Dedan Kimathi University of Technology

DEDAN KIMATHI UNIVERSITY OF TECHNOLOGY

University Profile

2021

University Profile



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Table of Contents

Members of DeKUT Council....1
Members of the University Management Board....2
Governance....3
A Message from the Council Chairperson....3
A Message from the Vice Chancellor....4
University History....5
Human Resource Development....6
Dedan Kimathi Science and Technology Park (DeST-Park)....8
DeKUT Film, Animation & Gaming Hub....10
Dedan Kimathi Innovation and Incubation Hub (DeHUB)....12
University Farm....14
Dedan Kimathi University Wildlife Conservancy....15
Centre For Biomass Energy Studies....17
Centre For Development Of Electronic Devices....19
Centre For Excellence In Competence Based Education Training (CCBET)....20
Siemens Centre....21
Centre For Innovation And Entrepreneurship Management (CIEM)....22
Centre For Industrial Productivity And Engineering (CIPE)....23
Centre for Coffee Technology & Food Safety....25
Startup Centre....27
Making A Difference In Our Students' Lives Through Newly Created Departments....28
Dedan Kimathi University of Technology Office of Career Services (DeKUTOCS)....28
DeKUT Financial Aid Office (DeFAO)....30
Pictorials....32
Academic Programs....34

VISION

To be a Premier Technological University Excelling in Quality Education, Research and Technology Transfer for National Development.

MISSION

To provide an academically stimulating, culturally diverse and quality learning environment that fosters research, innovation and technology development towards producing relevant technical and managerial human resource and leaders to contribute to the attainment of national development goals.

PHILOSOPHY

Dedan Kimathi University of Technology is founded on the belief that self-actualization and solutions to global challenges are attainable through a spirit of dedication, self–confidence, determination, and best utilization of resources. The institution also believes in being globally competitive through the employment of global competencies. To actualize its beliefs and goals, the University is committed to investing in her staff, facilities and systems to ensure an internationally excellent environment for education and further her aims and objectives. The ultimate goal of this philosophy is to mould Dedan Kimathi University of Technology into an institution known for world-class research, academic excellence, exceptional staff and students, and one that harbors the highest level of innovation, creativity, scholarship and enterprises.

CORE VALUES

i .Innovation
ii .Scholarship
iii .Integrity
iv .Diversity
v .Teamwork

MEMBERS OF DeKUT COUNCIL



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GOVERNANCE

A MESSAGE FROM THE COUNCIL CHAIRPERSON, DR. JANE NYAKANG'O



Dedan Kimathi University of Technology has blossomed into the Premier University of Technology in the country and in the region and this has attracted students from across the continent. In 2019, the University was ranked as the most preferred University in the country, with a 98 percent uptake of its declared capacity being occupied, and in 2020, this rose to 98.8%.

The University infrastructure has also grown, and the student population has grown tremendously. In the last four years that I have been in office, the student population at the University has grown from six thousand seven hundred and seventy-one (6771) to nine thousand two hundred and thirty-six (9,236).

The University remains committed to providing an academically stimulating, culturally diverse, and quality learning environment that fosters research, innovation, and technology development towards producing relevant technical and managerial human resource and leaders to contribute to the attainment of national development goals.

In line with this, we are spearheading the establishment of a Science and Technology Park. The Science and Technology Park will catalyze the development of new companies, attract international partners, and create high-quality jobs for young people. As it grows, it will provide employment opportunities, especially to our graduates. To facilitate the success of the Dedan Kimathi Science and Technology Park (DeST-Park), the University's council has approved the establishment of centers and accompanying policies geared at enabling the development of a research and innovation eco-system of the University. The Science and Technology Park will create high-tech clusters to serve as catalysts to technology development, economic transformation, and wealth creation with a link to university knowledge generation.

The University Council has approved the Council has also approved the establishment of nineteen (19) specialized research and innovation centers most of which are already operational and a few are in the formative stages. We have also set up framework under which private companies and businesses can be established at the DeST-Park. As a start, the University partnered with the Semiconductor Technologies Limited whose operations at the University began whose operations at the University began in 2020 and was commissioned by the President in April of this year 2021. We have also set up a framework under which the University has also ensured staff welfare and development. A high number of the academic staff members have acquired their PhDs or are in the process of acquiring them. We are aiming at getting to the next level and growing this number by 90% in the next few years.

I take this opportunity to thank the government for its support through the Ministry of Education, State Department for University Education and Research. The University, being a government-funded public university, has benefited from this support. It has grown in the last few years and continues to focus on its core business as a University of Technology.

A MESSAGE FROM THE VICE CHANCELLOR, PROF., ENG. NDIRANGU KIONI

Welcome to the 2021 Special Profile Edition. The purpose of this edition is to highlight some of the University's special initiatives as well as some of the significant milestones it has achieved since its inception.

The University is evolving its uniqueness through education, research, and technology transfer to meet the technological needs of the Kenya Vision 2030. To successfully achieve this, we have established a Science and Technology Park to encourage cooperation and synergy between universities, research institutions, government, and the private sector to create a favorable environment for innovation, renovation, and training. Dedan Kimathi University Science and Technology Park (DeST-Park) covers three thematic areas, which are: Agri-tech (Food bio-resources and natural products value-addition), Information and Communication Technology (ICT), and Design, Materials and Manufacturing (DMM). So far, DeST-Park has attracted anchor clients; Snowcap Development Limited, Asytec, and Semiconductor Technologies Limited.

In April this year, the President of the Republic of Kenya, H. E. Uhuru Muigai Kenyatta, presided over the launch of Semiconductor Technologies Limited. The company, which is the only one of its kind in Africa, manufactures nanotechnology products such as integrated circuits and sensors used in electronic gadgets for the global market. Its products have a high demand and are used in electronic gadgets such as mobile phones, televisions, and laptop computers. The establishment of Semiconductor Technologies Limited (STL) will provide the Science and Technology Park and the University with crucial local and international linkages contributing to intellectual property outputs.

We have also experienced a lot of growth in various ways. New strategic alliances and collaborations with various like-minded organizations have been formed to empower our students with superior skills and the requisite mindset needed to deal with the challenges they face. To start with; last year, we partnered with the Kenya Film Commission (KFC) to start a digital media center that aims at curbing some of the challenges our youths are facing today, such as unemployment, through the use of technology. The partnership provides a platform where young people and interested parties in creative art can use technology in film making and participate in the production of digital media products



that can be marketed widely. The University has also signed various MOUs agreements with several organizations/institutions. To list but a few we have an MOU with the center for International Migration, the Africa Bio-Energy Programme Limited (AFBL), and Biogas Kenya with who we have partnered to set up a center of excellence in biomass energy under the Center for Biomass Energy Studies (CBES). The University and the Deutsche Gesellschaft fuer Internationale Zusammenarbeit (GIZ) recently signed a grant agreement for the Green Climate Fund (GCF) project which is being implemented by the DeKUT Centre for Biomass Energy Studies To further support our students, we have also established departments such as the office of career services which is geared towards helping students explore and develop their careers through Industry linkages and mentorship programs. The office will also support alumni by continuously engaging them and helping them secure employment where possible. The University has also established the Awhich also has a robust work-study program that allows students to work while studying within the University to earn an income and learn from various departments and offices.

This being the 9th year since the University was awarded its charter, I take this opportunity to thank all stakeholders both internal and external who have made this vision a reality.

University History

Dedan Kimathi University of Technology has blossomed into the Premier University of Technology in the country and in the region attracting students from across the continent and beyond. Since her inception, the University has grown in many ways including in terms of infrastructure and the student population; which has grown tremendously. In 2019, the University was ranked as the most preferred University in the country, with a 98 per cent uptake of its declared capacity being occupied and in 2020, this rose to 98.8%.

Among many reasons for this, like quality education, the serene environment and the focus on holistic development of our students, the timely completion of studies by our students. Currently, the University has six schools, seven institutes and 19 centres.

The University offers a wide range of programmes both at the undergraduate and postgraduate levels. These include Computer Science and Information Technology, Engineering, Applied Sciences, Food Science and Technology, Health Science, Business Management and Economics, Geothermal Energy Technology, Geomatics, Geospatial Information Systems, and Remote Sensing, Tourism and Hospitality, Technical and Professional Studies.

