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Road Transportation Systems Engineering Development in the Sub-Saharan Africa - Modern EU Master Programme & Capacity Building
ERASMUS-EDU-2023-CBHE

WP2. T2.2 Deeply analyses of study programs at Democratic Republic of Congo and Cameroon universities - survey analysis in bachelor's degree with regards to The European Union

19.11.2024





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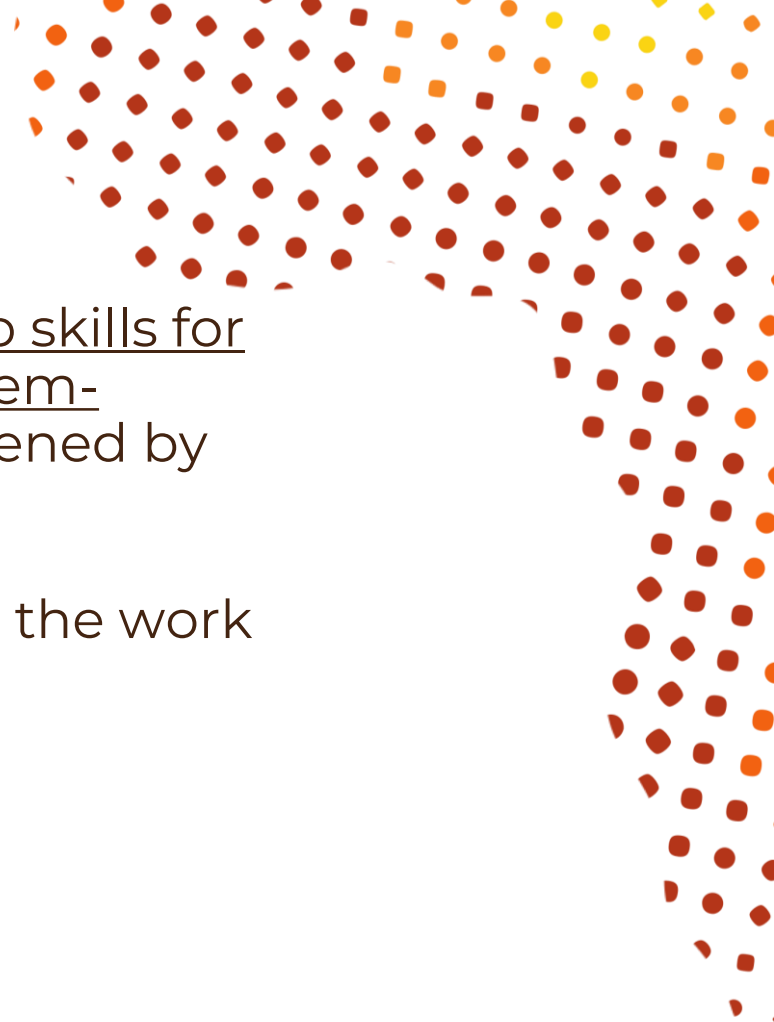
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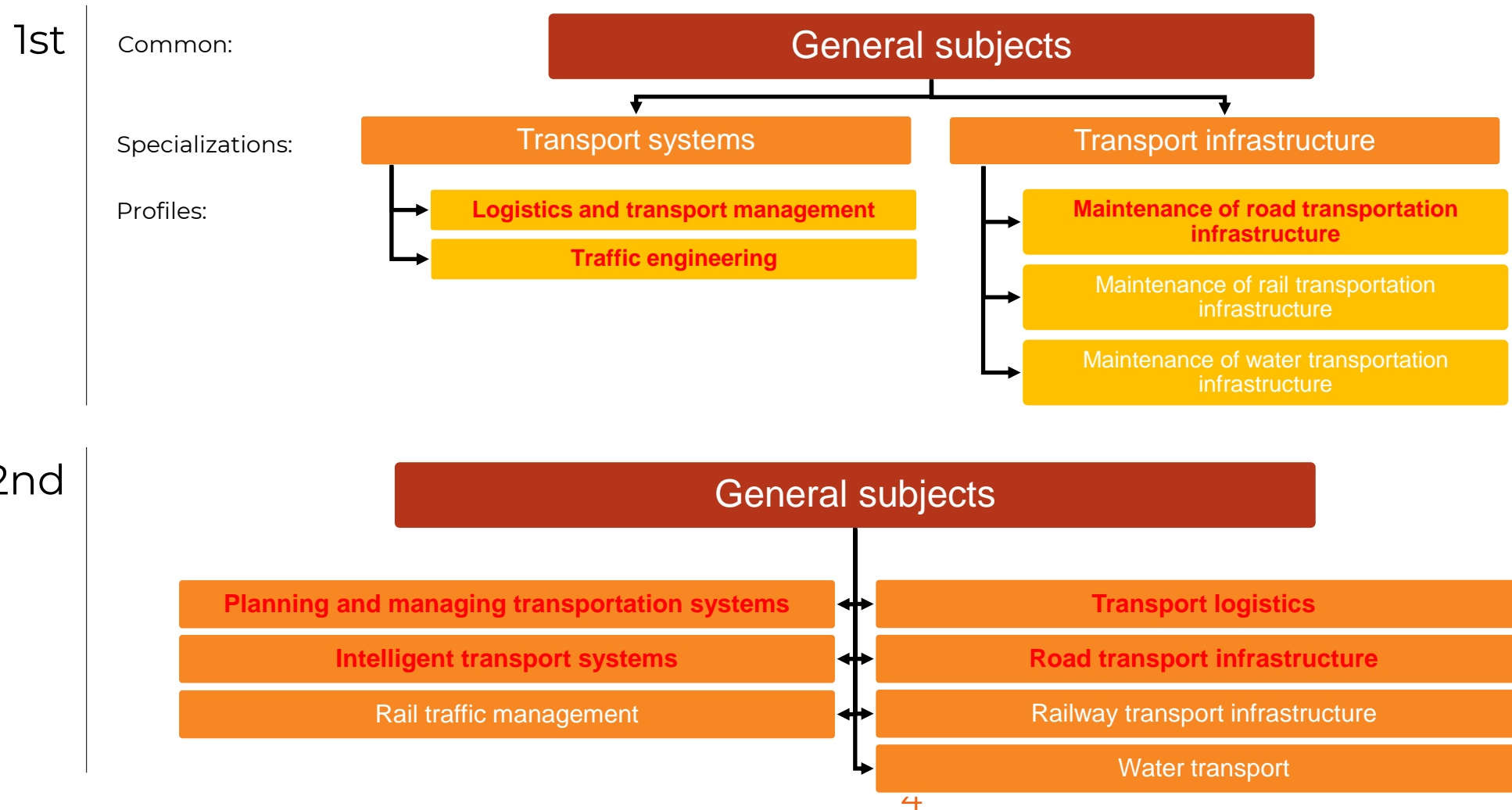
Our teaching goals

