





Block Week 2023

(hybrid pilot teaching)

within the Erasmus+ CBHE project

Cross-domain competences for healthy and safe work in the 21st century (WORK4CE)
619034-EPP-1-2020-1-UA-EPPKA2-CBHE-JP

04.09.2023 - 15.09.2023

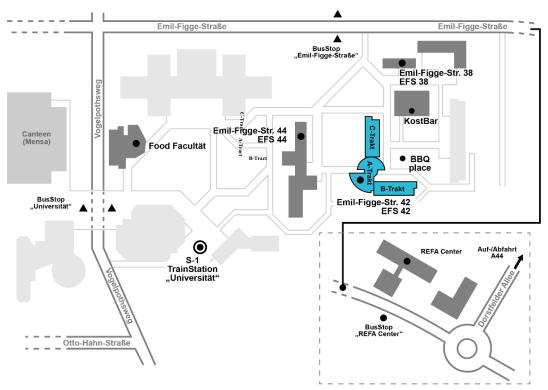
Fachhochschule Dortmund - University of Applied Sciences and Arts Emil-Figge-Str. 42, 44227 Dortmund, Room A 3.03 (3rd floor)

Educational resources:

During the event you will need to work with Moodle, where you will find the needed materials for the event: https://moodle.go-study-europe.de/course/view.php?id=1400

The instruction on how to get enrolled in the course in Moodle and how to register (if you have no account yet) can be found in the email.

Lectures and workshops will be taught in English. The event is free of charge.



Emil-Figge-Str. 42, 44227 Dortmund







PROGRAMME OF THE BLOCK WEEK 2023

Location: Emil-Figge-Str. 42, Room A 3.03 (3rd floor)

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Date	Timeslot	Type of activity within the modules	Product Owner/ Lecturer/ Presenter/ Mentor
	08:45 - 09:15	Registration of the students and staff	
	09:15 - 10:00	Kick-off and some Organisational Questions (Announcement of the Team Members)	Carsten Wolff Galyna Tabunshchyk Anzhelika Parkhomenko Anna Badasian
	10:00 - 11:00	Introduction of the case study	Kanan Hasanov
		M04. Distributed Teams	
	11:00 - 12:30	Olena Verenych (KNUCA): "Hiring in Distributed Teams and/or Psychological types"	Olena Verenych, Sergiy Bushuyev
		Sergiy Bushuyev (KNUCA): "Managing innovative projects and programs "	
	12:30 - 13:30	Lunch	All partners
Monday 04/09/2023	13:30 - 15:00	Mykhailo Dombrovskyi (WUNU): "Re-imaging work systems with the ongoing Industry 4.0 digital transformation in the value adding production and logistic processes innovative development" Anatoliy Sachenko (WUNU): "Work 4.0 production system development based on Reference Architecture Model Industrie 4.0" Pavlo Bykovyy and Grygorii Hladiy (WUNU): "Course assessment questionnaire for pilot teaching"	Mykhailo DombrovskyiPavlo BykovyyAnatoliy Sachenko
	15:00 - 17:00	Working on the case study	Isa Muradov Famil Humbatov , Kanan Hasanov, Galyna Tabunsnchyk, Andriy Parkhomenko, Denys Chernyshev, Olena Verenych, Yashar Hajiyev, Sergiy Bushuyev, Andrii Karpenko, Olexiy Kuzkin
	17:00	Dortmund Walking Guided Tour	Anna Zasorina
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Date	Timeslot	Type of activity within the modules	Product Owner/ Lecturer/ Presenter/ Mentor
Tuesday	09:00 - 10:30	M06. Safe workplaces Incorporate safety measures and ergonomic considerations into the workspace design to ensure the physical well-being of employees	Kanan Hasanov Famil Humbatov
	10:30 - 12:00	M08. Life Cycle Thinking and Sustainable Management Yevheniia Boiko (KNUCA): "Circular economy. and Product life cycle: contextualization and concept".	Carolina Cruz Yevheniia Boiko
05/09/2023	12:00 - 13:00	Lunch	All partners
	13:00 - 16:00	Working on the case study	Isa Muradov Famil Humbatov, Kanan Hasanov, Andriy Parkhomenko, Denys Chernyshev, Olena Verenych, Yashar Hajiyev, Sergiy Bushuyev, Andrii Karpenko, Olexiy Kuzkin
	09:00 - 10:30	M02. Digital Technologies	Elvin Mejidov Asif Ganbayev, Elvin Alirzayev
	10:30 - 12:00	M09. Developing Digital Business Ecosystems Fostering Collaboration and Innovation in a Digital Business Ecosystem	Kanan Hasanov
	12:00 - 13:00	Lunch	All partners
Wednesday 06/09/2023	13:00 - 16:00	Working on the case study	Isa Muradov. Famil Humbatov, Kanan Hasanov Galyna Tabunsnchyk, Andriy Parkhomenko, Denys Chernyshev, Olena Verenych, Yashar Hajiyev, Sergiy Bushuyev, Andrii Karpenko, Olexiy Kuzkin
	16:00 - 17:00	Q&A for the case study Mandatory for all teams!	Kanan Hasanov Anzhelika Parkhomenko Leyla Naghiyeva Elvin Mejidov Yashar Hajiyev Anatoliy Sachenko Sergey Bushuyev Galyna Tabunsnchyk
		Team-building	Anna Zasorina