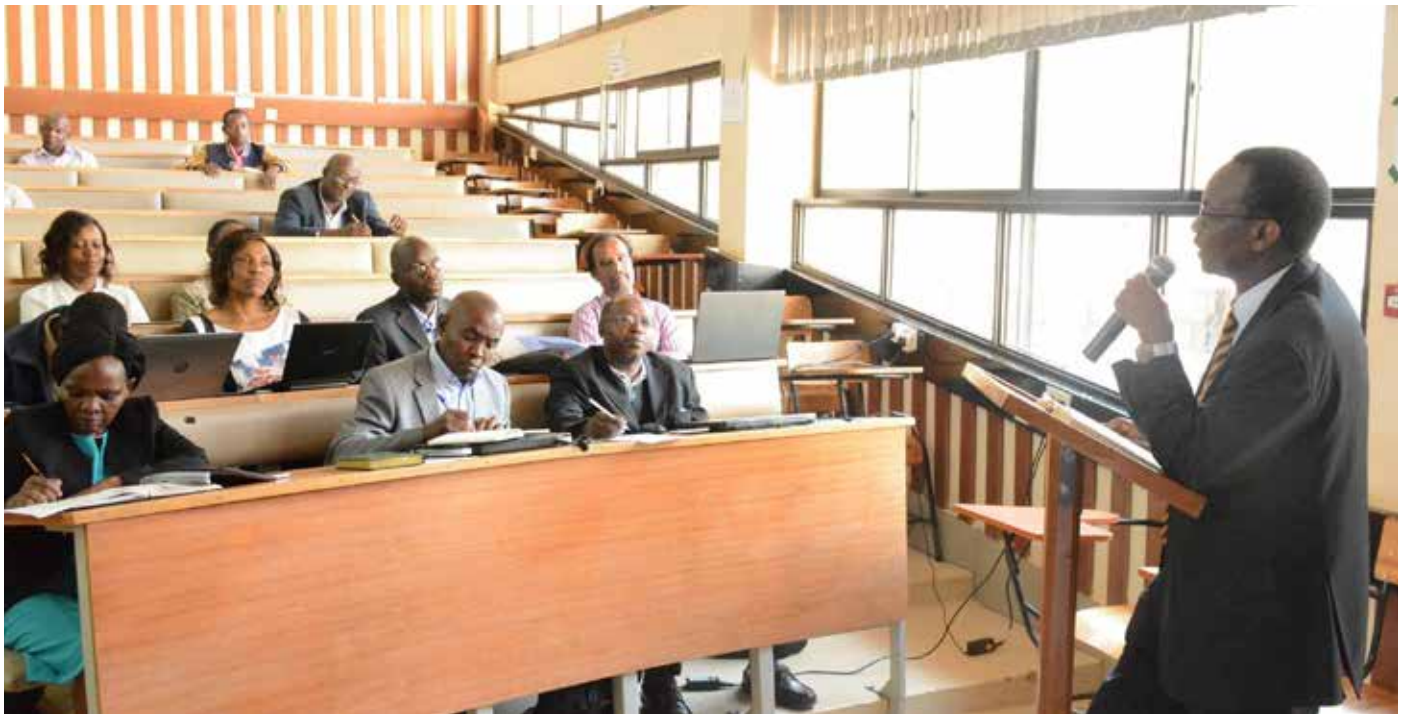
The University also offers diploma and Certificate courses for mid-level technical skills. The programs offered by the University are appro ved by the Senate and the various designated bodies like the Engineers Board of Kenya (EBK) and the Commission for University Education (CUE) with B. Sc. in Chemical Engineering, B. Sc. in Geology, M. Sc. in Telecommunication Engineering, M. Sc. in Biomedical Engineering, M. Sc. in Machine Tools Design and Manufacturing, M. Sc. in Civil Engineering, Bachelor of Technology in Building Construction, M. Sc. in Chemistry and M. Sc. in Forensics and Security Management being the latest programmes to meet the CUE accreditation threshold. The University is steadily increasing her postgraduate enrollment in Master of Science (M. Sc.) and Doctor of Philosophy (PhD) programmes to continuously increase innovation and intellectual property output. The University has also introduced a Postgraduate Diploma in Technical and Vocational Education (PGTVE) Training. The programme aims at providing prospective trainers with pedagogical skills and strategies for Competency-Based Education and Training (CBET) programmes in TVET institutions. Among others, the programme will equip the student trainers with the knowledge, skills and attitude required to train in TVET institutions.

The DeKUT Science and Technology Park is still an ongoing project and will be an engine for innovation, incubation, development and commercialization of technology. This will, in turn, stimulate the development of entrepreneurship, which will drive job creation in Nyeri county, neighboring counties and the country at large hence developing self-reliant youths. The park will also boost the existing students' innovations at the Dedan Kimathi Innovation and Incubation Hub (DeHUB).

DeKUT provides her students with the skills and competencies they require to adapt to the dynamic realities of the modern labour market not only as workers/ employees but most importantly, as innovators, creatives and job creators. A lot of our alumni are making waves in the industries, with a majority of them having secure jobs and those with an interest in entrepreneurship have created lucrative ventures. On this auspicious occasion of the 11th Graduation Ceremony, the University will be releasing more graduates to join the rest of the alumni in contributing to the development of our nation, Kenya, and beyond.



HUMAN RESOURCE DEVELOPMENT



Staff during a pedagogy training

As part of Human Resource Management, we have Human Resource Development (HRD), which includes training an individual after they are first hired, providing opportunities to learn new skills, distributing resources that are beneficial for the employee's tasks, and any other developmental activities. This set of processes within the HR department are critical to employee on boarding and retention.

Human resource development is the integrated use of training, organization, and career development efforts to improve individual, group, and organizational effectiveness. HRD develops the key competencies that enable individuals in organizations to perform current and future jobs through planned learning activities. Groups within organizations use HRD to initiate and manage change. HRD also ensures a match between individual and organizational needs.

Dedan Kimathi University of Technology (DeKUT) continuously positions herself as an exemplary employer across all cadres of staff by providing training and capacity building programmes. Once the University attracts qualified staff, the Human Resource Department is tasked with offering regular training and workshops. DeKUT mainly uses two methods to train and develop her staff:

i. On the Job Training;
ii. Off the Job Training;

On the job training is a form of training during which employees are familiarized with the working environment. At this level, employees get hands-on experience using machinery, equipment, tools, materials etc.

On the job training methods used in training and developing staff include but are not limited to the following:



Pedagogy (Effective teaching skills workshop) group photo





Staff members participating in co-curricular activities



Staff during a pedagogy training

Team Building Activities.
Staff get to participate in various team-building activities at the DeKUT Challenge Course held by Mr. Mwai. This enhances several skills such as better communication among staff. Team building exercises encourage staff members to communicate effectively with each other to complete tasks and solve problems; which leads to increased productivity.

Performance Appraisal
Performance appraisals are partly evaluation and partly developmental. In the 360-degree performance appraisal, feedback is gathered from supervisors, peers, other colleagues and sometimes from clients. The appraisal results are used to identify areas for further employee development. Courses, Seminars and Workshops

DeKUT offers formal training opportunities to her employees either internally or externally. Trainers, facilitators and/or subject matter experts are brought on board for training sessions and the employees are engaged in these learning sessions during working hours.

Job Aids
These tools include manuals and procedure guidelines offered to the staff and domiciled in each department. They assist the employees in the performance of their duties.

In Off-the-Job Training, members of staff are admitted to Universities at home and abroad, where they take up courses relevant to their professions. The courses are paid for by the University, and for those who obtain scholarships, study leave is granted.



SPECIAL INITIATIVES AT THE UNIVERSITY

DEDAN KIMATHI UNIVERSITY SCIENCE AND TECHNOLOGY PARK (DeST-PARK)



Dedan Kimathi University of Technology (DeKUT) aims to enter into the league of Entrepreneurial Universities, which leverages on research and innovation to create intellectual property (IP) rights, spin-off companies and entrepreneurship to promote sustainable economic growth of the University and the Nation. In line with this, we are spearheading the establishment of a Science and Technology Park (STP), which will be an engine for innovation, incubation, development, and commercialization of technology. This will stimulate the growth of entrepreneurship, which will drive job creation in the country and develop self-reliant youths.

DeST-Park covers three thematic areas, which are: Agri-tech (Food bio-resources and natural products value-addition), Information and Communication Technology (ICT) and Design, Materials and Manufacturing (DMM). So far, DeST-Park has attracted anchor clients; Snowcap Development Limited, Asytec and Semiconductor Technologies Limited.

In April this year, the President of the Republic of Kenya, H. E. Uhuru Muigai Kenyatta, presided over the launch of Semiconductor Technologies Limited. The factory, which is the only one of its kind in Africa, manufactures nanotechnology products such as integrated circuits and sensors used in electronic gadgets for the global market. Its products have a high demand and are used in electronic gadgets such as mobile phones, televisions and laptop computers. The establishment of Semiconductor Technologies Limited (STL) in the University is a major milestone in the development of Dedan Kimathi Science &Technology Park (DeST-Park). STL will provide the Science and Technology Park and the University with crucial local and international linkages contributing to intellectual property outputs.



