





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

ERASMUS+ MODELLING CYBPHYS 609557

Kryvyi Rih National University Courses development progress







Curriculum development aspects

Kriviy Rih National University declared development and implementation of 7 courses (3 new/4 updated). These courses will be included in 2 curricula - 151-Cyber-physical systems (Master Program) and 275 - Transportation technologies (Bachelor Program)

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١	KPM	KHY	
	7	all -	University

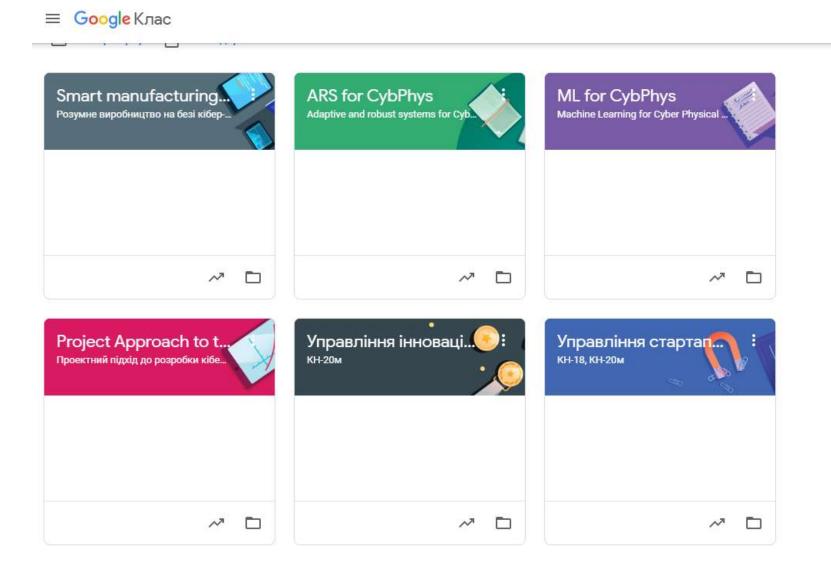
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2/12	COURSES	THE NAMES OF RESPONSIBLE				
	New courses					
1.	Smart manufacturing based on cyber- physical systems	Sergii Ruban PhD, Associate prof. of the Automation, Computer Science and Technology Department				
2.	Machine Learning for Cyber Physical Systems and Industry 4.0	Vitaliy Tron PhD, Associate prof. of the Automation, Computer Science and Technology Department				
3.	Transportation Cyber-Physical Systems	Volodymyr Sistuk PhD, Dean of Transport Faculty, Associate prof. of the Dep. of Automobile Transport				
	Upda	ited courses				
1.	Open Pit Intelligent Transportation System	Mykola Stupnik Rector of KNU, Professor, Doctor of Engineering Science Yurii Monastyrskyi Professor, Doctor of Engineering Science, Head of the Department of Automobile Transport				
2.	Modern Information Technologies in Transport	Volodymyr Sistuk PhD, Dean of Transport Faculty, Associate prof. of the Dep. of Automobile Transport				
3.	Adaptive and Robust Systems	Natalia Morkun Professor, Doctor of Sciences (Engineering), Head of the Automation, Computer Science and Technology Department				
4.	Project Approach to the Designing of Cyber-Physical Systems	Iryna Zavsiehdashnia PhD, Associate prof. of the Automation, Computer Science and Technology Department				

SYHAIPHYS

In KNU we use Google Classroom platform for studying processes





Потік

Завдання

Пюпи

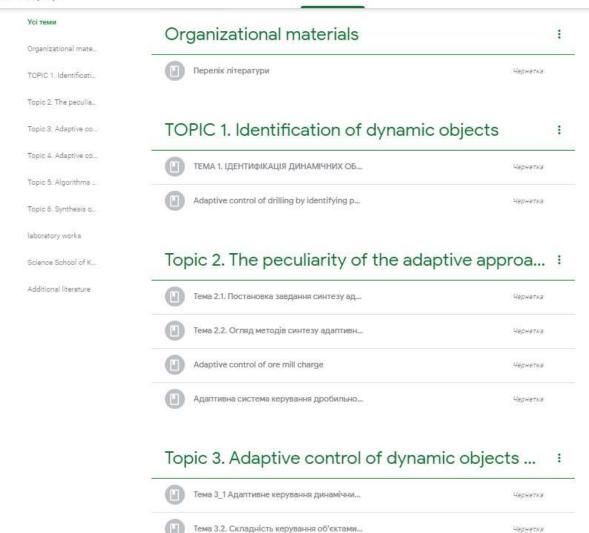
Оцінки



SYH9END (2)