Date	Timeslot	Type of activity within the modules	Product Owner/ Lecturer/ Presenter/ Mentor
	09:00 - 10:30	M07. Managing Digital Changes Ilgar Rzayev (ASOIU): "Exploitation and manipulation of	Yashar HajiyevLeyla
		vulnerabilities in an emulation platform over network systems. "	Naghiyeva Ilgar Rzayev
		M08. Life Cycle Thinking and Sustainable Management	Caralina Cruz
	10:30 - 12:00	Jon Aretxaga (UPV/EHU): "Economic evaluation of projects, profitability-utility"	Carolina Cruz Jon Aretxaga
Thursday 07/09/2023	12:00 - 13:00	Lunch	All partners
07103/2023	13:00 - 16:00	Working on the case study	Isa Muradov, Famil Humbatov, Kanan Hasanov Galyna Tabunsnchyk, Andriy Parkhomenko, Denys Chernyshev, Olena Verenych, Yashar Hajiyev Sergiy Bushuyev, Andrii Karpenko, Olexiy Kuzkin, Carolian Cruz-Villazon
	09:00 - 10:30	M03. Industry 4.0	
		Peter Arras (KU Leuven): "Concepts of digital twins".	Peter Arras
		Anzhelika Parkhomenko (NUZP): "How, when and where IoT technologies can create value and improve the performance of business"	Dennie Jansen Anzhelika Parkhomenko
Friday	10.30-12.00	M08. Life Cycle Thinking and Sustainable Management	
08/09/2023		Carolina Cruz-Villazon (UPV/EHU): "Tools for assessing the impact of projects on sustainability"	Carolina Cruz
	12:00 - 13:00	Lunch	All partners
	13:00 - 16:00	Presentation of the results Mandatory for all teams!	All partners
	16:00 - 16:15	Closing	All partners
Monday 11/09/2023	11.00-12.00	Quality Assurance (QA) session on the Case study. General questions.	Kanan Hasanov (AzUAC)
	14.00-16.00	QA on M01. Data Analytics for Work	Sergey Subbotin (NUZP)
Tuesday 12/09/2023	11.00-12.00	QA on M06. Safe workplaces	Kanan Hasanov (AzUAC) and Isa Muradov (AzUAC)



15/09/2023

of Application and Living Domains

Mandatory for all teams!



Product Owner/ Lecturer/ **Timeslot** Date Type of activity within the modules Presenter/ Mentor Anzhelika Parkhomenko 14.00-16.00 QA on M03. Industry 4.0 (NUZP) Kanan Hasanov (AzUAC) 11.00-12.00 QA on M06. Safe workplaces and Isa Muradov (AzUAC) Wednesday 13/09/2023 12.00-14.00 QA on M07. Managing Digital Changes Yashar Hajiyev (ASOIU) 14.00-16.00 QA on M07. Managing Digital Changes Olexiy Kuzkin (NUZP) Isa Muradov (AzUAC) 11.00-12.00 QA on M09. Developing Digital Business Ecosystems 12.00-14.00 Ilgar Rzayev (ASOIU) 14.00-16.00 QA on M09. Developing Digital Business Ecosystems Andrii Karpenko (NUZP) **Thursday** 14/09/2023 Olena Verenych (KNUCA) and Sergiy Bushuyev 16.00-17.00 QA on M04. Distributed teams (KNUCA) 17.00-18.00 QA on the Case study. General questions. Kanan Hasanov (AzUAC) **Friday Final Submission**