President Uhuru Kenyatta during the launch of the Semiconductor Technologies Limited







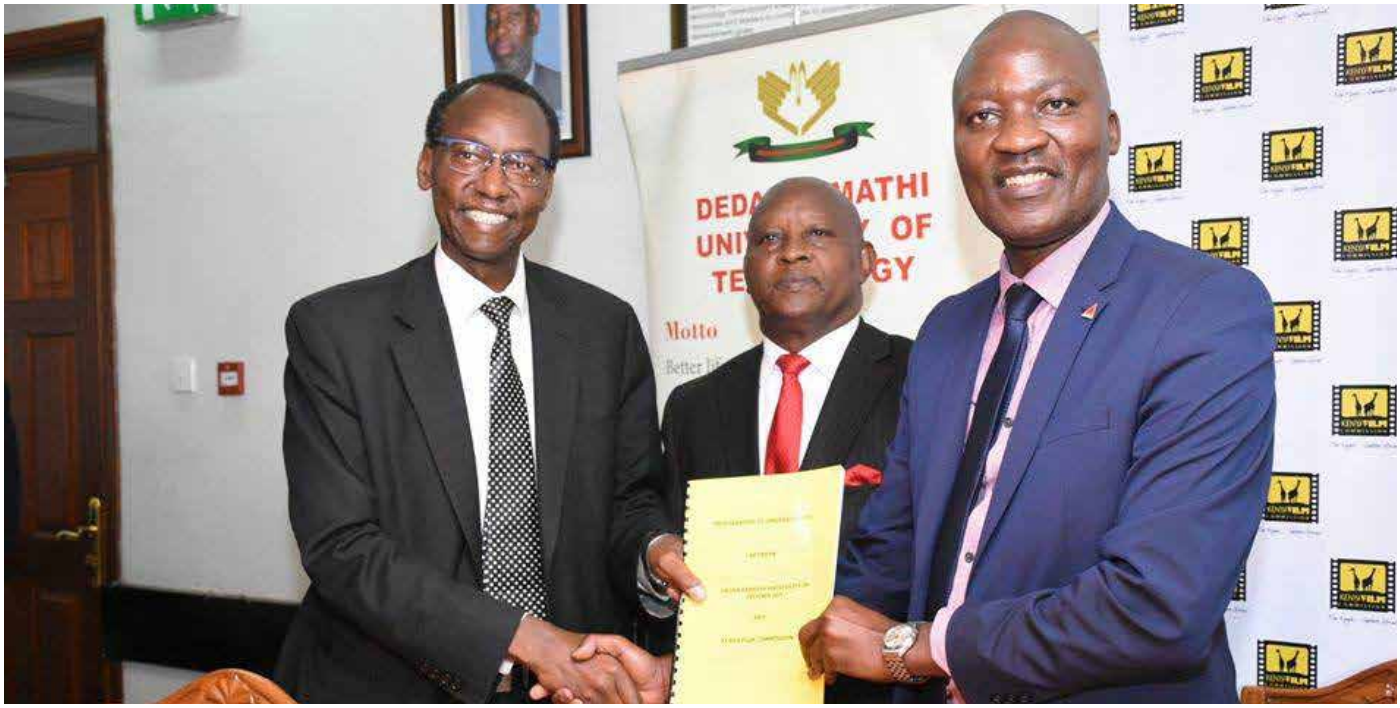


Design, Material and Manufacturing Hub Groundbreaking Ceremony at the Dedan Kimathi Science and Technology Park Grounds.



Principal Secretary, State Department for University Education and Research, Amb. Simon Nabukwesi during the Groundbreaking Ceremony of Design, Material, and Manufacturing Hub at the Dedan Kimathi Science and Technology Park Grounds.

DeKUT FILM, ANIMATION & GAMING HUB



Signing of a Memorandum of Understanding between the Kenya Film Commission and Dedan Kimathi University of Technology

DeKUT Film, Animation and Gaming Hub, which is part of the Science and Technology Park, is anchored on Kenya's Vision 2030 dream to transform Kenya into a newly industrialized, middle-income country. The hub was officially opened by The cabinet Secretary, Ministry of ICT, Innovation and Youth Affairs, Hon. Joe Mucheru, E.G.H, on 21st May 2020 following the signing of a Memorandum of Understanding between the University and the Kenya Film Commission.

The partnership aims at providing a platform where young people and interested parties in creative art can use technology in film making and participate in the production of digital media products that can be marketed widely. It is an industry that provides employment to a lot of young people and where one can achieve a lot with very little investment.

The hub is open to students, staff, and members of the public who are animators or filmmakers.

Since its inception, the hub has grown tremendously and has been able to offer a number of internship positions to our youth, who are now able to use the knowledge and skills gained for the period to create job opportunities for themselves and for others. Some of the skills offered at the hub include; scripting, filming, voice recording, animation; both 3D and 2D and video gaming. To grow the requisite human resource capacity for the industry, the hub also offers training opportunities for short courses in the film industry. The courses are designed in a manner that helps individuals acquire and develop valuable and relevant skills. Two short courses were launched in September 2020: Certificate in Animation Production and Script Writing.



Launch the DeKUT Kenya Film Commission Film Hub by the Cabinet Secretary Joe Mucheru.


2020
KENYA FILM COMMISSION




KENYA FILM COMMISSION
Film Kenya... Capture Africa!
he Kenya Film Commission/DeKUT Film, Animation and Gamin
was officially opened
By
Hon Joe Mucheru, E.G.H
Cabinet Secretary, Ministry of ICT, Innovation and Youth Affa
on
Thursday, 21st May 2020

DEDAN KIMATHI INNOVATION AND INCUBATION HUB (DeHUB)



DeHUB, a hub located at the foot of Mt. Kenya, at Dedan Kimathi University of Technology in Nyeri county was launched in March 2015 to support innovations commercialization. Although the hub is at the university, it supports innovators from the Mt. Kenya region. The hub has supported over 100 startups over the years.

DeHUB has proven to be the leading innovation hub in the Mt. Kenya region. The main activities at the hub include: incubation, mentoring through meetups, training and hosting competitive hackathons that give an output of innovations for incubation. The hub hosts mini hackathons called (Hack Rush) every fortnight from Friday 7 PM to Saturday 7PM to continue the culture of brainstorming and teamwork. This keeps most innovators motivated, and through the exchange of ideas, the quality of innovations at the hub has been assured.

Recently the hub hosted the Mt. Kenya Innovation Week; a collaboration between the United Nations Economic Commission for Africa (UNECA), Dedan Kimathi University of Technology Incubation and Innovation Centre (DeHUB) and Mt. Kenya Hub. The theme of the Innovation Week around highlighting Kenyans' innovativeness as a means of advancing the Big 4 Agenda and Vision 2030. Its goal was to promote meaningful policy discussions on innovation within institutions and the practical skills required to generate inventions that positively impact people. Such events and engagements also help in improving research and commercialization techniques for more substantial socio-economic implications.

DeHUB has so far attracted international recognition such as from the UK High Commissioner, H. E. Jane Marriot. When she visited, the High Commissioner interacted with different innovators taking time to learn about their innovations and with confidence, pledged support through the UK Tech Hub Kenya.
Some of the top startups at the hub (some of which are now fully established companies) include:

Rhions Lab Limited

Rhions Lab Limited is an innovation from two of our students, Clinton Odour and Julia Muiruri and alumnus Joshua Ndemenge that develops innovations that combine Artificial Intelligence, the Internet of Things and Cloud Computing to monitor and track wildlife in their natural habitat to reduce poaching and human-wildlife conflicts. This startup was born from project WildEye_KE which got the team to the top 10 finalists list in the 2020 Imagine Cup East, Middle East & Africa (EMEA) region under the mentorship of Dr. Ciira Maina; a Senior Lecturer in the department of Electrical & Electronics Engineering and a Data Scientist (currently the Director, Center for Data Science & Artificial Intelligence) and Mr. Kenneth Njihia, the Project Coordinator of the University's Innovation and Incubation Hub (DeHUB).

Recently, the Kenya National Innovation Agency (KENIA), a State Corporation established under the Ministry of Education managing the National Innovation System, on Monday 1st November 2021, awarded Rhions Lab Limited a financial grant of eight hundred thousand shillings (KES. 800, 000) after the start - up won the National Innovation Award 2020/2021.



Plant Signal

Plant Signal, an innovation from one of our students, Shadrak Kiprotich, is a company that seeks to help farmers against pre-harvest losses caused by pests and diseases. Just by taking a

picture of the suspicious crop, the farmer gets a real-time diagnosis for analysis and takes affirmed action therein.



IBEES

IBEES is an automated AI-powered beehive that increases honey production, reduces labor and reduces colony loss. According to research done by one of the founders of IBEES, bees are vitally important for the health of our planet. Bees are responsible pollinators for every third bite of food we take. Worldwide, approximately 1,000 plants grown for food, beverages, fibers, spices, and medicine need to be pollinated by bees to produce the foods we depend on to exist in this world. In recent years, annual bee colony losses have reached an unprecedented 30%. If Colony Collapse Disorder continues, we will be missing more than just our coffee and chocolate if it results in our bees dying.

