

Africa-Europe Conference on Higher Education Collaboration, 25 October 2019, Brussels „Investing in people, by investing in higher education and skills in Africa“



Applied Curricula in Technology for East Africa

AP – HOWEST – FHDö – HMU – MeU – JU – MUST - MuU – MzU – ARU – RENU - TERNET

Project Presentation

Goal of the project

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

Project type:

Erasmus+ KA2 Capacity Building HEI

Period:

November 2018 – November 2021

Budget:

€998.345

Methodology

Good skills matching is ensured by research on both labour market demands and competences included in current curricula, to ensure involvement of all stakeholders. Training is provided for the teaching staff and students, both on the theory and on problem-based practical assignments.

Output

The results will be disseminated and exploited with train-the-trainer sessions, Master Classes and training of a pilot group of internal and external stakeholders. Results will be made public through e-resources, radio and local media. The Business Integration Bureau favors cooperation with local business, for trainings, employing students or as client for end-products.

Impact

The impact on the short term is increased technological and pedagogic knowledge, increased operational capacity, increase in engineering students, and a better cooperation with local industry. On the long term, the project aims at an increase in employability, in high quality local production, sustained life-long-learning and long-term high-quality knowledge gain in technology.



Project Activities

- WP1: Analysis of current curricula, competences and laboratories in Technology in TC
- WP2: Analysis of capacity of partner universities in Technology in TC
- WP3: Curricula modification and courses development
- WP4: Implementing a (virtual) learning environment in Technology. Establishing remote and virtual tech labs.
- WP5: Retrain academic teachers on technology engineering and virtual and remote learning platforms
- WP6: Pilot teaching/operation
- WP7: Quality Assurance and Quality Control
- WP8: Dissemination and Enterprise Collaboration
- WP9: Management of the project

Expected Project Results

Module 1: Computer Aided Manufacturing Technology

- Product & Process Design and Development
- Computer Aided Design
- Materials, Manufacturing Process Applications and Operation
- Materials Technology – materials testing and analysis
- Machining
- Welding Technology

Module 2: Electrical Engineering & Automation

- Electrical Installations
- Electrical Motors & Drives
- Basic PLC Programming
- Advanced PLC & Motion
- Sensor Technology
- Process Simulation & Control
- Renewable Energy
- Embedded Measurement and Control

Module 3: Labor Market Skills

- Project Management & Strategy
- Economics
- Soft Skills for Engineers
- Quality Control

Equipment

- Hands-on Technology Labs
- Virtual & Remote Technology Labs

Training

- Training in the EU
- Train the trainer sessions in East Africa
- Pilot teaching to students and external stakeholders
- Master Classes in East Africa

Sustainability & Synergies

ACTEA is very open to cooperation with different stakeholders in the field of technology & engineering.

- Tigray National Regional State Bureau Science and Technology
- Tigray Region Small & Medium Manufacturing Industry Development Agency
- Embassy of the Kingdom of Belgium in Addis Ababa
- Fundibots
- Mountains of the Moon University
- EKISANDE RURAL DEVELOPMENT CENTRE UGANDA
- Ministry of ICT Uganda
- Small Industries Development Organization
- Tanzania Commission for Science and Technology (COSTECH)
- The United Republic of Tanzania President Office - Regional Administration and Local Government
- Tanzania Industrial Research and Development Organization
- Vocational Education and Training Authority (VETA) Tanzania Engineering and Manufacturing Design Organisation (TEMDO)
- Embassy of the Kingdom of Belgium in Dar es Salaam
- Embassy of the Kingdom of Belgium in Kampala

