

ACTEA - Applied Curricula in Technology for East Africa



PROJECT TYPE

Erasmus+ KA2 Capacity Building in the Field of Higher Education

PROJECT NUMBER

597931-EPP-1-2018-1-BE-EPPKA2-CBHE-JP

PERIOD

November 2018 – November 2022

Problem Statement

STEM education is very relevant for East-African countries, as producing added value is a way of improving life standards in these developing countries. Moreover, there is a high demand for technicians from investors, NGOs, and the emerging mid-class in Ethiopia, Uganda, and Tanzania, supported by legislative attempts to increase local employment. To cope with this demand, there is a need for skilled people, trained in relevant engineering trades, but they are hard to find, due to the strong theoretical approach in universities instead of practice-oriented competence-based teaching. This is directly related to the lack of modern curricula in engineering and industry-grade equipment.

The goal of the project

The ACTEA project aims to fulfill the specific needs in engineering, provide better skills matching, deliver course material in 2 specializations, Computer Aided Manufacturing Technology and Electrical Engineering & automation, establish technological laboratories, with virtual and remote accessibility, establish learning tools, to give academic staff additional training on technology and in developing technologic course material according to EU standards.

Methodology

To ensure good skill matching, the project includes research on both labour market demands and competencies included in current

curricula. For example, work package 1 includes the development, distribution, and analysis of surveys for stakeholders (teachers/students / local labour market/output competencies from secondary education). During the project, pre- and post-measurements of all training activities are performed as well.

Output

The results will be disseminated and exploited with train-the-trainer sessions, Master Classes, and with the training of a pilot group of internal and external stakeholders. Good practices and results will be made public through e-resources, radio, and local media. The Business Integration Bureau favors cooperation with local businesses for training, employing students, or as clients for end products. All is done according to a well-defined quality assurance scheme.

Impact

The impact in the short term is increasing technological and pedagogic knowledge, increased operational capacity, an increase in engineering students, and better cooperation with local industry. In the long term, the project aims at an increase in employability, in added value produced locally, and sustained life-long learning and long-term high-quality knowledge gain in technology.

Links

ACTEA Website: www.actea.net

ACTEA Moodle: