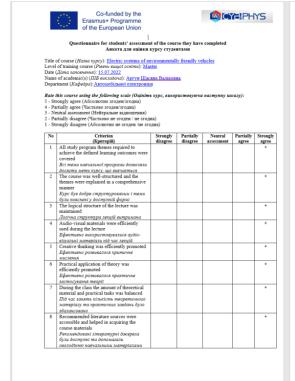
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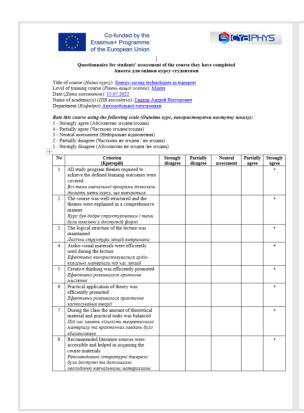
CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



Yurchyshyn Anton Valeriyovych



No	Criterion (Kparrepiñ)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Strongly agree
9	The lecturer/professor's attitude to the	unagree	unagree		- agree	+
	students was positive and helpful					
	Ставлення лектора/професора до студентів було позитивним та					
	доброзичливим.					
10	The time for the completing of the practical					+
	tasks was enough					
	Часу на виконання практичних завдань вистачило.					
11	The information about the classes					+
**	organisation was clear and easy available					·
	Інформація про організацію занять була					
	ясною та доступною.					
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	Criterion (Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree	Strongly agree
9	The lecturer/professor's attitude to the students was positive and helpful					+
	Ставлення лектора/професора до студентів було позитивним та					
10	The time for the completing of the practical tasks was enough					+
	tasks was enough Часу на виконання практичних завдань вистачило.					
11	The information about the classes organisation was clear and easy available Інформація про організацію занять була					+
	ясною та доступною.					
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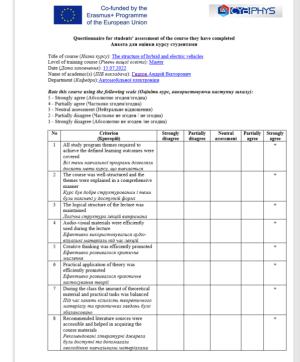
Project number: 609557-EPP-1-2019-1-LV-EPPKA2-CBHE-JP-ERASMUS+

CBHE http://cybphys.rtu.lv/ Version: 0.3 31.07.2022.



	Questionnaire for students' assessmen	nt of the cou	rse they hav	completed			No	Criterion (Критерій)	Strongly disagree	Partially disagree	Neutral assessment	Partially agree
Leve Date	Анкета для оцінки of course (Назва курсу): Intelligent informatic el of training course (Рівень вищої освіти): Ма (Дата заповнення): 08.07.2022	n technologi aster	es and system				9	The lecturer/professor's attitude to the students was positive and helpful Ставленкя лектора/професора до студентів було позитивним та доброзичливим.	umgree	unagree		
Depa	e of academic(s) (ПІБ викладача): Аргун Шак artment (Кафедра): Автомобільної електроніз	KH					10	tasks was enough Часу на виконання практичних завдань				
5 - St 4 - P: 3 - N 2 - P:	this course using the following scale (Oulnim trongly agree (Абсолютно эгоден/эгодна) artially agree (Частково эгоден/эгодна) feutral assessment (Нейтральне відношення) artially disagree (Частково не эгоден / не эгод trongly disagree (Абсолютно не эгоден / не эго	іна)	ристовуючі	і наступну ш	калу):		11	вистачило. The information about the classes organisation was clear and easy available Інформація про організацію занять була ясною та доступною.				
No		Strongly	Partially	Neutral	Partially	Strongly		t did you like in the course? вам сподобався ней курс?				
1	achieve the defined learning outcomes were covered Всі теми навчальної програми дозволяли	disagree	disagree	assessment	agree	agree +						
2	досями мети курсу, що вивчасться The course was well-structured and the themes were explained in a comprehensive manner Курс був добре структурованим і теми біли пояснені у доступній формі					*		ine 3 points you would like to take with you/ha ระเทษ ผลนิธิโรษแ รคลงงูนผู้ ร Baucoso กอะระหิงู รคณ			үих заняттях	
3	The logical structure of the lecture was maintained Логічна структура лекцій витримана					+	=					
4	Audio-visual materials were efficiently used during the lecture Ефективно використовувалися аудіо- візуальні матеріали під час лекцій					*	if yo	rou have any suggestions for further improvem u would like to be contacted about this idea ple y eac AKICS пропозиції щодо подальшого вдо	ase include y	our email add	lress)	
5	Creative thinking was efficiently promoted Ефективно розвивалося критичне мисления					+	уто адр	у вис холов пропозиції щого подили зв'язал ску своєї електронної пошти) ac				
	Practical application of theory was efficiently promoted Ефективно розвивалося практичне застосування теорії				+							
6	During the class the amount of theoretical					*	Чи	u do not mind, please could you give us som ножна дізнатися більше інформації про в: der: Male/Female/Prefer not to specify		more inform	ation about ye	ourself
7	material and practical tasks was balanced Під час занять кізькість теоретичного матеріалу та практичних завдань було збазансовано					+		16-21 22-30 31-40 41-50	51-60	61+		

(A) (A) PHYS



No	Criterion	Strongly	Partially	Neutral	Partially	Strongly
9	(Kpurepiii) The lecturer/professor's attitude to the	disagree	disagree	assessment	agree	agree
9	students was positive and helpful					,
	Ставлення лектора/професора до					
	студентів було позитивним та					
	доброзичливим.					
10	The time for the completing of the practical					+
	tasks was enough Часу на виконання практичних завдань					
	вистачило.					
11	The information about the classes					+
	organisation was clear and easy available					
	Інформація про організацію занять була					
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	ne 3 points you would like to take with you'hav imь найбільш значущі з Вашого погляду знак			их заняттях		
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Annex 3

Annex 4

Annex 5