LECTURERS AND MENTORS INFORMATION

MENTOR: NAME, SURNAME, AFFILIATION	SHORT DESCRIPTION
Anatoliy SACHENKO WUNU	Professor, Dr. Science, PhD in Electrical Engineering and DSc Degree in Electrical and Computer Engineering Expertise: - Manager of a team completing more than 20 international projects within Frame 7, Horizon, NSF, CRDF, NATO Programs - Principal Investigator of Research Institute for Intelligent Computer Systems since 2004 - Head of Department of Information Computing Systems and Control,1989-2021 - Dean of the Faculty in 1994-2005, Dean of American-Ukrainian School for Computer Science in 2007-2009 - Fulbright Professor in USA: University of Maine (2002-2003) and University of New Hampshire (summer semester of 2010-2011) - three-month work placement in Northern Telecom, Toronto, Canada in 1993 - General Chairman of regular IEEE IDAACS Conferences since 2001
Andrii KARPENKO, NUZP	Head of the Department of Project Activities of NU-ZP, Doctor of Economics, Professor of the Department of Economics and Customs, CEO of Zaporizhzhia Cluster "Engineering-Automation-Machinery". Author of about 300 scientific and methodical works, 10 textbooks (more than 35 publications in Web of Science, SCOPUS, Copernicus). His research interests include innovative entrepreneurship, project management and human capital.
Andriy PARKHOMENKO, NUZP	PhD, Head of the Educational and Methodical Department of National University Zaporizhzhia Polytechnic, Ukraine. Associate Professor of Department of Machines and technology of foundry production. Specialist in the development and accreditation of educational programs, introducing modern digital technologies and resources into educational activities, ensuring the quality of higher education, introducing a competency-based approach in higher education, organizing the educational process based on a student-centered approach. Main areas of scientific research: Energy Saving Technologies, CAD/CAM/CAE systems, Technologies of virtual and remote engineering.
Anzhelika PARKHOMENKO, NUZP	PhD, of Associate Professor of Software Tools Department of National University Zaporizhzhia Polytechnic, Ukraine. Author of more than 250 scientific publications and educational/methodical works, including 1 monograph, 9 textbooks. PhD students` supervisor, head of scientific research group of Remote and Virtual Tools R&D at Software Tools Department. Member of the group of curricular development. Expert of TEMPUS/ERASMUS+ International Educational Projects (2009-2023). Main areas of scientific research: IoT technologies, Embedded systems, Technologies of virtual and remote engineering; Smart House systems; CAD/CAM/CAE systems. https://www.scopus.com/authid/detail.uri?authorld=57210667343
Carolina CRUZ- VILLAZON, UPV/EHU	Industrial Engineer with PhD in Engineering Project Management. Lean and Six Sigma Black Belt with work experience in international power generation industry. Lecturer and researcher at the University of the Basque Country (Spain). Main lines of research include sustainability in project management, sustainable business models, digital transformation projects and Lean project management. Member of ProDiT and Work4ce project.