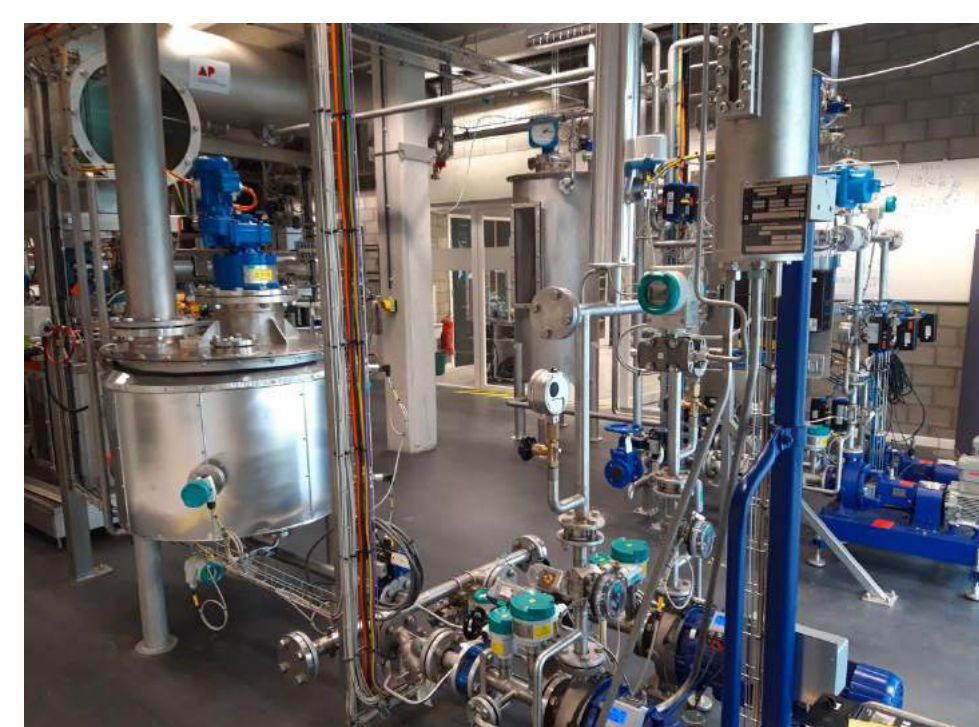
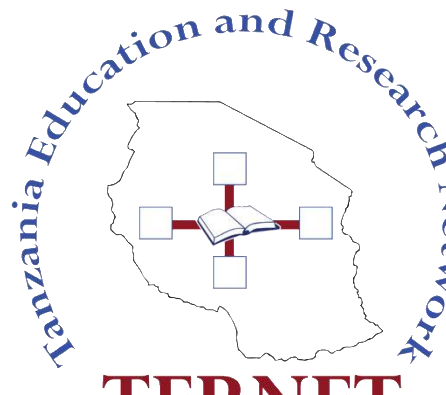
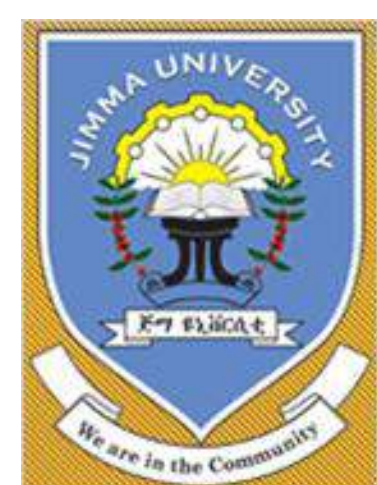
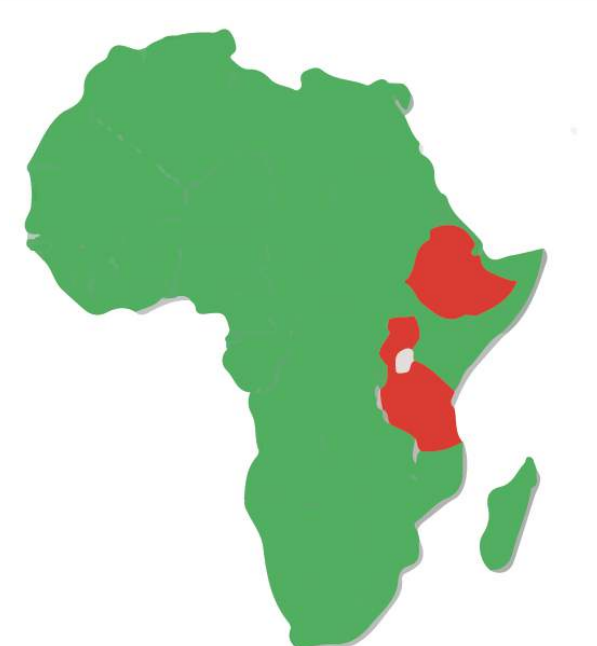
Information

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IMPLEMENTING PARTNERS

AP University College (BE) - Howest (BE) - Fachhochschule Dortmund (GE) - Hellenic Mediterranean University (GR)
Mekelle University - Jimma University (ET)
Mbarara University of Science and Technology - Muni University (UG)
Mzumbe University - Ardhi University (TZ)
Research and Education Network for Uganda (UG) - Tanzania Education and Research Network (TZ)

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