IBEES is an automated beehive solution that lets beekeepers monitor the health of their beehives in real-time from their phones. Once installed on the beehives, beekeepers can: know the level of dampness which may lead to pest and diseases infestation or even lower the quality of honey produced, know the weight of their beehive in order to tell the best time to harvest honey without frequently disturbing the bee colony, get real-time alerts via SMS or IBEES App notification when their beehives have been knocked over or stolen or upon smoke detection which might be a sign of intrusion or honey stealing and also get to know when the Queen has stopped laying and the colony is about to become broodless. IBEES mobile notification allows beekeepers/ honey farmers to monitor all these things in real-time, keep records such as harvests, tasks and operations, and even receive notifications to remind them of inspections. The co-founders of IBEES are Jackline Tum, a 3rd-year student pursuing Bachelor of Science in Electrical and Electronics Engineering, Joseph Musya, a 4th-year student pursuing Bachelor of Science in Mechatronics Engineering and Clinton Odour, a 5th-year student pursuing Bachelor of Science in Electrical and Electronic Engineering.



Intellivolt

Power outage is not only a local problem but an international concern. In Africa, power is considered a luxury, and when it comes to its supply, it can mean life or death. For instance, one hundred fifty babies died on oxygen concentrators at a hospital in Jinja, Uganda, after the UMEME utility company experienced a prolonged outage.

Millions of dollars go down the drain every year due to unplanned and prolonged power outages. Power entities depend on customer calls to generate maintenance reports, and this causes a delay in fixing the fault.

Intellivolt System is an innovation from Aron Ayub and Edison Nguniri that provides real-time data, the precise location of the fault and can detect anomalies such as transformer overloads, over-voltage and under voltage.



THE UNIVERSITY FARM

Dedan Kimathi University of Technology has a farm that offers fresh organic products at subsidized prices. Further, in line with the University's focus on Quality Education, Research and Technology Transfer as well as service to the community, the University farm adopts the role of income generation while providing opportunities for research and training in crops and livestock farming.

There are three main sections: Coffee, Diary and Horticulture and several acres reserved as biodiversity refuge points.

Coffee Nursery

The University farm is engaged in producing high-quality coffee seedlings through the Coffee Productivity Project (CPP) that the European Union funded. The total acreage under coffee is 295, with a tree population of 179,879. Currently, the major varieties include Batian (65%), Ruiru 11 (15%), grafted Ruiru 11 (5%) and selected blocks of SL 28 (15%). Batian, a true-breeding variety, is the most preferred variety in the farm for its excellent characteristics, including strong deep roots that extend deep into the root zone, tolerance to leaf rust and coffee berry disease, and its high yield compared to the varieties. In collaboration with Coffee Research Foundation (CRF), the farm started a coffee nursery in 2012 to produce high-quality coffee seedlings to gradually replace the old coffee trees and distribute them to farmers in the region. The nursery has nine propagators used for the seeds' germination before they are transplanted into plastic bags and has a capacity of 140,000 seedlings. Current seedlings total to 104, 075 (main varieties are Ruiru hybrid and Batian).



Dairy

The livestock section specializes in Holstein Friesian dairy cows, pigs, goats and sheep. The farm currently has 63 cows, 49 pigs and 118 sheep & goats.





Horticulture

The area under horticulture is 40 acres with 8 acres under drip irrigation and five greenhouses. Major crops include common vegetables, beans, green maize, arrowroots and bananas.











DEDAN KIMATHI UNIVERSITY WILDLIFE CONSERVANCY



The Dedan Kimathi University Wildlife Conservancy (DeKUWC) is located in the heart of Nyeri forest, 7 kilometres from Nyeri town along the Nyeri - Nyahururu highway. The conservancy is characterized by a virgin forest that greatly serves the browsers and apes among others; open grassland that hosts grazers; a permanent river that provides drinking water to animals throughout the year; and man made water holes dug close to grazing areas.

The conservancy offers a Great Experience to visitors given the unique sceneries that include the reptile park, nature trails spread throughout the conservancy, the Llama that are hardly found in other parks and reserves, endangered species of birds, e.g. the Hinde's Babbler; which the University strives to conserve and increase their population; as well as the peaks of snow-capped Mt. Kenya which are clearly visible from DeKUWC on a sunny day. following researches have been published

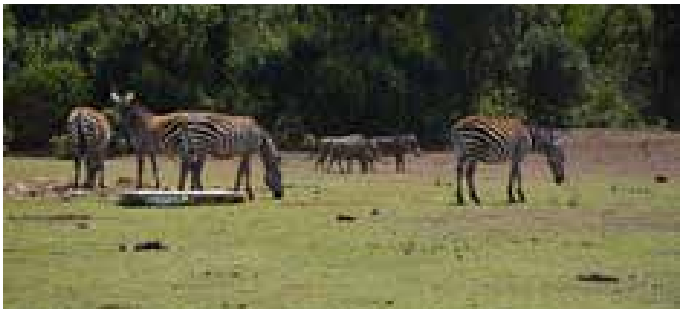




Unique Reptile Park



Andean Llama



Our Wildlife Variety



Jungle experience with expert lead guides



Defassa Waterbuck



Sykes Monkey



Cottages, Great Family Treat

Other resources of DeKUWC include an 80 Pax Seated Capacity Conference Hall suited for meetings, retreats, seminars, workshops and conferences, a campsite with a capacity of 50 which is well lit and has enough space for a bonfire as you enjoy your barbeque and drinks. Bush dinners, cocktail parties, and 3 course hotel cuisines are also hosted at the conservancy. In addition, the conservancy is home to open ground with grass that is open for events like games during team building, meetings, weddings, birthdays, picnicking, to mention but a few.

In line with enhancing Research as a pillar and area of focus, DeKUT conservancy provides a rich field for research in varied disciplines.

To this end, various areas of research have been facilitated by the conservancy and the following research has been published:

i. A Bioacoustic Record of a Conservancy in the Mount Kenya Ecosystem.

ii. Central Kenya Highlands Birds, Case Study of Dedan Kimathi University Wildlife Conservancy, Coffee Farm and Built area.

The conservancy proudly retains its rich diversity of flora and fauna, providing more ground for research. We warmly welcome interested researchers and scholars to advance their scholarly work here.



Exclusive Conference Hall

CENTRES AT DEDAN KIMATHI UNIVERSITY OF TECHNOLOGY

CENTRE FOR BIOMASS ENERGY STUDIES-ENG. PATRICK KIMARI

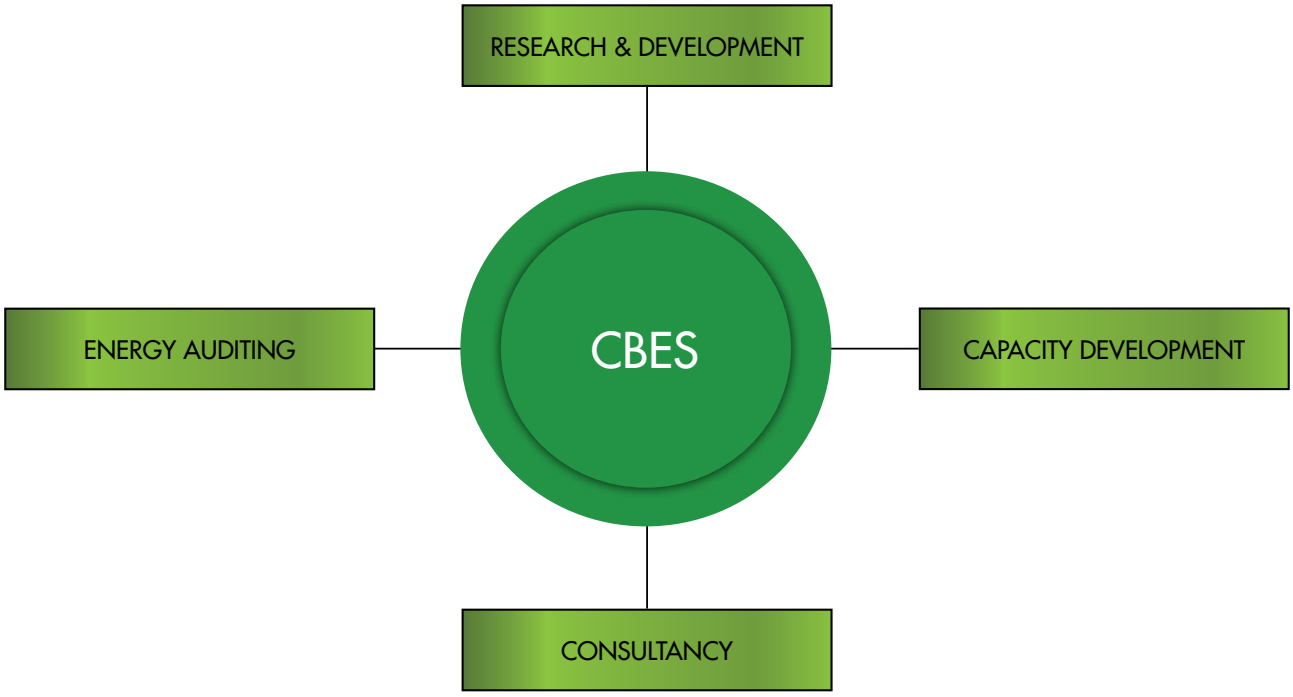
The Center for Biomass Energy Studies (CBES) is an autonomous, self-sustaining body under Dedan Kimathi University of Technology, GREEN Institute, established in October 2019.