- The main objective of the Transport program is to develop skills for independently devising methods and processes for problem-solving using the engineering knowledge acquired, deepened by additional practical and theoretical aspects.
- The aim is to teach students practical elements related to the work of a transport engineer.
- However, this practice should be grounded in theoretical fundamentals and highlight the potential of science for technology development and solving new challenges.

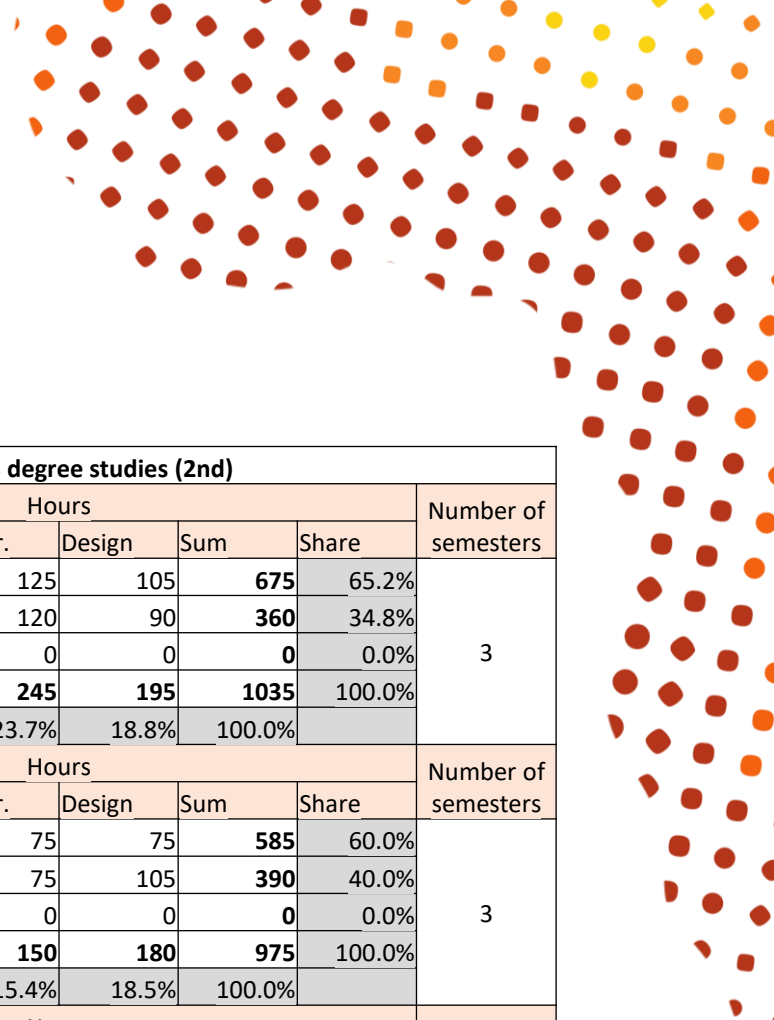


The structure of study programs

Gdańsk University of Technology



The hourly dimension of courses



	Engineering studies (1st)								Master's degree studies (2nd)								
	ECTS	Hours						Number of semesters	ECTS	Hours						Number of semesters	
		Lectures	Exercises	Labor.	Design	Sum	Share			Lectures	Exercises	Labor.	Design	Sum	Share		
Gdańsk	General subjects	150	900	765	210	135	2010	78.4%	7	48	240	205	125	105	675	65.2%	3
	Specialization	45	135	60	75	120	390	15.2%		45	120	30	120	90	360	34.8%	
	Profile	15	75	30	0	60	165	6.4%		0	0	0	0	0	0	0.0%	
	Sum	210	1110	855	285	315	2565	100.0%		93	360	235	245	195	1035	100.0%	
	Share		43.3%	33.3%	11.1%	12.3%	100.0%				34.8%	22.7%	23.7%	18.8%	100.0%		
Warsaw	General subjects	158	915	585	225	195	1920	74.4%	7	61	375	60	75	75	585	60.0%	3
	Specialization	52	330	60	135	135	660	25.6%		31	135	75	75	105	390	40.0%	
	Profile	0	0	0	0	0	0	0.0%		0	0	0	0	0	0	0.0%	
	Sum	210	1245	645	360	330	2580	100.0%		92	510	135	150	180	975	100.0%	
	Share		48.3%	25.0%	14.0%	12.8%	100.0%				52.3%	13.8%	15.4%	18.5%	100.0%		
Cracow	General subjects	182	890	420	355	421	2086	86.9%	7	56	201	60	90	145	496	50.8%	3
	Specialization	0	0	0	0	0	0	0.0%		34	180	30	105	45	360	36.9%	
	Profile	28	150	105	60	0	315	13.1%		0	60	0	15	45	120	12.3%	
	Sum	210	1040	525	415	421	2401	100.0%		90	441	90	210	235	976	100.0%	
	Share		43.3%	21.9%	17.3%	17.5%	100.0%				45.2%	9.2%	21.5%	24.1%	100.0%		

Specialities

based mainly on GUT

- Planning and managing transportation systems
- Intelligent transport systems, Traffic engineering
- Transport logistics
- Road transport infrastructure

Specialities

based mainly on GUT

Planning and managing transportation systems

- Sustainable transport and mobility planning
- Transportation network planning
- Development strategy and transportation problem-solving
- Mobility management
- Safety management
- Forecasting the development of transportation systems and processes considering their dynamics, needs, and changes in transportation user behavior
- Modeling, simulating, designing, and operating elements of road, rail, and water transport infrastructure for passenger and freight transportation at micro, meso, and macro levels
- Evaluation of transportation solutions considering capacity, impact on safety and the environment, economic and financial efficiency, and feasibility.

