University of Peloponnese

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Type of organisation:

SME ☐   School ☐   University ☒   Public Authority ☐
Training ☐   No Profit ☐   NGO ☐

Other (Specify)

Fields of action :

SMEs ☐   Youth ☐   Universities ☒   Public Authorities ☐
Equal opportunities ☐   Schools ☐   Unemployed ☐

Other (Specify)

Description of the organisation

The University of Peloponnese established in 2000 and accepted its first students in 2002. The University of Peloponnese central premises is located in Tripolis while schools and departments operate in other 6 cities (Tripolis, Corinth, Nafplion, Sparti, Kalamata & Patra) throughout Peloponnese and Western Greece Region.

Departments that host about 20.000 students are grouped under the Schools of:

(a) Agriculture and Food, based in Kalamata

b) Administration, based in Kalamata

c) Health Sciences, based in Tripoli.

d) Engineering, based in Patras

The Department of Electrical and Computer Engineering (ECE) belongs to the School of Engineering of the University of Peloponnese and is based in Patras.

The mission of ECE is to provide high-level education and research skills to students, in order to produce engineers with high-level knowledge and skills in the field of Electrical and Computer Engineering. In particular, the Department develops the science and technology of Energy and Electrical Systems, Signal Processing, Communications, Networks, Electronics, Computers, Automatic Systems and Informatics, in all their areas of application.

The curriculum offers a basic education of six (6) academic semesters, followed by four (4) academic semesters, in which students specialize in four Electrical and Computer Engineering directions of: (a) Energy Systems, (b) Signals, Telecommunications and Networks, (c) Electronics, Computers and Systems, and (d) Informatics.

In second cycle of studies, ECE offers a Postgraduate Program entitled "Smart Information and Communication Technologies and Services". The purpose of this program is to develop technologies, models and methods for efficiently managing and processing big data, exporting knowledge and assisting decision-making in critical areas. Focuses on Smart Cyber-Physical Systems and Services, Advanced Technologies for Education and Business Analytics and Data Science. Emphasis is also given on familiarization and implementation of entrepreneurship and open innovation.

In the third cycle of studies, ECE offers a Doctoral Program in areas falling within the research interests and scientific fields covered by the Department, either exclusively or broadly.

The educational and research facilities of the Department are housed in four (4) buildings, where the theoretical and laboratory education of the students, is carried out. The Department has modern laboratory infrastructures that are sufficient for the practical training of students. In addition to the educational infrastructures, students have access to central facilities, such as central library, conference center, sport facilities, student housing facilities, restaurant and cafeteria.

ECE is strongly involved in research and innovation and actively participates in national projects (funding from General Secretariat for Research and Technology and from the Hellenic Foundation for Research and Innovation, as also as from the private sector) and international projects (funding from Horizon 2020, Erasmus Plus, etc.). Undergraduate and postgraduate students are encouraged to participate in all relevant activities in a timely manner.

Today the research and development activities are hosted in the seven (7) recently established research laboratories of the Department:

1. "Network Technologies and Digital Transformation"

2. "Electronic Circuits, Systems and Applications"

3. "Design of Embedded Systems and Applications"

4. "Data and Media"

5. "Microelectronics and Communications"

6. "eBusiness & User Experience Design"

7. "Interdisciplinary Semantic Interconnection of Symbiotic Educational Environments"

ECE makes a special effort to warrantee the European/international scientific and/or professional perspective of the graduates, through the adoption of the ECTS, the participation in ERASMUS+ exchanges, the participation in academic and research exchanges through bilateral agreements with countries that excel in engineering studies. The Department encourages students, faculty and staff to take active part in ERASMUS+ exchanges, under both learning and training agreements.

ECE is staffed by thirty (30) members of Teaching Research Staff and six (6) members of Technical Laboratory Personnel, as permanent teaching and laboratory staff. It also employs seven (7) adjunct Professors, who hold a doctorate thesis. Finally, three (3) administrative staff support the administrative work.

Experience of the organization in previous European projects

EU Programme	Year	Project Identification or Contract Number	Applicant/Beneficiary Name
ERASMUS +	2019	2019-1-LT01-KA204-060716	MB "HOMO EMINENS"
ERASMUS +	2019	2019-1-UK01-KA203-062146	UNIVERSITY OF THE WEST OF SCOTLAND
ERASMUS +	2019	2019-1-EL01-KA202-062953	UNIVERSITY OF PELOPONNESE
ERASMUS +	2018	2018-1-EL01-KA202-047922	UNIVERSITY OF PELOPONNESE
ERASMUS +	2018	599915-EPP-1-2018-1-NL-EPPJMONETWORK	UNIVERSITY OF AMSTERDAM
ERASMUS +	2018	2018-1-BE02-KA203-046861	UNIVERSITEIT ANTWERPEN
ERASMUS +	2017	2017-1-FR01-KA204-037152	UNIVERSITY OF PELOPONNESE
ERASMUS +	2017	2017-1-IT02-KA201-036780	ISIS MACHIAVELLI
ERASMUS +	2017	2017-1-UK01-KA203-036601	UNIVERSITY OF WEST SCOTLAND
ERASMUS +	2017	573708-EPP-1-2016-1ES-EPPKA2-CBHE-JP	UNIVERSITAT DE BARCELONA

Experience and Expertise of the organization in the project's subject area

In respect to the described project activities, UoP can contribute to the following aspects of the project
- UoP has strong development skills. Based on our technical skills we have previous experience in developing applications for several occasions.
- UoP has been involved in the project "Digital Educational Platform, Interactive Books and Learning Object Repository" is a central task of the Ministry of Education for the period 2010-15 under the action axis for Digital Educational Content of the "Digital School". It concerns the design, development and operation of three central web Ministry of Education services for digital educational content of primary and secondary general education: This experience is quite valuable for the development of iMathE concept

UoP has already participated in previous projects in the same area. Learning Game project is funded by the European Commission in the framework of the Life Long Learning Programme - Comenius Multilateral Projects . The project, promoted and coordinated by Pixel, has the aim to implement e-learning solutions and methods in a teaching and learning context that make full use of the interactive and multimedia solutions, therefore including videogames.

Moreover UoP has been working in the field of digital education for more than five years. With several in house developed applications in digital education and participation in national activities

Contributions that can be provided to the project

In respect to the described project activities, UoP can contribute to the following aspects of the project
- UoP has strong development skills in different technologies. In its portfolio several application areas are included. In the area of distance learning UoP has participated in more than 20 national and international initiatives contributing with development skills and distance learning methodology

aspects in the operational use of MOOC in several educational areas.

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- UoP is working in the area of AI and ML in several aspects of its application sectors. From its previous experince UoP has developed AI algorithms for precision agriculture and recently it is funded by European Institute of Innovation and Technology in order to use AI algorithms in matching digital skill in aquaculture.

UoP has a strong background in the research area of Mining Information in complex Educational Systerms where gruaduated students are working for their PhDs.

Reasons of involvement in the project

The subject of iMathE presents an interesting project in the area of our expertis. Our involvement will improve our knowledge skills and technical skills within the area of the project.

Contact Person's Experience and Expertise

Spiros Sirmakessis has previous experience in developing new strategies in education and Higher Education Institutes. He was the scientific responsible and the project manager of a national funded project entitltled "Open Courses in TEI of Messolongi". In this project new methods for teaching several university curricula have been studied and different approaches have been selected in order to efficient teach different courses in the organization