CBES mandate/focus includes but not limited to research and consultancy work in:

i.. Sustainable Biomass Production
ii. Sustainable Bioenergy Systems (SBES)
iii. Bioenergy Conversion Technologies
iv. Biomass-Based Thermal Energy Systems
v. Biomass-Solar Thermal Hybrid Systems
vi. Energy Management/Energy Efficiency
vii. Energy Auditing

Besides research and development, the centre also carries out projects in:

i. Capacity development through approved and accredited technical and professional education and skills training, seminars, workshops, and conferences
ii. Biomass fuels strategy (sustainably managed woodlands, sustainable consumption) development and implementation
iii. Biomass-based thermal (steam, hot water, hot air) energy systems design, simulation, performance audit and optimization, inspection, certification, and other services.
iv. Biomass resources mapping and potential evaluation
v. Biomass projects carbon offset assessment
vi. Policy, legal and regulatory support on biomass fuel projects
vii. Knowledge management and awareness-raising amongst stakeholders
i. Investment and business promotion along biomass energy value chain
ii. Green economy advancement



As far as research is concerned, CBES specializes in research and development (R&D) in biomass biochemical conversion technologies, biomass thermal-chemical conversion technologies, biomass-based chemical production technologies, waste treatment technologies/circular production/ economy and bioenergy with carbon capture and storage (BECCS) technologies.

Key research focus areas include biodiesel, fuel ethanol, biomass pyrolysis and gasification, biomass gasification and power generation, synthesized fuels, municipal solid waste (MSW) treatment, and utilization.

Being the anchor Centre of the GREEN Institute, it carries the institute's mandate and offers services covering all energy sources, energy efficiency/ energy management, and other sustainability projects.

The table below presents potential projects that CBES will engage in/implement from 2020 to 2024.

	PROJECTS	YEAR 1 2020	YEAR 2 2021	YEAR 3 2022	YEAR 4 2023	YEAR 5 2024
1.	Continuous Professional Development (CPD) training in renewable energy use/integration and energy efficiency					
2.	Water and Energy for Food (WE4F) project (GIZ-Kenya)					
3.	Energy and water use mapping in various productive sectors					
4.	Cook Stove Project (GIZ-EnDEV)					
5.	Promotion of Climate Friendly Cooking in Kenya (GIZ-EnDEV)					
6.	Specialized laboratories establishment					
7.	Pilot research and training biogas plant					
8.	Pilot research and training biomass pretreatment plant					
9.	Pilot research and training Gasification & Cogeneration plant					
10.	Establishment of a pilot Biorefinery					
11.	Decarbonization projects in the agro-processing industry					

In the academic year 2020/2021, the centre, with financial support from GIZ innovations funding, supported three final year projects in the Department of Mechanical Engineering. The three projects were: Solar Crops Drier, Solar Cooler and Clay Pulverizing Machine.

CENTRE FOR DEVELOPMENT OF ELECTRONIC DEVICES

By Mr. Julius Karanja

The establishment of the DeKUT Science and Technology Park (STP) has brought in insurmountable opportunities and facilities that the University can leverage to develop electronic products locally instead of producing the products abroad. One of the facilities established at the STP is the electronic devices assembly plant.

To tap into these opportunities, DeKUT established the Centre for Development of Electronic Devices (CDED), headed by Mr. Julius Karanja, who spearheads the development of innovative electronic devices in order to provide solutions to various societal problems. To date, the assembly line has been set up, and a number of devices have been earmarked for production on this plant.

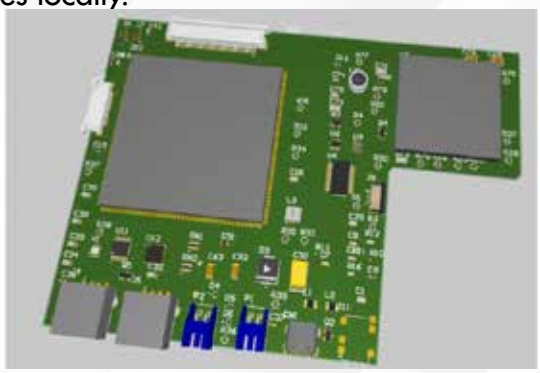


A view of the electronic devices assembly line

One key product is the Digital Learning Device (DLD). This is a computing device to provide access to education materials by all learners countrywide beyond the traditional classroom environment.

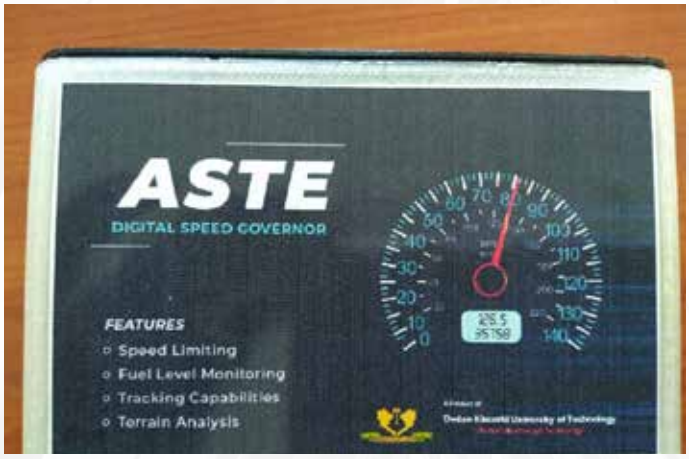
This project is being undertaken together with a number of collaborators who include: Intel Corporation, Asytec Kenya Limited and Semiconductor Technologies Limited. There are also several stakeholders involved, key of them being the ICT Authority (ICTA), Ministry of Education (MoE) and Kenya Institute of Curriculum Development (KICD).

In this project, DeKUT is designing the Digital Learning Devices for the various levels of learners with the support of the Intel team. A prototype has already been developed and is currently undergoing testing and review. Once the design is complete, the production will start at the newly installed DeKUT Assembly Line. This will guarantee 100% design and production of the devices locally.



DLD motherboard designed at CDED

Several other electronic devices will be assembled at the plant. Key among them is the DeKUT, 'ASTE' Digital Speed Governor. The design of this device has already been done, and it is currently undergoing testing for purposes of approval and licensing by the relevant government agencies. Once the licence is issued, mass production of the ASTE speed governors will start at the assembly line.



DeKUT Digital speed governor

Another product that has been earmarked for production at the assembly line is the Digital Intelligent Water Meter. Several stakeholders in the water services sector have expressed interest to partner with the CDED to develop and pilot the concept of smart water meters. It is projected that about 40,000 smart water meters will be produced annually once the design and piloting are done.

CENTRE FOR EXCELLENCE IN COMPETENCE BASED EDUCATION TRAINING (CCBET)

The Centre for Excellence in Competence-Based Education and Training (CCBET) is a Dedan Kimathi University of Technology (DeKUT) senate approved Centre. The mandate of the Centre is to trail blaze research in:

i. Continuous professional development models for practicing technologists and trainers
ii. Pedagogy and Andragogy for Technical and Vocational Education and Training (TVET)
iii. Policies issues in TVET and general education
iv. Comparative studies in TVET education

Vision

To excel in quality research and consultancy in competence-based knowledge transfer for self-reliance, policy and national development.

Mission

To advance the TVET field to spur national development through conducting cutting edge research and consultancies in competency-based education and training for self-reliance.

Philosophy

Education research for social change and self-reliance

Motto

Active experimentation, individuality, progress, and change are fundamental to one's education.

Programmes

In advancing her philosophy and mission, CCBET has researched and developed continuous professional development courses that aim to retool TVET trainers to implement the TVET curriculum to bring social change and self-reliance. The designed courses are:

A: Capacity Building of TVET Trainers

i. Historical positioning of TVET in Kenya
ii. Philosophical foundations of TVET
iii. Designing, implementing and evaluating CCBET curriculum and instructions
iv. Designing, implementing and assessing occupational standards
v. The psychology of training in TVET
vi. Emerging andragogy and pedagogy for TVET
vii. Open distance and e-learning teaching strategies
viii. CCBET testing, measurement, assessment and evaluation
ix. Subject instructional methods and strategies in TVET
x. Comparative education for international consciousness

B: Governance of TVET Institutions

Capacity building on governance will cover the following modules:

1.Module One: Overview of Governance of TVET Institution

i. Introduction to governance
ii. Education curriculum planning and management
iii. Organization structure of TVET system in Kenya
iv. Leadership and corporate governance in TVET institutions
v. Dealing with diversity (conflict and group dynamics)
vi. Policies and legislative frameworks in TVET
vii. Functions of; principals, boards, councils and committees
viii. Improving quality, accessibility, inclusivity and relevance of TVET education
ix. Management of meetings
x. Sensitization on MWONGOZO guidelines

2. Module Two: Financial Administration and Management

i. Financing of TVET education
ii. Mobilization of resources
iii. Short-term decision-making tools
iv. Allocation and utilization of resources
v. financial management
vi. Sustainable Procurement
vii. Human resource management HRM

3. Module Three: Risk Management and Compliance

i. Operational Risk Management
ii. Assurance & Compliance
iii. Contracts Management
iv. Technology & Risk Management
v. Supply Chain Management
vi. Audits and financial reporting

Research

The Centre has research interests in:

i. Continuous professional development models for practicing technologists and trainers
ii. Pedagogies and Andragogies for Technical and Vocational Education and Training (TVET)
iii. Policies issues in TVET and general education
v. Comparative studies in TVET education

Currently, the Centre is implementing two research projects namely:

i. Research on teaching Engineering Drawing using multimedia and virtual reality technologies, which is being funded by Kenya Education Networks (KENET).
ii. Research on the viability of online teaching of engineering courses and other technology-related fields.



