

Specific Objectives:

- To implement innovative master degree in health informatics in partner country universities.
- To develop, validate and implement twelve courses in health informatics using innovative education methodology following European best practices (such as Bologna system and EQF).
- To develop training modules about health informatics to be integrated into the course material and student projects; with emphasis on medical records management, health analytics, and data processing.
- To train and expose staff members of partner universities on modern teaching and research practices in the health informatics domain.
- To establish an up-to-date health informatics teaching lab.
- To develop platform as a repository of Open Educational Resources (OER) on health informatics educational and training material as well as best practices.
- To Strengthen and establish academic and research networks
- To develop cooperation models to integrate academia and health profession.

Project Summary:

This project proposes the development of an MSc degree program that covers the core and new trends in Health Informatics (HI) and incorporate expertise at EU institutions and six MENA universities. The program will use modern learning and research approaches to support the program curriculum on new HI trends. Improving the efficiency of the care process, and enhancing the quality and outcome of medical treatment are underlying themes of the master program in HI. The biomedical informatics field was defined as spanning the subfields of bioinformatics (molecular and cellular processes); imaging informatics (tissues and organ systems); clinical informatics (individuals and patients) and public health informatics (populations and society). The last two subfields, clinical informatics and public health informatics together comprise health informatics, and are at the heart of our envisioned program. Our proposed curriculum will focus on:

- Clinical tasks – in particular, medical decision-making pertaining to prevention, diagnosis, treatment and follow up and the required support from information systems – as well as patient-related issues;
- Healthcare organisation and processes - in particular, the use of information technology in structuring and organising patient-care processes (care-chain logistics).

The program will provide preliminaries; foundations (such as quality of care based on clinical registries; terminology systems; and Evaluation and Usability); and emerging technologies (such as Decision Support Systems; eHealth; and Big data analytics). The program objectives are to meet the growing demand for skills pertaining to solving information-related problems and to tackle the problem of lack of job readiness of (IT) graduates entering the healthcare sector. Bringing together the various institutions will facilitate arriving at the definition of the precise program goals and the learning outcomes.

Project Consortium

1. Applicant Organization: Alcala University, Spain

List of Partners (Multi-Country Project)

2. Al-Quds University, Palestine
3. Universiteit Van Amsterdam, Netherlands
4. University Of Jordan, Jordan
5. The Board Of Trustees Of The Bir Zeit University, Palestine
6. Stockholms Universitet, Sweden
7. Ain Shams University, Egypt
8. Jordan University Of Science And Technology, Jordan
9. Cairo University, Egypt
10. Dimensions Consulting, Palestine

Total Grant Requested: EUR 976,987.00

Special Mobility Strand Additional Grant: No

Duration: 36 months