MENTOR: NAME, SURNAME, AFFILIATION	SHORT DESCRIPTION
Carsten WOLFF Fachhochschule Dortmund - University of Applied Sciences and Arts Institute for the Digital Transformation of Application and Living Domains (IDiAL)	Carsten Wolff is Professor for Computer Science at Dortmund University of Applied Sciences and Arts (FH Dortmund) since 2007. He studied electrical engineering and economics at Paderborn University and did a PhD in information technology at the Heinz Nixdorf Institute. In his industrial career, Dr. Wolff was in the semiconductor industry (Infineon AG), working in Germany, P.R. China, and Taiwan. He worked as project manager, head of department, and program manager on the development of ASICs and processors. He also contributed to the development of a new research centre in P.R. China. At FH Dortmund, he is the spokesman of the DAAD strategic partnership "EuroPIM – European Partnership for Project and Innovation Management", co-founder of the Master's Embedded Systems for Mechatronics and Master Digital Transformation. From 2011-2015 he was the vice-rector for study, teaching, and international relations. From 2019-2021 he was the provost and vice-rector of the newly founded Astana IT University (AITU) in Kazakhstan. From 2015-2018 he was the spokesman of the industry-university cluster ruhrvalley. Carsten Wolff is a founding member and director of the "Institute for the Digital Transformation of Application and Living Domains (IDiAL)". He was the PCC member of a series of Eureka/ITEA projects for FH Dortmund. Carsten Wolff is a co-founder of Smart Mechatronics GmbH and CP contech electronic GmbH.
Dennie JANSEN , KU Leuven	ir.arch. Dennie Jansen is senior lecturer civil engineering at the KU Leuven in the faculty of engineering technology. He teaches in bachelor degree courses in building methodology, building materials, building physics, sustainability and courses related to technical drawing and modelling (BIM). He obtained a bachelor's degree in building design and construction (Avans university college, NL) and land surveying. A master degree in architecture (Technical University Delft, NL) and is currently working on his PhD about hygrothermal creep of bio-composite materials. • 5+ years professional experience in architectural design and urban planning (DAE Jansen architectuur, NL) • 10+ years teaching in civil engineering (KU Leuven, BE) • 5+ years international relations officer for civil engineering program (KU Leuven, BE)
Denys CHERNYSHEV, KNUCA	The first vice-rector of the Kyiv National University of Construction and Architecture, Doctor of Technical Sciences, Professor, and Honored Worker of Education of Ukraine He has been working at the university since 2000. Serves as a professor in the Department of Water Supply and Sewerage. Teaches courses in hydraulics and technical mechanics. Author of nearly a hundred publications, including several monographs and textbooks in the field. In 2002, he was awarded the Honorary Diploma of the Ministry of Education and Science of Ukraine. In 2013, he received the Honorary Diploma of the Cabinet of Ministers of Ukraine. In 2015, Ukraine was awarded the badge of honor "Excellence in Education of Ukraine" by the Ministry of Education and Science of Ukraine. In 2019, the Decree of the President of Ukraine conferred the honorary title of "Honored Worker of Education of Ukraine." In 2021, he was awarded the Order of "Merit" (Ukraine) III degree. Is a member of the Council of Vice-Rectors under the Ministry of Education and Science of Ukraine.





MENTOR: NAME, SURNAME, AFFILIATION	SHORT DESCRIPTION	
Famil HUMBATOV, AzUAC	Lecturer at AzUAC hfamil@mail.ru Head of "Radioecology Lab.", Institute of Radiation Problems, ANAS PhD of physics Humbatov Famil Yusif Basic activity directions - Conducting research and preparing databases on the distribution of uranium-thorium-radium isotopes in the water and soil ecosystems of Azerbaijan and related heavy metals and polycyclic compounds in environmentally sensitive areas -Study of environmental pollution with radionuclides, heavy metals, toxic elements and common organic hydrocarbons in oil production areas; - Study of radionuclides, metals and organic pollutants in the aquatic environment and bottom sediments of the Azerbaijani sector of the Caspian Sea; - Study of natural and anthropogenic pollutants in the river basins of Azerbaijan and the risks they create; - Studying the influence of environmental stress factors on biological objects.	
Galyna TABUNSHCHYK NUZP	PhD, Prof of Software Tools Department in National University Zaporizhzhia Polytechnic (Ukraine) and researcher in FH Dortmund (Germany). Graduated from Zaporizhzhya National Technical University(Ukraine) with speciality Software Engineering, in 2004 finished PhD work in control systems and process. Have more than 200 scientific works. Scopus profile: https://www.scopus.com/authid/detail.uri?authorld=56007319800 Supervising work of PhD students from 2000 (3 successfully finished research). National and university coordinator of Erasmus+ KA1 and KA2 projects. Coordinator of Erasmus+ CBHE project 619034-EPP-1-2020-1-UA-EPPKA2-CBHE-JP WORK4CE: Cross-domain competences for healthy and safe work in the 21st century	
Ilgar RZAYEV, ASOIU	Mr. Rzayev more than 24 years worked in different companies and organizations on position IT management of networks, telecommunication systems, surveillance and call center systems (Panasonic, Siemens, Tadiran Communications e.c.t). Entrepreneur in information systems and Mr. Rzayev has huge relationships with companies and organizations. Lecturer in different universities ASOIU (Azerbaijan State Oil and Industry university), ZU-Bba (University of Siegen), UNEC (Azerbaijan State University of Economics). Trainer and analyst of relationships of staff and strategy in company. Doctoral student in Computer Science and main lines of research include Cyber Security (Audit of information systems vulnerabilities).	
Isa MURADOV , AzUAC	Director of PR and Marketing Center at Azerbaijan University of Architecture and Construction. Bachelor: Azerbaijan University of Architecture and Construction (Marketing) Master: Azerbaijan University of Tourism and Management (Restaurant and Hotel Business Management, Hospitality) Doctorate: Azerbaijan University of Architecture and Construction, Yildiz Technical University (Directions of tourism organization in the liberated region)	
Jon ARETXAGA, UPV/EHU	Industrial Engineer. Lecturer at the University of the Basque Country (Spain) with more than 20 years of academic and professional experience. Teaching economics for engineers and engineering projects whilst working at the consultancy and engineering company Mainstrat as a project manager. Also has professional experience as a project manager in the automotive tooling sector.	





