



CEDAT

Newsletter

Apr—Jun 2021



21 STUDENTS GRADUATE WITH FIRST CLASS FROM CEDAT

The College of Engineering, Design, Art and Technology this year graduated over 500 students with 21 students graduating with First Class Honors degrees in various fields. This year's graduation



Coutinho. K. Gloria

ceremony was held from May 17 to May 21, 2021.

Some of the best students shared with us their motivation to succeed at the university.

Coutinho. K. Gloria

I am a proud artist and an emerging fashion designer. My three-year journey at the Margaret Trowell School of Industrial and Fine Arts can best be described as an extreme sport indeed! However, despite it being significantly challenging, I feel a great sense of fulfilment because Art is my calling and therefore, I wouldn't trade my experience for anything. My success is inspired by an inbuilt drive for perfection and excellence. In addition, I

applaud Makerere University for giving creatives

the freedom of expression as well as a conducive environment to blossom and impact positively on society. Last but not least, to mom and dad, for the moral and financial support in a world where the idea of a career in art is often received with a lot of skepticism, gratitude is a must!

Karungi Prunella Nielsen

I am a goal-oriented person. I came to campus with a goal of getting a First-Class degree and nothing less. That meant I had prepared my brain for the task ahead and was determined to work as hard as I possibly could to attain it right from the first year. People make



Karungi Prunella Nielsen

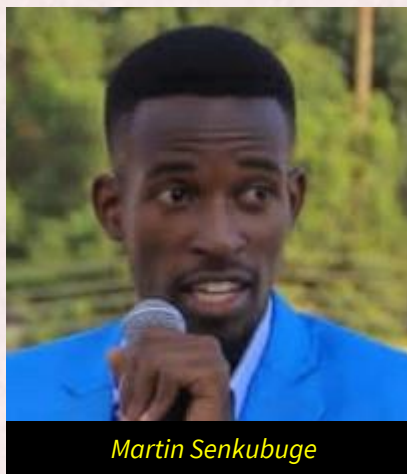
the

up to my mother and other ladies in the world that have succeeded in using art to express and reveal themselves. This motivated me to take it on and push this talent to another level.

This talent was driven by passion. I was doing what I love most 'art'. That forced me to work hard, be persistent and the desire to achieve my academic excellence in art. It has been said by many students that its impossible to get a first-class degree in BIFA, it is this myth that I wanted to demystify. I am glad I did.

Martin Senkubuge

I'm Martin Senkubuge aka SMQ, during my first week at campus I met with my Primary and High school (Ntare



Martin Senkubuge

School) friend Davis Tushabomwe, who was doing Petroleum Geoscience and Production. We had a three-hour conversation and he shared with me basic principles of managing campus life and academic excellence.

Out of this long and impactful conversation, I came up with my three principles

1. Living a life without regrets, this controlled my decision making all the time, amidst campus life temptations
2. Never be a beggar. This always encouraged me to work on everything myself incase no one was there to help

3. Act like a fool and be a good listener. This helped me so much in my course since I knew I was an exceptional piece of talent. I had to ensure that I listen to whatever my lecturers and professors passed on to me, whether it made sense at that moment or not, I always believed it would later. This is where most students always think they are too smart than their lecturers and professors. This principle guided me so much and helped me stay Humble

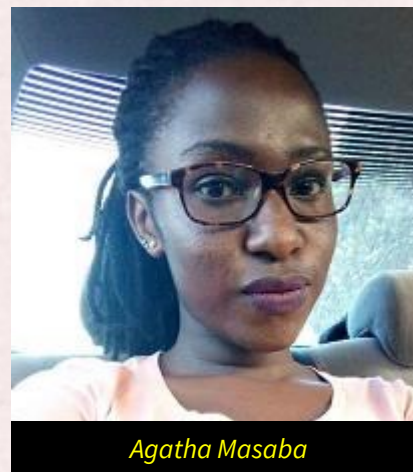
I surely had a number of challenges throughout my years at campus however they never affected me so much since I was passionate about what I was doing.

