Courses & research topics offered to the incoming Erasmus+ students during the Academic Year 2018-19

A. Postgraduate courses

A.1 Autumn Semester:

Postgraduate courses are not offered to the incoming Erasmus+ students during the Autumn Semester of the Academic Year 2018-19.

A.2 Spring Semester:


3) Special Topics in Electronic Energy Management Systems - ENE 602 (Assoc. Prof. E. Koutroulis) / 7 ECTS units: Design of DC-DC and DC-AC power converters. Battery structures for electric energy storage. Electronic systems for
maximizing power production (Maximum Power Point Tracking – MPPT). Smart meters. Special sensors, actuators and controllers for energy management and energy saving in Smart Homes/Buildings. Electronic energy management systems for Renewable Energy Sources, Smart Grids, Microgrids and electric vehicles. Electronic systems for wireless power transmission and energy harvesting.


B. *Supervision of diploma thesis (for undergraduate students) and MSc/PhD thesis (for postgraduate students) during the Autumn and Spring Semesters, in the following fields:*

1) **Computer Architecture, data-center processing, parallel programming, FPGA Design.** *(Prof. D. Pnevmatikatos)*

2) **Multiagent Systems (including Multiagent Learning), (Algorithmic) Game Theory, Computational Social Choice, Smart Grid.** *(Assoc. Prof. G. Chalkiadakis)*


4) **Quantum Information Algorithms.** *(Prof. D. Ellinas)*
5) Implementation of Quantum Computation with cavity QED or Superconducting Circuits or Integrated Photonic Chips, Different projects in implementation of Quantum Simulations and Quantum Computing in Quantum Technologies. (Assoc. Prof. D. Angelakis)


7) Electrophysiological signal analysis, Biomedical image processing, Biomolecular Imaging, Genomic data analysis and interactions, Image processing for surveillance applications. (Prof. M. Zervakis)