Specialities

based mainly on GUT

Planning and managing transportation systems

- Main subjects:

Subject	ECTS	Lectures	Exercises	Labor.	Design	Sum
Transportation process modeling	4	30	0	0	30	60
Transportation systems planning	3	15	0	15	15	45
Mobility management	3	15	0	15	15	45
Environmental aspects in transportation development	3	15	0	15	15	45
Investment process management	2	15	15	0	0	30

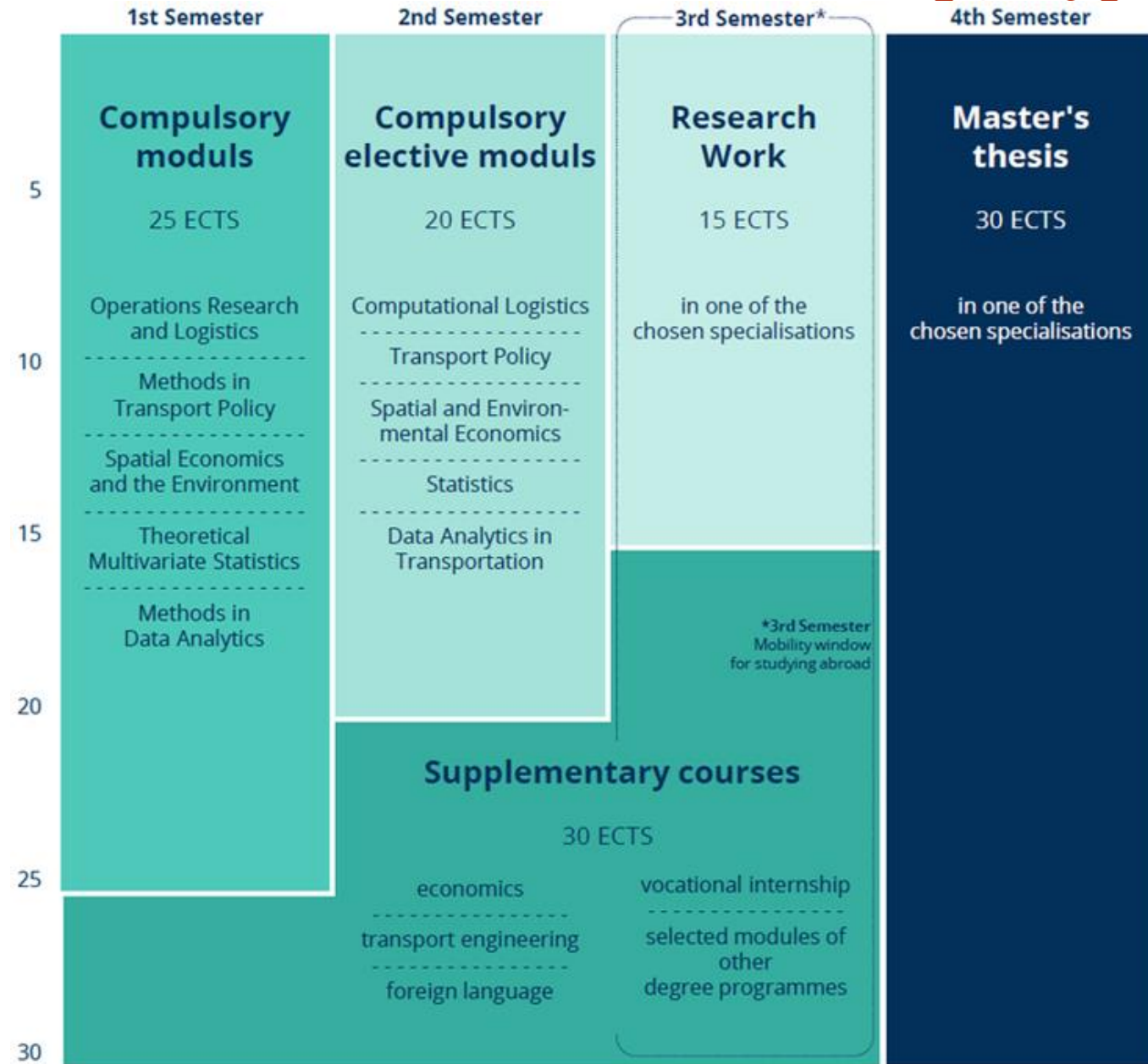
Germany – transport studies

- In Germany, an Engineering Bachelor's degree requires 180 to 210 ECTS credits over 3 to 3.5 years
- Master's programs demand 90 to 120 ECTS credits and take 1.5 to 2 years to complete, depending on prior education.
- The total ECTS a student needs to take for both Bachelor's and master's program is 30

	ECTS	Year of Studies
Bachelor's degree	180-210	3 - 3.5
Diploma-Ingenieur	-	5
Master's degree	90-120	1.5 - 2

Masters' - TUD

— 4 semesters
and 90 ECTS



Université Officielle de Ruwenzori

- UOR offers bachelor's and master's degree programmes in Civil Engineering (master's **will start or started** in 2024),
- Bachelor's with the option of 1 pre-polytechnics year. 180 credits ECTS (with pre 240).
- Master's Hydraulics and Hydraulic Constructions or Structures and Civil Engineering Works - 120 ECTS

Universite Libre des Pays des Grands Lacs

- ULPGL offers bachelor's and master's degree programmes in Civil Engineering (master's **will start or started** in 2024),
- Bachelor's with the option of 1 pre-polytechnics year. 180 credits ECTS (with pre 240).
- Master's Hydraulics and Hydraulic Constructions or Structures and Civil Engineering Works - 120 ECTS

Université de l'Assomption au Congo

- UAC offers bachelor's and master's degree programmes in Civil Engineering (master's **will start or started** in 2024),
- Bachelor's with the option of 1 pre-polytechnics year. 180 credits ECTS (with pre 240).
- Master's Structures and Civil Engineering Works - 120 ECTS

Institute of Technology of Industry, Management and Entrepreneurship

- INTIME offers bachelor's degree programme in Civil Engineering
