



A Regional Innovation Hub Offering
Skills for Digital Transformation
in East Africa

Strengthening the Competitive Edge of Industry Through Digitalisation

In an increasingly competitive global market, being able to provide cutting edge services to clients in a constant and fast changing tech environment is a prerequisite for businesses to be successful. CENIT@EA is providing businesses with the skills for their individual digital solutions, catering to their needs and strengthening their competitiveness in an international market. CENIT@EA supports the development of the private sector and fosters digitalisation in East Africa.

CENIT@EA offers your business skills to harness the benefits of digitalisation

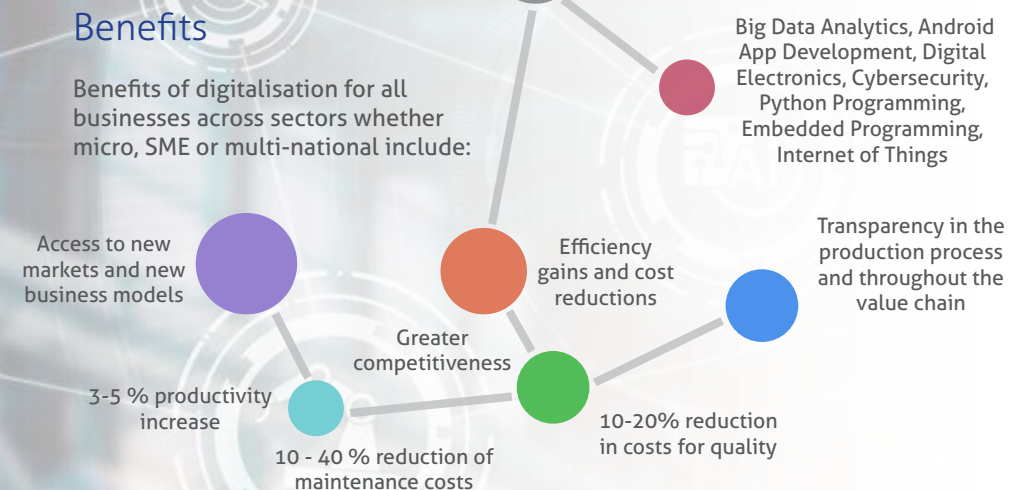


"Companies are always looking for a competitive edge, as well as being able to service their clients in an ever-changing tech environment. Being able to provide cutting edge solutions and products puts them at an advantage. So hiring people who are at the forefront of ICT developments, who can develop solutions, is what every business wants to do."

Wahome Gathondu
IBM (CENIT@EA partner)

Benefits

Benefits of digitalisation for all businesses across sectors whether micro, SME or multi-national include:



Master of Science in Embedded and Mobile Systems

Students at CENIT@EA come from all over East Africa and excel through their academic record, ambition, innovative- and solution-oriented thinking as well as experience. For such students CENIT@EA provides the right nurturing and accelerating environment, preparing them to become digital pioneers and drive the digital transformation to the benefit of industry, the public sector and academia in East Africa.

The applied master program in Embedded and Mobile Systems (MSc EMoS), taught at CENIT@EA, was developed by a German and East African academic consortium and is the first of its kind in East Africa. Hosted at the Nelson Mandela African Institution of Science and Technology in Arusha, Tanzania, CENIT@EA provides students with:

Scholarships

Laboratories
for practical
teaching and
research

Exchange with researchers and
universities all over East Africa
and Germany

A regional network of companies
for job and internship
opportunities

Entrepreneur-
ship skills

Summer
Schools

Participation and project
exhibitions at regional
conferences and events

Excellence
oriented
teaching

Guest lecturers from German and
East African universities

CENIT@EA particularly welcomes female students and researchers to join the programme and engage in the development of new technologies.

Stories from CENIT@EA



For women wanting to enter what is still seen as a male dominated sector, Happyness has one thing to say - "Follow your passion – if ICT or embedded systems are a passion, you must follow it."

(Happyness Alexander, CENIT@EA student from Tanzania)



"My undergraduate degree program was developing an electronic switching system, and then I discovered Raspberry Pi, the credit card sized computer, and it was so interesting to me that even my lecturers didn't know how it was working."

(Josephine Mbandi, CENIT@EA student from Kenya)



Growing up seeing his father struggle with heart issues, Deo hopes to extend his skills into the medical industry, in particular developing devices which help both patients and doctors.

(Deo Irankunda, CENIT@EA student from Burundi)



Before even starting the study program Shakila had already been working on a robotic plastic sorting system which uses artificial intelligence (AI), finding local support and industry mentors.

(Shakila Mbaraka Mshana, CENIT@EA student from Tanzania)



"Our economy and livelihoods are heavily based on agriculture. ICT can help in this sector by creating platforms that can help farmers with, for example seed exchange, building markets and smarter irrigation technology."

(Fabien Ngaboyimbere, CENIT@EA student from Rwanda)



Background

Both the East African Community's Vision 2050 and the development strategies of East African Community (EAC) Member States make specific reference to the cross-sectoral significance of ICT for socio-economic development in the EAC. CENIT@EA was initiated by the German Federal Ministry for Economic Cooperation and Development (BMZ) and the East African Community and launched in 2019 to support East African universities to provide the technical skills that meet the needs of the private sector, public sector and civil society stakeholders in the region's digital transformation.

The Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) implements the project on behalf of BMZ in cooperation with the Inter-University Council of East Africa (IUCEA), the German Academic Exchange Service (DAAD) and an academic consortium including the host university of CENIT@EA, the Nelson Mandela African Institution of Science and Technology (NM-AIST) and the University of Oldenburg, the University of Dar es Salaam, the University of Technology and Arts in Byumba, the University of Applied Sciences Mannheim and University of Applied Sciences HTW Berlin, and the German Aerospace Center (DLR).

To assure a needs and value driven approach of the Master's Program in "Embedded and Mobile Systems", its trainings and other activities, CENIT@EA works very closely with the private sector. With events such as ICT4Business CENIT@EA strengthens its regional network and facilitates the dialogue between academia and the private sector for collaborative development and digital transformation.



giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

DAAD

Deutscher Akademischer Austauschdienst
German Academic Exchange Service



hochschule mannheim



Hochschule für Technik
und Wirtschaft Berlin
University of Applied Sciences



Deutsches Zentrum
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