SIEMENS CENTRE

The Siemens Mechatronic Systems Certification Program is the international industry standard for comprehensive skills certification in mechatronic systems offered together with Siemens SITRAIN Germany. The need to offer this certification for more quality mechatronics and mechanical engineers graduating from DeKUT, the DeKUT Siemens Centre was established in 2016. Since inception, the centre has made significant contributions to engineering in Kenya by embracing industry 4.0 technology. This has been in the form of published research, organizing and spearheading successful Mechatronics Skills Competitions and key collaborations that include:-



i. Siemens Germany to offer SMSCP.
https://new.siemens.com/global/en/products/services/industry/sitrain/smscp.html
ii. Engineering Board of Kenya that certified DeKUT Siemens Centre to offer Continuous Professional Development for registered graduate & professional engineers, respectively.
https://ebk.or.ke/
iv. National Industrial Training Authority to offer internship opportunities for graduates.
https://www.nita.go.ke/training-centres.html

Motto
Change Africa for the Better.

Vision
To bridge the gap between higher-educational institutions and industries by providing world-class professional training and research.



Mission
To advance on-class and on-job training and disseminate the 4th Industrial Revolution Concepts.

Philosophy
DeKUT Siemens Centre is founded on independent scholarship and learning freedom while fostering a culture of innovation and collaboration. The Centre is committed to equality of opportunity, engendering inclusivity and supporting staff and trainees well-being, ensuring that the very best trainees and staff benefit the society locally, nationally, and globally. Likewise, the centre's collegiate structure and interdisciplinary nature of programmes provide her with key aspects of her training strength and her highly attractive trainee experience.



CENTRE FOR INNOVATION AND ENTREPRENEURSHIP MANAGEMENT (CIEM)

The Centre for Innovation and Entrepreneurship Management was established in 2018 with the key mandate of facilitating the enhancement and development of innovation and entrepreneurship culture among the University's fraternity and the community at large.

OUR OBJECTIVES ARE:

i. Offer capacity building programmes in entrepreneurship and innovation to support the creation of new business enterprises and expansion of existing ones.

ii. Serve as a one-stop resource Hub for innovators and entrepreneurs on different product value chains.

iii. Support development of winning business plans for innovators and entrepreneurs as an essential tool for financial access and management

iv. Facilitate access to networks, support agencies, equipment and resources to entrepreneurs and innovators to accelerate their actualization into commercially viable enterprises

v. Provide mentorship and business coaching services to innovators and entrepreneurs and facilitate the transfer of technological and entrepreneurial knowledge and skills for enterprise development and growth.

vi. Conduct Research and provide data to inform policy development and /or review in relation to Start Ups and Small and Medium Enterprises

COLLABORATIVE INITIATIVES

CIEM has established key collaborations with the County Government of Nyeri, County Government of Laikipia and is in the process of establishing one with Micro and Small Enterprises Authority (MSEA).

The following are the activities conducted under the collaborations:
One of the key deliverables of CIEM under its collaborations with the Department of Trade, Tourism, Culture and Cooperatives Development; County Government of Nyeri, will be to train 600 leaders of the cooperative societies in Nyeri County. CIEM has also partnered with the Department of Gender, Youth and Social Services; County Government of Nyeri to conduct a Training Needs Assessment for women and youth groups.
The surveys, done online with a mixed methods survey approach was completed in November 2021 and reports prepared to inform a capacity building programme for the groups. CIEM is in discussion with the department to undertake capacity building programmes for youth and women groups with an entrepreneurial focus.
CIEM has also partnered with the County Government of Laikipia in supporting the Micro and Small Enterprises (MSEs) and one of its key output was the preparation of business plans for 10 MSEs which have been completed and submitted to the business owners.
ENTREPRENEURIAL TRAINING
The Centre hosted the Entrepreneurship for Everyone Program (E4E) in conjunction with the Startup Centre. E4E is an Entrepreneurial Training Program carried out in collaboration with Saarland University in Germany. The Program had a total of 139 participants who were taken through the training for a period of 11 weeks. The Program climaxed with the DeKUT Startup Fair 2021 which took place from 8 th October 2021 to 10 th October 2021 at DeKUT. The event attracted 90 participants from DeKUT, Karatina University, Chuka University and Tharaka Nithi University College.



The group photo of the participants during the startup weekend with the Chief Guest startup weekend; DVC AAR, Prof. Esther Magiri (second left) flanked by from left: Mr. Nida , German Judge in the event, Laikipia County Government Director for Innovation and Trade ; Ms Winnie and Director CIEM; Dr. Rosemary Kagondu

CENTRE FOR INDUSTRIAL PRODUCTIVITY AND ENGINEERING (CIPE)

The DeKUT Center for Industrial Productivity & Engineering (CIPE) has built expertise in Industrial Engineering and Management to plan, design, implement and manage integrated production and service delivery systems to ensure performance, reliability, and maintainability, schedule adherence and control. CIPE leverages on this expertise to support industrial sustainability through training, industrial project development and consultancy.

Motto
Engineering-based productivity improvement

Vision
To enhance industrial productivity, quality and maintenance performance by providing world-class professional training, consultancy and research.

Mission
To advance on-class and on-job training, research and consultancy to improve organizations productivity.

Services

1. Training



Our robust and high-calibre technical training solutions are developed by subject matter experts to help organizations improve organizations' productivity and boost employees' careers and skillsets – core enablers of competitive advantage and sustainable business development. We provide innovative learning and development solutions, covering multiple areas and industries, tailored to your needs. To ensure training objectives are met wherever you are, we provide flexible training options delivered virtually (eLearning) or face-to-face (either on-site or off-site). Our training utilises subject matter experts to provide valuable real-world applicative insights moving beyond theory. We share our expertise, thereby unlocking potential and building capacity; a significant factor in individual and company success. As a result, you can trust us to provide high-quality, consistent training and development for your organization.
Our training agenda is categorized into 3 training pillars:

Productivity
Quality





Maintenance Management
Sample Short-Courses



. Maintenance Engineering and Management
. Engineering Safety
. Quality Engineering
. Productivity & Quality Improvement
. Lubricant and Lubrication Technology
. Maintenance Data Analysis

2. Consultancy



Your production, operations and products must comply with your strategies and target market requirements to ensure you gain and improve on competitiveness, profitability and productivity. Whether you're experiencing challenges with the organization's productivity, manufacturing, maintenance, quality or need a new business strategy to reflect your envisioned future, we're here to help. Identifying and meeting those requirements is a complex challenge. Our consultancy services can help you understand and meet these demands, whatever your industry. CIPE conducts consultancy services in designing efficient systems with innovative solutions to move your business forward.

3. Industrial Productivity Improvement Research and Projects



Are you looking to implement business-enhancing, agile production and maintenance services that improve the organization's performance? Using proven research-based solutions, CIPE helps you improve productivity, quality and maintenance performance with proven and time-tested approaches. We will walk with you to evaluate your current position, navigate challenges by developing an articulate road map addressing the needs, ensuring you reach your goals and sustain performance.
This is articulated using designed tailored projects and research in your organization; from developing strategically aligned objectives to implementing and reviewing the well-crafted decision support.

CONTACTS	
Email:	peter.muchiri@dkut.ac.ke *or* james.wakiru@dkut.ac.ke
Cell:	+254 717 877044 *or* +254 737 737023





DeKUT Centre for Industrial Productivity & Engineering (CIPE) conducting an Industrial Training at Torrent East Africa Ltd

CENTRE FOR COFFEE TECHNOLOGY & FOOD SAFETY

The mandate of the Coffee Technology and Food Safety Centre is to implement the academic, research and technology transfer objectives within the coffee value chain. DeKUT coffee farm is a 684-acre mixed coffee, dairy and arable production farm. About 302 acres of the farm is under coffee; the dominant variety being SL 28 with a few Batian and Ruiru 11 coffee trees. The farm also has a coffee nursery with a capacity of 70,000 seedlings. This interest in coffee farming that the University has stayed true to since inception calls for a dedicated centre for efficiency and sustainability.