	+ Створити	пка курсу на Диск
Усі теми	Машинне навчання та наука про дані у пр	Чернетка
1 - CybPhys system		
2 - ML algorithms fo	Зразок оформлення лабораторної роботи	Чернетка
3 - Data preprocessi	Наукові статті	Чернетка
4 - Model evaluation		
5 - Combining mode	1 - CybPhys systems ability to learn from o	data :
6 - Regression analy_	Первинний аналіз даних	Чернетка
7 - Clustering analys		793
7 - Clustering analys 8 - Computer vision	Візуальний аналіз даних	Чернетка
	2 - ML algorithms for classification	Чернетка :
		Чернетка :
	2 - ML algorithms for classification	ī
	2 - ML algorithms for classification	: Чернетка
	2 - ML algorithms for classification © Робота - Дерево рішень Пінійні моделі класифікації та регресії	! Чернетка Чернетка
CONTRACTOR CONTRACTOR	2 - ML algorithms for classification Робота - Дерево рішень Лінійні моделі класифікації та регресії Класифікація, дерева рішень	і Чарнетка Чарнетка Чарнетка

4 - Model evaluation and hyperparameter tuni... :



Тема 3.3. Приклади синтезу пристроїв кер...



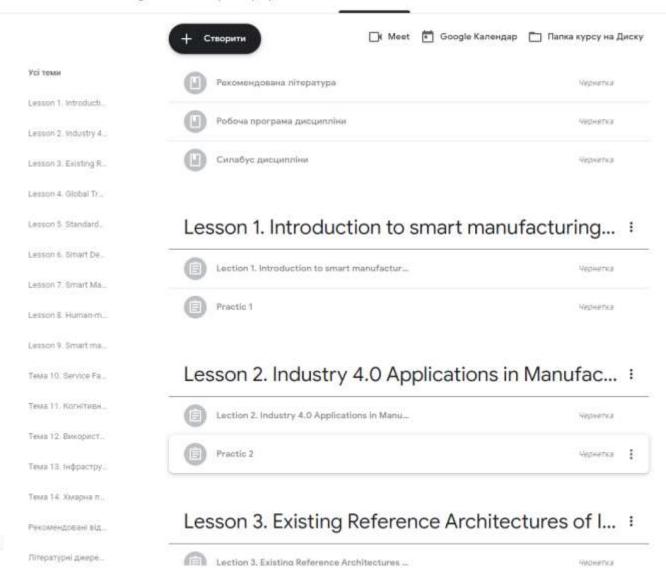
Чернетка

Усі теми	Course workshop (project)	Чернетка
Lectures		
Supplimentary litera	Syllabus (project)	Чернетка
Practical lessons	Subjects templates for Cyber-Physical desi	Чернетка
	Lectures	
	Lecture 8, Risk management of the project	Чернетка
	Lecture 7. HR management of the cyb-phys	Чернетка
	Lecture 6. Fundamentals of cyber-physical	Чернетка
	Lecture 5. Estimation of investment attracti	Чернетка
	Lecture 4. Defining the concept of the proje	Чернетка
	Lecture 3. The concept of project life cycle	Чернетка
	Lecture 2. Implementation of cyber-physica	Чернетка
	Lecture 1. The concept of the project. The e	Чернетка
	Supplimentary literature	
	Стандарти	Чернетка
	PMBOK 5	Чернетка

Practical lessons











Deep Traffic Videoanalysis based on Al



- Traffic analysis menu in DFS
- Annotation configuration detailed descripti...
- The first view of Datafromsky
- Traffic Analysis in Datafromsky Viewer
- Manage Annotation Configurations
- Basics of Datafromsky approach for advanc.

SSAM approach with VISSIM car-following mo... :





The course was updated corresponding to Erasmus + KA2 "CybPhys" project .



vissimprotocol-50-58.pdf





KRIVYI RIH NATIONAL UNIVERSITY -

WE ARE READY FOR ERASMUS + MODELLING CYBPHYS 609557 CHALLENGES!