MENTOR: NAME, SURNAME, AFFILIATION	SHORT DESCRIPTION
Kanan HASANOV , AzUAC	Deputy Director at ERA Marketing Center and Senior Lecturer at AzUAC. Mr Kanan Hasanov has more than seven years' business management and consulting experience across the world in international institutions and multicultural environments. He has collaborated with international companies, governmental and local private organizations, social entrepreneurship, start-ups consulted companies in various sectors. His background as both industry client and consultant reflects the practical, insightful and solution-focused edge he brings to his engagements. Mr Hasanov's expertise spans market research, design, interview, and survey facilitation, non-profit fundraising consulting, stakeholder and donor engagement, project management, evaluation, IT management and change management. During his professional experience he has consulted clients representing various market segments on business and corporate strategy analysis and execution, market analysis and discovering related trends, corporate social responsibility activities, arranging and conducting interviews with focus groups and many more. Mr Hasanov holds a Bachelor of Science in Organization and Management of Industry from the Azerbaijan University of Architecture and Construction and a Master's degree in IT Management from the University of Nottingham, UK (graduated with distinction). He is a holder of numerous scholarships (i.e. State Program on education of Azerbaijan youth abroad in the years 2007-2015) and winner of business and startups competitions.
Mykhailo DOMBROVSKYI WUNU	Ph.D. in Project and Program Management (2019). Interests: project and program management, computer science, system engineering, cyber-physical systems, data science, management of organizational development, proactive management, digital transformation, projects of sustainable development and improvement of the quality of life, development of "smart" cities, developments in "smart" energy industry. https://www.scopus.com/authid/detail.uri?authorld=56007506200
Olena VERENYCH KNUCA	Professor, Doctor of Engineering Sciences of Project Management Department of Kyiv National University of Construction and Architecture, Kyiv, Ukraine. Reviewer of scientific articles and an active participant in international scientific-practical conferences. The supervisor of bachelor's and master's theses at Kyiv National University of Construction and Architecture (KNUCA) and at Dortmund University of Applied Sciences and Arts, Dortmund, Germany (on a voluntary basis), and PhD students. Reviewer of research works submitted for the degree of Doctor of Philosophy; chair and member of ad hoc specialized academic councils; official opponent of research works submitted for the candidate's degree. Included in the ranking of the best scientific and pedagogical staff of KNUCA. Has experience in implementing Ukrainian and international projects funded by clients, including the European Union, the German Academic Exchange Service (DAAD), and the World Bank for Reconstruction and Development, serving as a project manager. Author of over 100 scientific and methodological works. Holds several copyright certificates for authorship.
Olexiy KUZKIN, NUZP	Dean of Transportation and Logistics Faculty in National University "Zaporizhzhia Polytechnic" (Ukraine), Doctor of Science, Full Professor. Lecturer at Transport Technologies Department in fields of Operations research in Transport systems and Urban transportation systems for bachelor and master students. Author more than 50 scientific papers concerning freight and passenger transportation, industrial and urban logistics during 25 years of experience in the study field.