Strategic thematic activities of DeKUT Coffee Technology Center are aimed at achieving the following objectives:

i) Enhanced coffee production quantities.
DeKUT coffee nursery has distributed about 45,965 high-quality coffee seedlings to farmers from May 2016 to June 2017 at affordable rates. The centre strives to ensure that this only gets better.





ii) Improved coffee quality and prices
The center has successfully implemented quality advisory to farmers and cooperatives through coffee cupping tasting facilities for farmers with expert cuppers at affordable rates. Over 300 samples have been analyzed and appropriate information provided to the farmers. The Center has also participated in several community coffee extension services through exhibitions and agricultural shows.

As part of the Vision 2030 flagship project, DeKUT has acquired a Coffee Pilot Packaging Plant for value addition and capacity building of stakeholders on coffee value chain development. The center has also trained farmers and cooperative management boards, like Othaya Coffee Cooperative, on best practices in Coffee Technology and Quality Management through customized short courses. The staff and students continuously carry out adaptive research and innovations on best practices along the coffee value chain towards improved quality and price. Some of the research outputs include enhanced awareness of safety assurance through prevention of mould contamination and improvised fermentation techniques during peak harvest seasons.

iii) Improved technical capacity of professionals in Kenya's Coffee Sector
The center oversees the implementation of the Certificate/Diploma in Coffee Technology and Quality Management programme. The main goal of these programmes is to impart appropriate knowledge and skills on best practices in the coffee value chain. This is done in collaboration with stakeholders like the Coffee Directorate.
iv) Enhanced youths empowerment for self-employment and gender equity in the coffee sector
The Coffee Technology and Quality Management Programme targets high school graduates and those already employed in the coffee sector. In addition to the core technical skills in Coffee Technology, learners are exposed to other skills like entrepreneurial Skills, Communication Skills, Information Communication Technology and Principles of Management.
v) Environmental conservation through improved coffee waste management

The centre has made several efforts towards awareness creation on improved coffee waste management practices; further linking to specialized niche markets with higher income such as Fair Trade branding. The staff and students attached to the center are also actively involved in innovations on utilization of coffee waste through research on the extraction of pectin from mucilage for reuse in food/ pharmaceutical applications and other coffee waste byproducts.

To further contribute towards environmental conservation, the Center is keen on promoting improved water resource management, e.g. through the adoption of Eco-pulper for wet processing of coffee.

vi) Coffee Tourism Model

The Center has successfully piloted a coffee tourism model covering the coffee value chain from nursery to cupping. About 200 local and international visitors have been taken through the coffee value chain from seedlings propagation to cupping at DeKUT.



British High Commissioner, H. E. Jane Marriot having a taste of our DeKUT Coffee



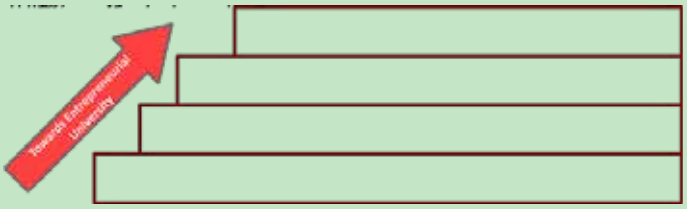
Courtesy visit by a team from South Face Organization and Incapto Coffee from Spain to discuss future collaborations and partnerships on various aspects such as; coffee value addition, coffee agro-tourism and marketing and scholarship opportunities for Diploma Coffee Technology students.

STARTUP CENTRE

One may wonder, what happens to the research output generated by the universities every year? What about the good innovations and business ideas generated by the students? …… Well, Dedan Kimathi University of Technology (DeKUT) has provided answers to those questions!

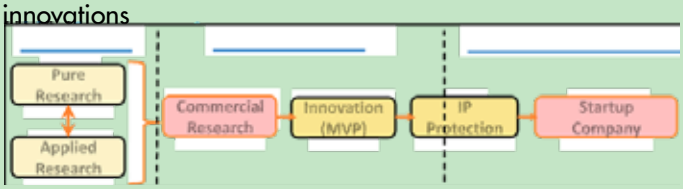
The University Management, in fulfilment of the University strategic plan, has been working towards making DeKUT an entrepreneurial university, which turns the research output into innovations that are commercially viable, and eventually, supporting the innovations towards establishment of startup companies and fledgling enterprises (see Fig 1) by student innovators.

Figure 1: The University roadmap towards being an entrepreneurial University



Towards making DeKUT an entrepreneurial University, the management has established the DeKUT Startup Centre (DeStaC). Among the objectives of DeStaC is to enhance the entrepreneurial ecosystem in the university, where innovators will find an avenue to commercialize their ideas and launch startup companies. Further, DeStaC will provide a support process that accelerates the successful development of start-up and fledgling companies by providing an array of targeted resources and services. This framework will enable the University to support and take the viable startups through the acceleration process and graduate them into financially viable and freestanding companies.

Figure 2: The DeKUT Startup Cycle for commercialization of innovations



The DeKUT Startup Centre (DeStaC) has been mandated to oversee the full startup cycle (see Fig 1) towards commercialization of innovation, protection of intellectual property (IP), up to the support of startup companies. The research work taking place in the faculties may be classified largely as pure or applied research. But in order to develop commercially viable products or innovations, which can be termed as a minimum viable product (MVP), commercial research and development are imperative. A minimum viable product (MVP) is a version of a product or innovation, with just enough features to be usable by early customers as a commercial product, who can then provide feedback for future product development. Once this MVP is established, IP protection is sought through patent. Finally, the Startup Company was established to support the commercialization of innovation. DeStaC has embarked on this journey and has vetted a number of innovations, of which some have been admitted to the Startup center for commercialization support.



The award of the winners of the DeKUT StartUp Fair, organized by DeKUT StartUp Centre (DeSTaC), in collaboration with Saarland University, Germany

In order to promote an entrepreneurial mindset among students, DeStaC, in collaboration with the DeKUT's Centre for Innovation & Entrepreneurship Management (CIEM), DeKUT Incubation Hub (DeHUB), and Dedan Kimathi University – Science & Technology Park (STP), organized a Startup fair where student innovators and entrepreneurs came together to ideate, form teams and launched their business ideas, with the aim of commercialization. The Startup Fair was supported by DAAD, Germany, within the project titled, "Development of entrepreneurial universities of Kenya" (DePUK), implemented by DeKUT in collaboration with Saarland University, Germany, Chuka, and Karatina University.

Through the established entrepreneurial ecosystem, DeKUT endeavors to promote the potential of Startups to create jobs, commercialize new technologies, and strengthen the national economy. Thus, the DeKUT Startup Centre will provide an ecosystem that promotes the identification, enrolment, support, acceleration, and establishment of startups to contribute to the attainment of national goals.





Fig 4: Student innovators pitching their business ideas in the DeKUT Startup fair organized by DeStaC.

Other centres include:

i. Centre for Geotechnical Engineering
ii.Center for Data Science and Artificial Intelligence
iii.Centre for Data Research and Cyber Security
iv.Software Development Centre
v.Centre for Economic Policy & Technology Development Studies
vi.Centre for Nano Materials & Nano Science Research
vii.Centre for Spatial Information Science and Systems
viii.Centre for Water Resources Management
ix. Centre for Excellence in Teaching & Learning in Higher Education

MAKING A DIFFERENCE IN OUR STUDENTS' LIVES THROUGH NEWLY CREATED DEPARTMENTS

In addition to centres, the University has created new departments to serve our students better. The departments include:

i. DeKUT Office of Career Services (DeKUTOCS)

ii. DeKUT Financial Aid Office (DeFAO)

Dedan Kimathi University of Technology Office of Career Services (DeKUTOCS)



Dedan Kimathi University of Technology's mission is "To provide an academically stimulating, culturally diverse and quality learning environment that fosters research, innovation and technology development towards producing relevant technical and managerial human resource and leaders to contribute to attainment of national development goals." Since inception, the University has stayed true to this mission with her eyes on the ultimate goal of moulding the institution into one that is known for world class research, academic excellence, an exceptional staff and students, and one that harbors the highest level of innovation, creativity, scholarship and enterprises as captured in the University's philosophy.

With the changing times and the challenge of high rate of unemployment, the University has continued to adopt various styles of moulding the students in effort to prepare them adequately for the changing world market and the challenges that come with it. It is in this spirit that DeKUT Office of Career Services (DeKUTOCS) was recently established with the goal of:

i. Supporting students realize their full academic potential.
ii. Producing graduates who are prepared for the world of work and whose character reflects DeKUT core values and philosophy.
iii. Enhancing the rate of paid employment and self-employment achieved within the first 12 months of graduation.
iv. Building the career guidance capacity of the staff and the University.
v. Enhancing DeKUT's graduate long-life employment.