- Bachelor's 3 years – 240 ECTS.
- No master's studies Master's yet

University of Dschang

- UDS offers bachelor's degree programme in Civil Engineering
- Bachelor's 3 years – 240 ECTS.
- No master's studies Master's yet

Summary

- DR Congo – AfroTrans project (the 12 new courses) will be a part of existing Master's program
- Cameroon UDS – AfroTrans project will be a part of new Master's program - we need accreditation
- Cameroon INTIME – AfroTrans project will be a part of new Master's program – we need accreditation
- We should decide which courses will be a part of the new program

12 new courses

- We should prepare a minimum of 12 new courses
- We can modify it according to your needs
- We can add existing courses from EuroS@P, InfRo@d or another Erasmus+ project

Courses – Erasmus+

Filters

Project

Project Status

Completed (1088)

With Results (1088)

Project labels/awards

Good Practice (434)

European Language Label (3)

Project factsheets

FactSheets (4)

European Year Cultural Heritage (3)

Actions

KA2: Cooperation for innovation and the exchange of good practices (1088)

Action Types

KA203: Strategic Partnerships for higher education

Search results

Showing 1 - 10 of 1,088 projects , filtered by:

New Innovative Curricula/Educational Methods/Development Of Training Courses X

KA2: Partnerships For Cooperation And Exchanges Of Practices X With Results X HED: Higher Education X [Clear filters](#)

Sort by Updated (latest first) Download results (XLS) Limited to 1000 projects View as Grid Map

Interprofessional experiential learning (IPE) solutions: equipping the qualified dementia workforce to champion evidence informed improvement to advanced dementia care and family caring (Palliare).

Project Status:	Start date:	End date:
Completed	01 September 2014	30 September 2016

In 2008 the estimated cost of dementia within Europe (EU27) was €160.3 billion, equivalent to €22,194 per person with dementia. Between one third and a half of people living with dementia in Europ...