MENTOR: NAME, SURNAME, AFFILIATION	SHORT DESCRIPTION
Pavio BYKOVYY WUNU	Ph.D. in Computer Systems and Components (2011). Expertise: - Associate Professor of the Department of Information Computer Systems and Control (2021-since now) IEEE Member #41628867 (since 2004). IEEE Student Branch Chair (2005-2009), Treasurer (2012 - 2016) and Chair (2021 - since now) of IEEE Ukraine Section IM/CIS Societies Joint Chapter - Junior QA Engineer, ELEKS Ltd, Ternopil 2016-2017 Coordinator of Ukrainian-American Program of Computer Science (2013-2016) Head of Ukrainian-German Educational & Research Center (2018 – since now) Member of Organizing committee of IEEE International Conference IDAACS (2003-2023). https://www.scopus.com/authid/detail.uri?authorld=7801584826
Peter ARRAS, KU Leuven	Dr ing Peter Arras, Prof h.c. is senior lecturer at KU Leuven in the faculty of engineering technology. He teaches in bachelor and master degree courses in design methodology, strength of materials and numerical methods for design (FEA, CAE). He obtained a Phd in material sciences teaching in UKF (University Constantine the philosopher, Nitra, Slovacia). He is program director for the degree studies in electro-mechanical engineering. Peter Arras is in charge of international relations for the department of engineering technology at campus De Nayer. He is member of the faculty expert board on international relations. 10+ years' professional project management experience as project manager and contact for educational European projects (tempus, KA2, Erasmus mundus, KA1). 14 years of being coordinator for retraining programs for longtime unemployed. 40+ peer-reviewed scientific publications: http://lirias.kuleuven.be/cv?Username=U0069202
Sergey SUBBOTIN, NUZP	Dr. Sc. (habilitated), Professor, Head of the Department of Software Tools of the National University "Zaporizhzhia Polytechnic". https://orcid.org/0000-0001-5814-8268 https://www.scopus.com/authid/detail.uri?authorId=7006531104 https://www.webofscience.com/wos/author/record/1851937 https://scholar.google.com/citations?user=S113KrgAAAAJ&





MENTOR: NAME, SURNAME, AFFILIATION	SHORT DESCRIPTION
Sergiy BUSHUYEV, KNUCA	The head of the Project Management Department of the Kyiv National University of Construction and Architecture, Kyiv, Ukraine. Doctor of Science, Professor S. Bushuev is the head of the Project Management Chair, Academician of the National Academy of Science, Academician of The Academy of Construction of Ukraine, Honored Scientist of Ukraine, Professor of Sydney University, Member of Board of Directors of World Association of Project Management, Academician of New York Academy of Science, Laureate of the State Prize of Ukraine in Science and Technology. He is the member of the Board of Directors of the International Association of project management (IPMA), member of the certification Department, head of certification validation panel, the first assessor in 7 countries, international validator of certification programs 5 countries. He is the member of the working group of the certification program of technological maturity of organizations IPMA Delta. He is the author and the co-author more than 200 science papers and books in project management. The main scientific research is Company Development on the Basis of Formation of Model of Technological Maturity in Project Management. https://scholar.google.com.ua/citations?user=Plk80zYAAAAJ&hl=ru https://scholar.google.com.ua/citations?user=Plk80zYAAAAJ&hl=ru https://www.scopus.com/authid/detail.uri?authorld=6506632335 https://orcid.org/0000-0002-7815-8129 https://orcid.org/0000-0002-7815-8129 https://www.webofscience.com/wos/author/record/AAC-8938-2019 https://publons.com/researcher/2042903/sergey-bushuyev/
Yashar HAJIYEV, ASOIU	Associated professor (docent) of Azerbaijan State Oil and Industry University. Department of Computer Engineering. Visiting scholar to University of Denver, School of Engineering and Computer Sciences, Colorado, US. JFDP Program of American COUNCILS for International Education. For 2001-2011 Country coordinator of 'Open Global Internet Policy Imitative' (GIPI) International program on integration of state-of-the-art ICT tools into country education and public systems. OSI, Markle Foundations and USAID; In 2007 participated in program American Higher- Education system, university administrating, curriculum development', at the University of Kansas USA. Country coordinator of project 'Monitoring of the Information Society in NIS countries', European Commission contract no: 30-ce; The disciplines thought – Cyber-Physical Systems; Formal Languages and Theory of Automation; Data Structure and Algorithms; Embedded Systems; Digital Systems; Microprocessors; Computer architecture; Circuit Theory; Electronics; Decision Making.
Yevheniia BOIKO , KNUCA	PhD, Associate Professor of Project Management Department of Kyiv National University of Construction and Architecture, Ukraine. Author of more than 50 scientific publications and educational/methodical works, including 3 scientific publications (SCOPUS). Main areas of scientific research: sustainable management, information technologies in project management, lean production, lean education. orcid.org/0000-0002-2000-4258