I had to always raise some money out of small projects to ensure that I submit daily courseworks in time, my friends always complained about my red eyes since most of them didn't know about my sleepless nights and busy schedules during day.

Agatha Masaba

I had heard from many Alumni, that BIFA wasn't easy but being a born again Christian always reminded me that Greater is He in us than the one in the world.

And I knew that through prayer, hard work and respect for my principles, I would definitely make it and I did



Agatha Masaba

mistake of playing around in first year and yet it's the stage when things are a bit easier and is a great opportunity to maximise your chance to excel since it contributes to the final score at the end of the course, rather than wait for things to get harder and accumulate.

I believe the company one keeps affects the manner in which they conduct themselves. I for one identified people who shared in the same goal with me and made them very close friends of mine and were actually part of my discussion groups: Owino Shelah, Owot Derrick, Kagimu Solomon were among them. We motivated and challenged each other to push to our best at all times even when it got tiring and that's what kept us going, which is why we were all able to attain first class degrees.

I really wanted to make my parents proud. I have been blessed with both parents who have provided everything I have ever needed. I never had any trouble at school. I never lacked anything and I knew that all they wanted was for me to emerge as one of the best. I wanted to make them proud in that aspect as a way of my gratitude towards their tireless commitment towards taking care of me and my every need.

Bayiga Sharon Natukunda

I loved art and I had the talent for it. I believe I picked this from my mother who was a gown fashion designer. I look

I am glad that my uneducated parents have a first-Class degree son in the whole clan. Let this motivate you reading this, everything is possible, simply create the right mindset and be positive all the time.

Special Thanks to the MTSIFA fraternity, all my supervisors, my parents, secondary parents and helpers, my art clients all over the world, my classmates, my siblings and everyone else.

Looking forward to pursuing further studies

My family always had high expectations and so I didn't want to disappoint them. I also wanted to be the first in my family to get a first-class degree. I don't like the idea of failure at all. If I'm doing something, I do it well.

Kirabo Edwina Mirembe



I first want to thank the all-mighty God who enabled me to get a first-class degree, I am so grateful. Well before joining University, I had a talk with my older siblings that gave me advice on how best I could pull off a first-class degree. I was told to give it my best from the word go because things would get easier towards the end for as long as I maintained the good grades from first year. Secondly, I made sure every activity had its own time and I wouldn't mix my studies with other non-academic business. This really kept me focused.

"I applaud Makerere University for giving creatives the freedom of expression as well as a conducive environment to blossom and impact positively on society."

Owot Derik Haron

I struggled with academics as a child and I knew I wasn't that perfect but wanted to do better every day hence the urge to work hard.



Joining Makerere University on a government scholarship and more so CEDAT was the key and major boost for my confidence. It made me believe I could accomplish anything. I was in the best university and best college so I was among the best. This motivated me the more and made me believe in myself to even do better.

The setting also was so perfect for excellence right from lectures to course mates. Not forgetting my everyday task of always being better at anything I do. I had no excuse but rather to work harder.

Nabacwa Veronica

The love for engineering particularly civil, always wanting to relate theory to the field, curiosity and thrust in me of wanting to challenge myself.

Agudu Rachael

When I started out in 2016 I had very little knowledge about what I was doing. One of my lecturers though, Sylvia Nakintu inspired me because she was really passionate about valuation. Her breadth of knowledge sparked a passion in me to learn. I became more dedicated to what I was doing and with that I was able to get a first class.

I joined Makerere University because my family could not afford the tuition to send me to a university abroad that had granted me admission. I did not let this put me down. On the contrary, it became the driving force behind all my academic achievements. I was determined to be the best student in Makerere! After the first semester however, I quickly learnt that there is a lot more to life than just books. This,



however, should not be an excuse to neglect academia. I began to serve more in church and allowed God to take the centre stage of my life. I recall two exam seasons where I took Holy Communion with my roommate before the papers. I learnt to pray and trust God with my life and the gift of knowledge and intelligence He had given me and He blessed me even more. When the university was closed because of riots in 2016, I started out in business because I realised that being street smart was just as important as being book smart in the world. Since then, I have started more than 4 businesses, 2 of which are thriving to date. All these experiences

served to make me more resilient and gave me even more motivation to excel in my studies. In the second semester of third year, I realised that it was time to start thinking of life after campus. By this time, I had relatively good grades and began to seek out recruitment opportunities.