Guided by her vision of empowering Dedan Kimathi University of Technology students to achieve a successful and fulfilling career and positively impact the world, DeKUTOCS will complement and support already existing efforts by the University through various programmes, departments, centres and initiatives bringing in to the fold her own initiatives with the understanding that it is one thing for a student to enroll in a, study it successfully, pass all exams and graduate and it is another to grow through that process into a professional with broad knowledge and application of the same in their field as well as a professional with all the necessary skills to navigate the world of work successfully. Further, Dedan Kimathi University of Technology identifies herself as an Entrepreneurial University hence has the focus of 'raising' students with the ability to develop new solutions to problems be it in the context of employment in a company or in self-employment. Through DeKUT Office of Career Services, the University looks to enhance this focus and ensure that students' acquire soft skills, professional skills as well as attitudes relevant to their post-graduation employability

As our (DeKUTOCS) slogan goes, we look forward to inspiring and empowering our students to build a career they love.

We can be reached via email address careerservices@dkut.ac.ke.









DeKUT Financial Aid Office (DeFAO)

Dedan Kimathi University of Technology Financial Aid Office (DeFAO) is domiciled under Registrar, Academic Affairs & Research. Its main responsibility is to guide and support students with financial challenges.

Through DeFAO, DeKUT endeavours to enhance and diversify sources of funds to support needy students and ensure that such students continue with their studies uninterrupted.

Who is eligible for DeFAO Support?

Any DeKUT student who is unable to finance their university education fully in a given semester.

Application Procedure

Step I: Application

A student applies for support using the DeFAO Financial Needs Assessment Form (To be provided at the office).

Step II: Verification of documents and information provided

a) DeFAO will verify the details provided in the Financial Needs Assessment Form and provide feedback to the applicant – i.e., whether the application was successful or not.
b) If not successful, the applicant will be advised accordingly.

Step III: Successful Applications

a) Successful applicants are advised on the level of support offered. The approval will be based on the assessed level of need.
b) An applicant will be awarded applicable support, subject to availability of funds and/or opportunities, e.g., work-study.

Step IV: Monitoring and Support

DeFAO will regularly monitor all applicants irrespective of the outcomes or observations made under Step II. The aim is to ensure that as many students as possible are supported.

Students Responsibility

The students' responsibility is to seek support and provide correct information/documentary evidence for assessment. Provision of incorrect information will attract stiff penalties, which include but are not limited to disciplinary action and denial of future support.

For more information contact:	
Office Number	0794461607
Email address:	defao@dkut.ac.ke




the Dedan Kimathi University
Charity Golf Tournament
Venue: Nyeri Golf Club
DEDAN KIMATH
UNIVERSITY
TECHNOLO
Motto
Vision Statemen
Mission State
Nderitu Ndegwa
Scholarship for Critical Thinking
Communication Skills and African History
DeKUT Endowment Fund


Charity Golf Tournament
Venue: Golf Club
DEDAN KIMATHI
UNIVERSITY OF
TECHNOLOGY
Motto
Vision Statement
Mission State
Joseph Nguru Kabugi
Scholarship for Innovation
DeKUT Endowment Fund


Venue:
Golf Club
Motto
Raphael Anampiu
Scholarship for Banking Studies
DeKUT Endowment Fund

PICTORIALS



Launch of the DeKUT Kenya Film Commission Film Hub which was presided over by the Cabinet Secretary Joe Mucheru

Dedan Kimathi University of Technology (DeKUT) signs a Memorandum of Understanding with the Kenya Industrial Property Institute (KIPI)





DeKUT Mock Wedding

DeKUT Siemens Centre receive various equipment from FESTO, a German multinational industrial control and automation company, in preparation for the WorldSkills Mechatronics Competition





Housing Scheme members receive title deeds from Kimathi Makao and Company Ltd.



Semiconductor Technologies Limited inks a lease deal with Dedan Kimathi University of Technology for space within Dedan Kimathi Science & Technology Park



President Uhuru Kenyatta, during the launch of the Semiconductor Technologies Limited



Vice Chancellor, Prof. Ndirangu Kioni, Presiding over the Launch of the Chaplaincy Policy and Commissioning of the Team of Collaborators at the DeKUT Freedom Hall.



Induction Training for DeKUTSO Leaders 2021 / 2022

ACADEMIC PROGRAMMES

SCHOOL OF ENGINEERING

- PhD Mechanical Engineering
- Master of Science in Telecommunication Engineering
- Master of Science in Machine Tools Designs & Manufacturing
- Master of Science in Advanced Manufacturing &Automation Engineering
- Master of Science in Industrial Engineering and Management
- Master of Science in Civil Engineering
- Master of Science in Mechanical Engineering
- Post Graduate Diploma in Technical and Vocational Education Training
- Bachelor of Science in Electrical and Electronic Engineering
- Bachelor of Science in Civil Engineering
- Bachelor of Science in Mechatronic Engineering
- Bachelor of Science in Mechanical Engineering
- Bachelor of Science in Chemical Engineering
- Bachelor of Science in Telecommunication Information Engineering
- Bachelor of Education in Technology (Civil Engineering)
- Bachelor of Education in Technology (Electrical and Electronic Engineering)
- Bachelor of Education in Technology (Mechanical Engineering)
- Bachelor of Technology in Building Construction

INSTITUTE OF GEOMATICS, GIS & REMOTE SENSING (IGGReS)

- PhD in Geomatics & Geospatial Information Science
- Master of Science in Geospatial Information Systems and Remote Sensing
- Bachelor of Science in Geomatics and Geospatial Information Systems
- Bachelor of Science in Geospatial Information Science and Remote Sensing

GEOTHERMAL ENERGY TRAINING AND RESEARCH INSTITUTE (GETRI)

- Master of Science in Geothermal Energy Technology
- Post Graduate Diploma in Geothermal Energy Technology
- Bachelor of Science in Geology

SCHOOL OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

- PhD Computer Science
- Master of Science in Computer Science
- Bachelor of Science in Computer Science
- Bachelor of Science in Business Information Technology (BBIT)
- Bachelor of Science in Information Technology (IT)
- Diploma in Information Technology
- Certificate in Information Technology

SCHOOL OF SCIENCE

- Master of Science in Chemistry
- Master of Science in Leather Technology
- Master of Science in Industrial Mathematics
- Bachelor of Science in Industrial Chemistry
- Bachelor of Science in Polymer Chemistry
- Bachelor of Science in Leather Technology
- Bachelor of Science in Actuarial Science
- Bachelor of Science in Mathematics and Modeling Process
- Diploma in Leather Technology

INSTITUTE OF FOOD BIORESOURCE TECHNOLOGY

- PhD in Food Science and Technology
- Master of Science in Food Science Technology
- Bachelor of Science in Food Science and Technology
- Bachelor of Science in Nutrition and Dietetics
- Diploma in Food Science and Technology
- Diploma in Coffee Technology and Cupping
- Certificate in Coffee Technology and Quality Management

SCHOOL OF NURSING

- Bachelor of Science in Nursing (Direct Entry)
- Bachelor of Science in Nursing (Upgrading)

INSTITUTE OF TOURISM HOSPITALITY MANAGEMENT

- Master of Science in Sustainable Tourism and Hospitality Management
- Bachelor in Sustainable Tourism and Hospitality Management
- Diploma in Sustainable Tourism and Hospitality Management

INSTITUTE OF CRIMINOLOGY, FORENSICS AND SECURITY STUDIES (ICFoSS)

- Master of Science in Forensics and Security Management
- Bachelor of Science in Criminology and Security Management
- Diploma in Security Management

SCHOOL OF BUSINESS MANAGEMENT AND ECONOMICS

- PhD in Business Administration & Management
- Master of Science In Economics
- Master in Business Administration
- Master of Science in Supply Chain Management
- Bachelor of Purchasing and Supplies Management (BPSM)
- Bachelor of Commerce (BCom)
- Bachelor of Business Administration (BBA)
- Diploma in Business Administration (DBA)
- Diploma of Purchasing and Supplies Management (DPSM)

INSTITUTE OF TECHNICAL AND PROFESSIONAL STUDIES (ITPS)

- Diploma in Furniture Technology and Interior design
- Diploma in Metal work, Welding and Design
- Diploma in Building Technology
- Diploma in Fashion Design & Interior Decoration
- Diploma in Electrical &Electronics Engineering (Power Option)
- Certificate in Furniture Technology and Interior design
- Certificate in Building Technology
- Certificate in Fashion Design and Interior Decoration
- Certificate in Electrical and Electronics Engineering (Power Option).
- Certificate in Metal work, Welding and Design
- CCNA I, II,III ,IV

PROFFESIONAL AND CERTIFICATION COURSES

- CPA Sec. I-VI
- Certificate in Accounting and Management Skills
- ATD Level I , II & III
- Associate in Procurement and Supply of Kenya (APS-K)
- Certified Procurement and Supply Professional of Kenya (CPSP-K)
- Siemens Mechatronics Systems Certification Program (SMSCP) LEVELS 1-3



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