LECTURES AND E-LEARNING CONTENT

MODULE	CONTENT
M01. Data	Data Gathering and Analysis
Analytics for	Sergey Subbotin, NUZP (on-line)
Work	Data analysis is a technology aiming to find relations in the data and to represent them to
	the user.
	Using statistics, machine learning as a part of Al and modern software tools this
	technology makes possible to provide dividing data into groups, identifying similar
MOO Dinital	observations, data classification, data visualization, and model building
M02. Digital	Seminar by Asif Ganbayev(ASCCA):
Technologies	
	In this seminar, we will delve into the fascinating world of embedded systems and explore
	the essential concepts and skills covered in the embedded systems course. This seminar
	aims to provide a comprehensive overview of the course, focusing on key topics such as
	microcontrollers, embedded systems architecture, programming, interfacing, and control
	systems.
	Comings Elvin Alismayor (ACCCA):
	Seminar Elvin Alirzayev (ASCCA):
	During the class we will discuss what is Pitesia, the historical heakground, feetures
	During the class we will discuss what is Bitcoin, the historical background, features, buying and selling methods, why bitcoin, troubles and challenges in bitcoins.
M03. Industry 4.0	Industry 4.0 Strategies
Wios. Illudstry 4.0	Consider strategies to incorporate Industry 4.0 technologies when getting connected.
	• Reflect on how Industry 4.0 comes into view in the case study.
	Suggest technologies like IOT, Digital twins for integration in the workspace design.
	(How to capture data, how to use data (e.g. environmental data), simulation of office
	capacity, time zones in distributed teams)
	Consider a practice for digital and physical rapid prototyping for understanding of
	products at different locations (additive manufacturing).
M04. Distributed	Lecture by Olena Verenych (KNUCA):. "Hiring in Distributed Teams and/or
Teams	Psychological types"
	The world has recently become broader than we thought. Up to 50% of vacancies are
	related to remote work. The pandemic and the war have demonstrated that working
	remotely is possible. However, how do you hire an employee if you never see or won't
	see them in person for an interview in the office? How can a distributed team be
	assembled that will work together effectively, achieve results, and be united by nothing
	but the invisible lines of the Internet? What are the new requirements for candidates, and how can you avoid making a mistake in choosing a team member? If you're interested in
	learning about the new trends in hiring employees for distributed teams, and if you're
	eager to join the discussion and collectively identify specific trends through discourse,
	then this is the session for you. I look forward to the lecture and hope you will enjoy it.
	and it and to the deceler for you. Floor forward to the location and hope you will onjoy it.
	Lecture by Sergiy Bushuyev (KNUCA):The existing Integrated Intelligence Model for
	managing innovative projects and programs have been explored by dynamic elements.
	New architecture includes 2 elements – fluid intelligence and crystallized intelligence. The
	competency-based approach is considered the basis for the creation of a Dynamic
	Integration Intelligence Model (DIIM) for managing innovative projects. The model is
	based on the extension of the system of five groups of interrelated competencies:
	emotional, social, cognitive, business and technical by fluid intelligence, crystallized
	intelligence. Fluid intelligence using like the engine in the application of DIIM. Crystallized
	intelligence is used as an umbrella for emotional, social, cognitive,
	emotional, social, cognitive, business and technical by fluid intelligence, crystallized intelligence. Fluid intelligence using like the engine in the application of DIIM. Crystallized