Owino Shelah Ruth

God seems to have had other plans for me because I enrolled for a one year leadership course at the start of 2020 and wrote a book. This experience reminded me of past traumas that had also fueled my drive for excellence. I



Owino Shelah Ruth

wanted to show the girls and boys who had suffered through abuse like I had that it is possible to turn your life around. I cannot neglect to mention the marvelous friends who helped me in discussion when it seemed like the things I was juggling were becoming too much to handle. I am glad that God blessed them with first classes too. To summarize my four years, I can only truly say that it has been God; guiding me, sustaining me, leading me to the right people and granting me ever increasing favour and zeal for excellence. My story can be yours too. Keep striving and trust in God!



MAKERERE UNIVERSITY

Innovating

Makerere University research, innovations and strategic direction were featured as a pull-out in the New Vision newspaper of Thursday 22nd April 2021. The pull-out has as its leading voice an interview with the First Lady and Minister of Education and Sports, Hon. Janet Kataaha Museveni, with the rallying call “We must be masters of our future”.

The pull-out also features an article by

the Chairperson of Council, Mrs. Lorna Magara entitled “Our future is research”. Therein, she discusses Makerere University’s focus to transform into a research-led university as outlined by the Strategic Plan 2020-2030.

The Vice Chancellor, Prof. Barnabas Nawangwe then outlines the reforms being undertaken in the University based on findings that “No organisation can run efficiently and effectively without the appropriate

governance structures. This is even more important for a complex organisation like Makerere University, with multiple stakeholders and numerous international links and partnerships.”

CEDAT innovations also featured in the pull out.

Do not miss your free hard copy in the New Vision or [Download the soft copy here.](#)



Congratulations: Over 700 graduate from CEDAT

The 71st graduation at Makerere University closed today with over 700 graduands from the College of Engineering, Design, Art and Technology (CEDAT) receiving degrees and Doctors of Philosophy. The college also saw 21 undergraduate students graduate with First Class Honours Degrees from various fields of Engineering, Architecture, Surveying, Quantity Economics, Construction Economics and Fine Art.

The College had 2 members of staff graduate with PhDs. Dr. Maximus Byamukaba Baguma, of the Department of Electrical and Computer Engineering, did his research in Energy Harvesting, storage and Management for environment Monitoring Wireless sensor Networks in the East African

Region while Dr. Barugahare John Berchmans, from the Department of Architecture and Urban Planning,

“...Prof. Suruma encouraged all graduates to be a candle that lights up the world and also keep their faith in God...”

researched the Development Control and Physical Plans Implementation in Kampala Capital city 1944-2018.

About 101 students graduated with Masters in various fields.

During the graduation, the university awarded an honorary degree to Dr.

Akinwumi A. Adesina, the President of the Africa Development Bank.

Often described as “Africa’s Optimist-in-Chief”, Dr. Adesina was awarded an Honorary Degree of Letters of Makerere University.

Dr. Adesina was first elected President of the African Development Bank on 28 May 2015. He was re-elected for a second five-year term on 27 August 2020 with 100% of the votes of the Bank’s shareholders, regionals and non-regionals — the first such in the history of the Bank since 1964.

During the graduation, The Vice Chancellor, Prof. Barnabas Nawangwe credited CEDAT for its continued role in contributing to research and innovation in the university. He thanked the researchers and students of CEDAT

for their contribution towards the fight against Covid 19.

