

## 618535-EPP-1-2020-1-JO-EPPKA2-CBHE-JP

## Project Information

|                     |   |
|---------------------|---|
| Reference Number    | 618535-EPP-1-2020-1-JO-EPPKA2-CBHE-JP                         |
| Application Title   | Developing Curricula for Artificial Intelligence and Robotics |
| Application Acronym | DeCAIR  |
| Action Code         | CBHE-JP   |
| Project Start Date  | 15-nov.-2020  |
| Project End Date    | 14-nov.-2023  |
| Duration (months)   | 36  |
| Grant Requested     | 850.108,00  |
| EUD Consultation    | YES   |

## Coordinator

|                      |                                |
|----------------------|--------------------------------|
| Name of Organisation | UNIVERSITY OF JORDAN           |
| Street               | QUEEN RANIA AL ABDULLAH STREET |
| City                 | Amman                          |
| Country              | Jordan                         |
| Website              | www.ju.edu.jo                  |

## International Dimension

|                     |                                |
|---------------------|--------------------------------|
| Regional Focus      | Intra-Regional                 |
| Involved Regions    | R3                             |
| Application Country | JO                             |
| Partner Countries   | LB (2), JO (3)                 |
| Programme Countries | IT (2), ES (1), EL (1), DE (1) |

## Project Characteristics, Aims and Objectives

|                          |  |
|--------------------------|--|
| Project Type             | Multi-country project  |
| Specific Activity        | Curriculum development   |
| Subject/Thematic Area    | Engineering and engineering trades   |
| CBHE Actions             | Improve the level of competences and skills in HEIs by developing new and innovative education programmes  |
|                          | Improve the quality of higher education and enhance its relevance for the labour market and society  |
| CBHE Aims and Objectives | Support eligible Partner Countries to address the challenges facing their higher education institutions and systems, including those of quality, relevance, equity of access, planning, delivery, management, governance |
|                          | Support the modernisation, accessibility and internationalisation of the higher education field in the eligible Partner Countries  |

Recently, artificial intelligence and robotics (AIR) have been making huge advances enabling them to enter new applications, constituting disruptive forces to various aspects of our lives. Developing countries such as Jordan and Lebanon suffer from slowing economies and high unemployment rates. These problems will worsen as AIR technologies succeed in automating more jobs and shifting production and jobs to the countries that employ these technologies to efficiently offer better services and products. Therefore, it is essential for all countries to engage in using and developing these technologies to create new businesses, improve existing products and services, and foster human prosperity.

The consortium of this proposal is taking the initiative of "Developing Curricula for Artificial Intelligence and Robotics (DeCAIR)"; a project that intends to develop curricula in the areas of AIR through new master's and bachelor programs. These programs will give students opportunities to specialize in AI technologies, Robotics technologies, or using AI solutions to develop smart and autonomous robots that can solve unconventional problems. Additionally, DeCAIR will improve the curricula of existing masters and bachelor programs in the areas of AIR, establish relevant modern laboratories, and implement modern teaching methods such as flipped learning and project-based learning. All this will improve the graduates' practical skills and enable them to exploit these revolutionary technologies to solve local and regional problems, create new jobs, and to start new ventures.

Other project aims are to improve the teaching capacity at universities of the Partner Countries, build a network of highly qualified professionals in these areas among partner universities, and improve collaboration with local and regional industries and community for applying AIR technologies in solving industry and community problems.

### Project Partnership

| Role              | Region    | Participant Organisation Name               | Country   |
|-------------------|-----------|---|-----------|
| <b>Contractor</b> | <b>R3</b> | <b>UNIVERSITY OF JORDAN</b>                 | <b>JO</b> |
| Partner           | R3        | BEIRUT ARAB UNIVERSITY                      | LB        |
| Partner           | R3        | JORDAN UNIVERSITY OF SCIENCE AND TECHNOLOGY | JO        |
| Partner           | R3        | TAFILA TECHNICAL UNIVERSITY                 | JO        |
| Partner           | R3        | UNIVERSITE LIBANAISE                        | LB        |
| Partner           | EU        | CREATIVE THINKING DEVELOPMENT               | EL        |
| Partner           | EU        | UNIVERSIDAD DE GRANADA                      | ES        |
| Partner           | EU        | UNIVERSITA DEGLI STUDI DI GENOVA            | IT        |
| Partner           | EU        | UNIVERSITA DI PISA                          | IT        |
| Partner           | EU        | UNIVERSITY OF STUTTGART                     | DE        |