	business and technical intelligence. For each group of intelligence defined key functions and competencies. The architecture Dynamic Integrated Intelligence Model is defined. For the assessment of the competencies of the innovation project management team, the IPMA Delta model was used.
M05 Work 4.0	Lecture by Mykhailo Dombrovskyi (WUNU). Re-imaging work systems with the ongoing Industry 4.0 digital transformation in the value adding production and logistic processes innovative development: The concept of Work 4.0. Trends and scenarios regarding work organisation and digital technological innovations. Digital technological developments fusion. Key dimensions of Industry 4.0 digital transformation and the innovative impact on work-related outcomes. Work as the key locus of the digital transformation. The coexistence of humans and technology in the digitalised production environment from a human-cyber-physical systems (HCPS) perspective. Lecture by Anatoliy Sachenko (WUNU):
	Work 4.0 production system development based on Reference Architecture Model Industrie 4.0: State-of-art in development of the reference architectures and frameworks to accelerate the growth of the Work 4.0 projects. Multidimensional technological architecture to guide structured development and promote work 4.0 interoperability, vision and scenarios.
	Industry 4 projects design and implementation regarding work aspects.
M06 Safe Workplaces	Ergonomic Considerations
	 Incorporate ergonomic principles into the workspace design to ensure the physical well-being of distributed team members. Address proper workstation setup, adjustable furniture, and healthy posture practices. Safety Measures: Implement safety measures to prevent accidents and promote a safe working environment. Include guidelines for electrical safety, fire prevention, and emergency protocols in the workspace design. Mental Health Support: Address the mental health challenges associated with remote work. Incorporate initiatives such as regular breaks, stress management resources, and virtual support networks to promote well-being. Accessibility: Design a workspace that is accessible to individuals with disabilities or special needs. Consider the use of assistive technologies, accessible interfaces, and inclusive design principles. Health and Hygiene Practices: Promote health and hygiene practices within the workspace design. Include guidelines for hand hygiene, sanitation, and proper ventilation to ensure the well-being of distributed team members.
M07. Managing Digital Change	Managing digital changes involves several key topics that need to be incorporated to ensure a successful and smooth transition. These topics cover various aspects of the transformation process, change management, and organizational readiness. Here are some key topics to consider when managing digital changes: 1. Digital strategy and vision: 2. Leadership and Stakeholders engagement:





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	 Change Management and Communication: Digital skills and training: Data and Security Governance: Technology Infrastructure and Integration:
	7. User Experience and Customer-Centricity:
	8. Agile and Iterative Approach:
	9. Risk Management and Contingency Planning:
	10. Measuring and Monitoring Performance:
	11. Collaboration and Partnerships:
M08. Life Cycle Thinking and Sustainable	Lecture by Yevheniia Boiko (KNUCA): Circular economy.Product life cycle: contextualization and concept.
Management	Lecture by Carolina Cruz-Villazon (UPV/EHU): The United Nations 2030 Agenda for Sustainable Development (SDG) is a plan to improve life in the planet, and is an indicator of the importance that people and planet have for all of us. For engineers and project managers, these SDGs are a lighthouse which should guide all our projects. They need tools to address these new challenges. This module in a wider vision brings the foresight of the impact on all stakeholders, including environment. It consists of: an introduction to sustainability aspects (economic, environmental and social) and their impacts; Sustainable Project Management; Sustainability Canvas; Life Cycle Thinking; Ecodesign; and circular economy. The module is intended to be developed by autonomous students jointly developing knowledge with the aid of online materials, teachers' guide and peers collaboration.
	Lecture by Jon Aretxaga (UPV/EHU): In projects it is important to evaluate the economic aspect involved. The economic principles for evaluating the profitability and utility of a project will be explained. In the course a case study will be assigned in order to implement the theory explained beforehand, as well as the theory of cost-benefit analysis, with the purpose of carrying out an economic assessment of that project by means of profitability and utility measurement. The application of this economic analysis will be analysed.
M09. Developing	• Explore opportunities for collaboration and knowledge sharing among distributed teams.
Digital Business Ecosystems	• Propose strategies for building a digital business ecosystem within the market research company, fostering collaboration both internally and externally.
LCOSYSTERIS	Digital Platforms and Tools: Identify digital platforms and tools that can facilitate
	collaboration and knowledge sharing.
	Consider project management software, online collaboration platforms, and data sharing.
	tools to create a connected ecosystem.
	Partner Engagement: Develop strategies to engage external partners and stakeholders
	within the digital business ecosystem.
	• Explore possibilities for joint ventures, strategic alliances, and knowledge exchange to enhance innovation and collaboration.

protect sensitive information and ensure compliance with regulations.

business ecosystem.

within the digital business ecosystem.

and fostering a culture of innovation and growth

· Data Privacy and Security: Address data privacy and security concerns within the digital

• Implement measures such as secure data transfer, encryption, and access controls to

· Continuous Learning and Development: Promote continuous learning and development

• Establish mechanisms for sharing best practices, conducting virtual training sessions,