The college, in Partnership with Makerere University College of Health Sciences and Uganda Virus Research Institute, has developed a COVID-19 diagnostic rapid test kit for detection of the virus in saliva. It is expected that the rapid testing kit will be cheap, safe, non-invasive, and with rapid turnaround time for detection of active Covid-19 including individual self-collection of the sample. This intervention is expected to minimize

transmission risk faced by health care practitioners and offers effective diagnosis, efficient contact tracing and community surveillance.

The college also developed a recyclable water hand washing machine, an innovation the Vice Chancellor said will be pertinent even beyond COVID-19, especially in health and educational facilities, which use a lot of water as well as in areas with acute scarcity of water.

In addition, MAPRONANO has produced a diesel engine. “You will recall that the Kiira EV electric car is also a product of this college. With the development of the diesel engine, the stage is set for production of all types of vehicles,” Prof. Nawangwe said.

The Chancellor, Prof. Ezra Suruma, thanked the faculty and staff of colleges for the excellent work done



The Academic Procession on its way to the Freedom square for the graduation ceremony

to prepare the students that were graduating. “Thank you very much. I am confident that these graduates have acquired great knowledge and life skills that will enable them to thrive in their professional careers and to contribute enormously to the prosperity of our country,” he said.

Prof. Suruma encouraged all graduates to be a candle that lights up the world and also keep their faith in God, saying the only 2 things one will always have are “your faith and your education”

“On Tuesday students of Performing Art and Film brought tears of joy to my eyes when they Sang: Carry your candle into the darkness and go light your world. A candle may be small in size but when it is taken where there is darkness it brings amazing relief and hope,” Prof. Suruma said. “So do not underestimate the power you have to bring hope and joy wherever

you find yourself, wherever God sends you. Together, our candles will grow into a powerful flame that will transform Uganda forever.” As the curtains came down on the 71st graduation ceremony, the vice chancellor noted that a total of 12,550 students had been awarded degrees and diplomas of Makerere University in various disciplines. Of these, a record 108 received PhDs. Of these, 38 graduands are female, representing 35% of the total. A total of 1160 graduands received Masters Degrees. Of these, 434 are female, representing 37% of the total. Of all the 12,550 graduands, 51% are female and 49% are male.

UNIVERSITY RESTRUCTURING COMMITTEE MEETS WITH CEDAT STAFF



The University restructuring committee on 9th April 2021 met with the staff of the College of Engineering, Design, Art and Technology to discuss how the College's structures and strategic plan fits into the university strategic plan.

Makerere University's 2020-2030 strategic plan seeks to transform the university into a vibrant, professionally managed and research-led university.

The strategic plan is driven by four major goals which include: Investing and championing impact research; Promoting innovations and academic excellence; Professionalism, inclusivity, equity and diversity; and Establishing relevant partnerships with government, private sector, local communities and international actors.

The restructuring committee, headed by Eng. Dr. Stephen Kagoda sought to gather information about the College's structure and staffing, centres of excellence and research institutes, knowledge transfer partnerships, among others. The committee also sought ideas from members of staff on how the current university's structures and processes can be improved upon.

The committee was welcomed by the Deputy Principal, Dr. Venny Nakazibwe, who in her remarks thanked the university for the initiative and the committee members and staff present for their time and participation in the exercise.

In her presentation, Dr. Nakazibwe gave the committee insight into how the college is run, what structures exist and what challenges the college is facing. The

deputy principal then listed recommendations for the College that would make administration and operations at the college more effective.

Some of these recommendations included: The need for funding for the Institute of Heritage Conservation and Restoration at the Margaret Trowell School of Industrial and Fine Arts, the need to hire a College grants officer, the need to include the College systems administrator into the College establishment and the need for college registrars in charge of graduate students.

Members of staff present also were given the opportunity to share their opinions on how management of the college and its structures can be improved and aligned to the university strategic plan.

