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DeCAIR Project Experience

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Developing Curricula for Artificial Intelligence and Robotics (DeCAIR)
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Outline

- Project Idea
- Forming the Project Consortium
- The Project Objectives
- Logical Framework Matrix (LFM)
- The Project Planned Work Packages

Artificial Intelligence (AI)

- AI is the new electricity.
- It has the potential to transform every industry and to create huge economic value.



AI Now

1. Recognizes our voices and photos
2. Recommends who to friend and what to watch and read
3. Helps us in searching and retrieving information
4. Translates natural languages
5. Drives vehicles
6. Secures our cities, systems and detects violations
7. Provides cheaper solutions with acceptable qualities



Robots

1. Robots provide efficient, fast, and reliable solutions for manufacturing many products.
2. Trainable, autonomous and agile robots are having increasing applications in our lives.
3. With AI, robots can impact every aspect of our lives.



AI and Robotics (AIR) Technologies

- No country or business could afford being left behind in developing AIR technologies and using them to provide better and more competitive products and services.

DeCAIR Project

- Local Team
- DeCAIR: Developing Curricula for Artificial Intelligence and Robotics
- **Project objective:** Developing curricula in the areas of Artificial Intelligence and Robotics in the Partner Countries to qualify experts and graduate students who can exploit these emerging, revolutionary technologies to solve local and regional problems, create new jobs, and to start new ventures and businesses.

DeCAIR Project

- DeCAIR: Developing Curricula for Artificial Intelligence and Robotics
- Three-year project: Jan 15, 2021 – Jan 14, 2024
- Funded by Erasmus+ Capacity Building in the field of Higher Education program

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Forming the Project Consortium

- **Short project description**

- Objectives
- Grant sought
- Partners
- Roles and benefits

- **Composition**

- Three universities from Jordan
- Two universities from another Region 3 country
- Five European partners

Consortium

No		Partner	Country	Type
1	UJ	The University of Jordan	Jordan	Partner Countries
2	JUST	Jordan University of Science and Technology	Jordan	
3	TTU	Tafila Technical University	Jordan	
4	LU	Lebanese University	Lebanon	
5	BAU	Beirut Arab University	Lebanon	
6	UNIPI	University of Pisa	Italy	Program Countries
7	UNIGE	University of Genoa	Italy	
8	UGR	University of Granada	Spain	
9	UST	University of Stuttgart	Germany	
10	CTD	Creative Thinking Development	Greece	

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Wide Project Objective

- **Project objective:** Developing curricula in the areas of Artificial Intelligence and Robotics in the Partner Countries to qualify experts and graduate students who can exploit these emerging, revolutionary technologies to solve local and regional problems, create new jobs, and to start new ventures and businesses.

Specific Project Objectives

1. **Qualifying experts** in the fields of **AI and robotics (AIR)** who can conduct research and solve problems by utilizing the technologies of AIR through the **establishment** of **new master and bachelor programs**
2. **Building and improving the teaching capacity** in AIR at the Jordanian and Lebanese partner universities
3. **Improving** the AIR **capabilities** of **graduates from existing** master and bachelor **programs**

Project Objectives – cont.

4. **Establishing and developing modern AIR labs** in the partner Jordanian and Lebanese universities to improve the practical skills of university graduates
5. **Building networks** of highly qualified professionals in the areas of AIR among **South Mediterranean** and **European countries**
6. **Improving collaboration** with the local, regional and European **industry** and **community** for applying AIR technologies in **solving industry** and **community problems**
7. **Disseminating** and **implementing modern teaching methods** such as flipped learning, and project-based learning

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Logical Framework Matrix (LFM)

Wider Objective	Indicators of Progress	How indicators will be measured		
Specific Project Objectives	Indicators of Progress	How indicators will be measured	Assumptions and risks	How the risks will be mitigated
Outputs and Outcomes	Indicators of Progress	How indicators will be measured	Assumptions and risks	How the risks will be mitigated
Activities	Inputs		Assumptions and risks	How the risks will be mitigated

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Work Packages

Type	Title
Preparation	
Development	
Quality	
Dissemination	
Management	

Work Packages

Type	Title
Preparation	Surveys and needs identification
Development	
Quality	Quality assurance
Dissemination	
Management	Management

Work Packages

Type	Title
Preparation	Surveys and needs identification
Development	
Quality	Quality assurance
Dissemination	
Management	Management

No	Objective	Work Package
1	Qualifying experts in the fields of AI and robotics (AIR) who can conduct research and solve problems by utilizing the technologies of AIR through the establishment of new master and bachelor programs	2, 3, 4
2	Building and improving the teaching capacity in AIR at the Jordanian and Lebanese partner universities	
3	Improving the AIR capabilities of graduates from existing master and bachelor programs	
4	Establishing and developing modern AIR labs in the partner Jordanian and Lebanese universities to improve the practical skills of university graduates	
5	Building networks of highly qualified professionals in the areas of AIR among South Mediterranean and European countries	
6	Improving collaboration with the local, regional and European industry and community for applying AIR technologies in solving industry and community problems	
7	Disseminating and implementing modern teaching methods such as flipped learning, and project-based learning	

Work Packages

Type	No.	Title	Lead
Preparation	WP1	Surveys and needs identification	
Development	WP2	Development of new MSc and BSc programs in AIR	
	WP3	Implementing the new MSc program in UJ	
	WP4	Implementing the new BSc program in TTU	
	WP5		
	WP6		
	WP7		
	WP8		
	WP9		
	Quality	WP10	Quality assurance
Dissemination	WP11		
	WP12		
Management	WP13	Management	

No	Objective	Work Package
1	Qualifying experts in the fields of AI and robotics (AIR) who can conduct research and solve problems by utilizing the technologies of AIR through the establishment of new master and bachelor programs	2, 3, 4
2	Building and improving the teaching capacity in AIR at the Jordanian and Lebanese partner universities	7
3	Improving the AIR capabilities of graduates from existing master and bachelor programs	5, 6
4	Establishing and developing modern AIR labs in the partner Jordanian and Lebanese universities to improve the practical skills of university graduates	8
5	Building networks of highly qualified professionals in the areas of AIR among South Mediterranean and European countries	Diss 12
6	Improving collaboration with the local, regional and European industry and community for applying AIR technologies in solving industry and community problems	Diss 11
7	Disseminating and implementing modern teaching methods such as flipped learning, and project-based learning	9

Work Packages

Type	No.	Title	Lead
Preparation	WP1	Surveys and needs identification	JUST
Development	WP2	Development of new MSc and BSc programs in AIR	UNIGE
	WP3	Implementing the new MSc program in UJ	UJ
	WP4	Implementing the new BSc program in TTU	TTU
	WP5	Improving curricula of current MSc programs in JO and LB	UST
	WP6	Improving curricula of current BSc programs in JO and LB	UGR
	WP7	Building capacity in AIR in universities of Partner Countries	UNIFI
	WP8	Establishing and developing AIR labs	BAU
	WP9	Implementing modern teaching methods	UJ
	Quality	WP10	Quality assurance
Dissemination	WP11	Collaboration with industry and community	LU
	WP12	Results dissemination	LU
Management	WP13	Management	UJ

Detailing the activities

WPI: Surveys and needs identification

No.	Activity
1.1	Identifications of needs for AIR expertise and professionals in Jordan and Lebanon
1.2	Survey and evaluation of similar AIR master programs
1.3	Survey and evaluation of AIR courses in similar bachelor programs
1.4	Survey of training needs
1.5	Survey of facilities and equipment
1.6	Surveys report

Summary

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Thank You

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Logical Framework Matrix (LFM)

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