Topics: Health And Wellbeing New Innovative Curricula/Educational Methods/Development Of Training Courses

Labels: Good practice

Call Year: 2014 **Action Type:** Strategic Partnerships for higher education

Countries Covered: United Kingdom Spain Sweden Slovenia Portugal Czechia Finland

Courses – Erasmus+

The screenshot displays the Erasmus+ website interface with three course detail panels. Each panel includes a title, project status, start and end dates, a description, topics, fields, activity years, and call year information. The panels are for 'Developing interdisciplinary competencies for Smart Logistics', 'Modern logistics learning: Certified module on master study level', and 'Systems for Aerial Surveillance and Security'.

Panel 1: Developing interdisciplinary competencies for Smart Logistics

- Project Status:** Completed
- Start date:** 31 December 2020
- End date:** 30 December 2023
- Topics:** Enterprise, Industry, SMEs And Entrepreneurship
- Fields:** VET: Vocational Education and Training (5), SCH: School Education (4), HED: Higher Education (4), ADU: Adult Education (2), YOU: Youth (1)
- Activity Years:** 2023 (1), 2022 (2), 2021 (2), 2020 (3), 2019 (2)
- Call Year:** 2020
- Action Type:** Strategic Partnerships for higher education
- Countries Covered:** Denmark, Belgium, Italy, Netherlands

Panel 2: Modern logistics learning: Certified module on master study level

- Project Status:** Completed
- Start date:** 01 September 2017
- End date:** 31 December 2020
- Topics:** Entrepreneurial Learning - Entrepreneurship Education
- Fields:** VET: Vocational Education and Training (5), SCH: School Education (4), HED: Higher Education (4), ADU: Adult Education (2), YOU: Youth (1)
- Activity Years:** 2023 (1), 2022 (2), 2021 (2), 2020 (3), 2019 (2)
- Call Year:** 2017
- Action Type:** Strategic Partnerships for higher education
- Countries Covered:** Poland, Czechia, Hungary, Slovenia, Croatia

Panel 3: Systems for Aerial Surveillance and Security

- Project Status:** Completed
- Start date:** 01 October 2016
- End date:** 30 September 2018
- Fields:** VET: Vocational Education and Training (5), SCH: School Education (4), HED: Higher Education (4), ADU: Adult Education (2), YOU: Youth (1)
- Activity Years:** 2023 (1), 2022 (2), 2021 (2), 2020 (3), 2019 (2)
- Call Year:** 2016
- Action Type:** Strategic Partnerships for higher education
- Countries Covered:** Denmark, Belgium, Italy, Netherlands

Courses – Erasmus+

22:57 Mon 18 Nov

erasmus-networks.ec.europa.eu

1 of 40

European Commission

Erasmus+ projects

Digital Transformation for Sub-Saharan Africa

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prepared for the

Erasmus+ Week 2024 for Sub-Saharan Africa

The image is a screenshot of a presentation slide. At the top left, it shows the time '22:57' and date 'Mon 18 Nov'. The top center has the URL 'erasmus-networks.ec.europa.eu'. Below the URL is a navigation bar with '1 of 40' on the left and the European Commission logo in the center. The main content area has a blue background with a digital pattern of lines and dots. The title 'Erasmus+ projects' is in white, followed by 'Digital Transformation for Sub-Saharan Africa' in a larger white font. Below the title is a photograph of three young people (two women and one man) smiling and looking at a device. At the bottom, there is a copyright notice '© Shutterstock Daniel M Ernst' and the text 'prepared for the Erasmus+ Week 2024 for Sub-Saharan Africa'.

12 new courses

- In 4 universities there are Fundamentals of Transport Systems and Processes course elements in other courses.
- Transport Research and Analysis is represented in UAC study programme.
- Sustainable Transport Planning is not represented in any of the universities.

12 new courses

- In 4 universities there are Fundamentals of Transport Systems and Processes course elements in other courses.
- Transport Research and Analysis is represented in UAC study programme.
- Sustainable Transport Planning is not represented in any of the universities.

12 new courses

- Road Infrastructure Safety Management is represented in INTIME study programme
- Logistics management is not represented in any of the universities.
- In 4 universities there are Road construction and maintenance course elements in other courses.



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AfroTrans

project

