

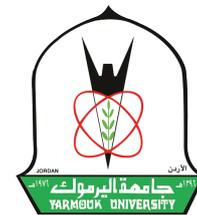


RL4Eng

Development of Remote and Virtual
Laboratories for Teaching and Training
Engineering Students in the South
Mediterranean and Sub-Saharan Higher
Education Institutions



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Erasmus+ Programme
of the European Union



**Development of Remote and Virtual
Laboratories for Teaching and Training Engineering
Students in the South Mediterranean and Sub-Saharan
Higher Education Institutions (RL4Eng)**

Description:

The economic crisis and pandemic in South Mediterranean and sub-Saharan countries have put the HEIs in a challenge to accommodate for the new requirements of online teaching. The RL4Eng project aims to improve the quality of higher education in third countries and make it more relevant into the today's digital transformation world through establishing Remote and Virtual Laboratories for Teaching and Training Engineering Students to modernize the current teaching approaches and improve the digital and entrepreneurial capacities of both students and teachers in South Mediterranean and Sub-Saharan HEIs. The project's contribution to the priorities of the call includes the digital transformation under which digital education is the focus of the project. Online teaching for laboratories has been implemented in EU countries with successful outcomes. The involvement of different European Universities will help integrate good practices and minimise potential risks in implementing the RL4Eng project. South Mediterranean HEIs have identified the necessity of training with numerous initiatives available in the European system. Few Research is available on the effective delivery of remote labs and take-home labs. The project involves several work packages in efforts made to elevate the knowledge of remote labs and take-home labs in the partners' institutions via capacity building for students, staff and faculty and share of experiences. A remote lab will be established in each country of the partners' institutions and a take-home lab will be established in each HEI of the partner countries. The very nature of remote labs, and take-home labs makes them sustainable and easily scalable as they becomes part of the university structure and receives part of its budget. Moreover, the nature of the remote labs makes them sustainable as they are accessible from everywhere and could be used for both teaching and for research.

Objectives:

The General objectives of the project will be:

- To support cooperation between higher education institutions in the south Mediterranean and sub-Saharan region (Jordan, Lebanon, Morocco and Tanzania) and Europe in the field of engineering education.
- To support responsiveness of higher education in third countries not associated to the Erasmus+ programme, particularly the south Mediterranean sub-Saharan region (Jordan, Lebanon, Morocco and Tanzania), to react to recent trends in education that emerged due to the COVID-19 pandemic.
- To introduce new approaches and initiatives in higher education, based on peer learning and transfer of experience and good practice affecting not only the institutions but also the society at large.
- To enhance higher education's relevance for the labour market and the society, by designing innovative curricula and introducing innovative elements in the existing curricula.

Deliverables:

- Establishment of international groups, training workshops, establishment of Remote labs, take-home labs.
- Students mobility, involvement in workshops, performing experiments on remote labs, take-home labs.
- New and updated practical courses that suit the local context and reflect the latest developments in science.
- Curriculum development.

Partners



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