



3RD CONSORTIUM MEETING IN PORTO, PORTUGAL ON 17-19 JUNE 2019

The 3rd consortium meeting was held in Porto, Portugal on 17-19 June 2019 and was organized by Porto Polytechnic.



The meeting was opened by the President of Porto Polytechnic, Prof. Joao Roha and Prof. Isabel Praca of the School of the Engineering of Porto Polytechnic.

The partners worked on the institutional strategies for introducing active and problem based learning into higher education.

PBL LABORATORIES IN USE



Co-funded by the
Erasmus+ Programme
of the European Union

The first lab of the Erasmus+ Capacity Building project ALIEN on promoting active learning in engineering higher education has been setup at the **Institute of Technology Cambodia**.

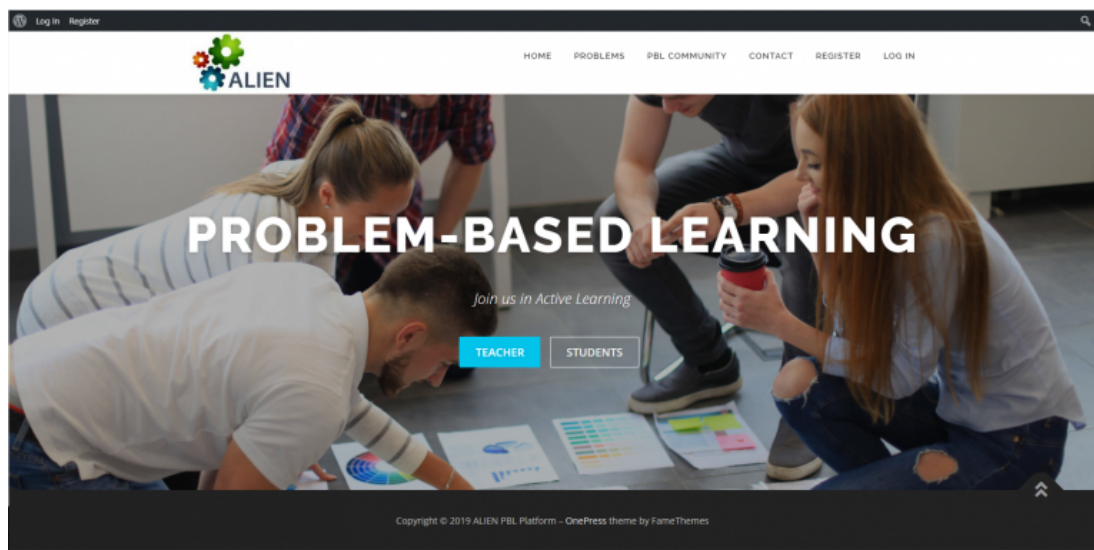


The Active Learning and Problem Based Learning lab at the **University of Malaya** has been setup and was already used in the spring of 2019 in courses by groups of students that collaboratively designed and implemented Arduino and Raspberry Pi projects.



The on-line PBL collaborative platform that supports the production, storage, sharing, and reuse of problems and challenges to be used in Problem-based Learning is ready for use.

The partners worked on the ALIEN digital platform for active and problem based learning as well as made plans for instructor training and the formation of special interest groups towards promoting the adoption of project outcomes at their institutions and beyond.



The proposed PBL methodology will be deployed in a number of engineering courses, demonstrating its broad applicability. Courses include:

- Fundamentals of software engineering
- Multimedia design
- Computer networks
- Hydraulic and pneumatic drives
- Automatic control systems
- Energy efficiency
- Renewable energy sources
- Software engineering
- Soil mechanics
- Technology in education
- Game design
- And more ...

These courses are part of formal engineering curricula in programs that include:

- Electrical Engineering
- Computer Engineering
- Information Systems
- Computer Science
- and others.