Eng. Dr. Dorothy Okello recognized in Top 100 Women Fixing Uganda



Eng. Dr. Dorothy Okello

In an article by the [CEO Magazine](#) on June 20, 2021, the Dean of the School of Engineering, Eng. Dr. Dorothy Okello has been recognized as one of the top 100 women fixing Uganda. The article is quoted below:

“Dorothy Okello is Dean, School of Engineering, College of Engineering, Design, Art and Technology (CEDAT), Makerere University since August 2019. She is also a Senior Lecturer, Department of Electrical and Computer Engineering & Researcher with netLabs!UG that seeks to be a leader in collaborative research, development and solutions on innovative telecommunication and networking technologies, strengthening the innovation ecosystem in Uganda and across East Africa and Adjunct Member of Faculty, Institute of Technology Carlow, Ireland.

Since May 2013, Dorothy has been a Senior Lecturer at College of Engineering, Design, Art and Technology at Makerere University where she is involved in teaching and research in the Department of Electrical and Computer Engineering

specializing in Telecommunications. Courses taught include Introduction to Electrical Engineering, Telecommunication Systems, Wireless Propagation, and Wireless Technologies. Research interests include community wireless networks, cognitive radio, gender & ICT for Development, innovations for affordable and accessible ICTs (information and communication technologies).

She also serves as Adjunct Member of Faculty, Institute of Technology Carlow, Ireland and Director of Innovation, Resilient Africa Network (RAN) hosted by Makerere University.

Supported by USAID, RAN is a multi-disciplinary network of 18 Sub-Saharan African universities that seek to identify, develop and scale innovative solutions to strengthen resilience of African communities.

Dorothy is a Member, Uganda Institution of Professional Engineers (UIPE), and registered by Engineers Registration Board (ERB). Served as UIPE President 2016-2018. Member, Institute of Electrical and Electronics Engineers (IEEE), and have served on 2017 – 2019 IEEE Ad Hoc Committee on Africa (AHCA).

Okello is the Founder, Women of Uganda Network (WOUGNET) whose mission is to promote and support the use of information and communication technologies (ICTs) by women and women organizations in Uganda.

WOUGNET is a non-governmental organization (NGO) initiated in May 2000 by several women's organizations in Uganda to develop the use of information and communication technologies (ICTs) among women as tools to share information and address issues collectively.

WOUGNET's vision is a society in which women are empowered through the use of ICTs for sustainable development. The mission is to promote and support the use of ICTs by women and women organizations in Uganda so that they can take advantage of the opportunities presented by ICTs in order to effectively address national and local problems of Sustainable National Development. Presently, WOUGNET has over 90 women organizations as members, the majority are in urban areas and/or district towns where there is some Internet access and a few in rural areas.

She was recognized with a number of international and national awards over the years including as 'Top ICT Woman – Uganda ICT Excellence Awards 2009' organized by the Uganda ICT Forum. Featured in 12 Top Technology People in East Africa who are technologists with a social twist by Enterprise Technology Magazine, September 2012.

Dorothy received the Women Achievers Award 2012 for enhancing women's empowerment through Science & Technology presided over by Uganda's president Yoweri Museveni, the President of Uganda.

In November 2013, she was the first recipient of Africa's first Digital Woman Award at ICT Days in Cameroon. In 2014, selected as Vital Voices Fellow for distinguished emerging and established women leaders who promote women and girls' progress.”

[View the article online here](#)

New CEDAT student leaders sworn-in



Incoming MES cabinet swears in in front of their peers

The college of Engineering, Design, Art and Technology on Friday May 21, 2021 witnessed the handover and swearing in of new student leaders of the various associations at the college.

The college has 6 associations each with a president and a cabinet.

The associations include Makerere Engineering Society (MES), Makerere Association of Construction Management (MAC), Makerere University Fine Art Students Association (MUFASA), Makerere University Association of Surveying Students, Makerere University Planners Association, Makerere Architecture Student Association

The handover was witnessed by the Principal, Prof. Henry Alinaitwe, the dean of the School of the Built Environment, Prof. Moses Musinguzi, Dr. Eng. Anthony Rucukye, who represented the patron of MES, the Deputy Principal, Dr. Venny Nakazibwe, the Principal Communication Officer, Ms Betty Kyakuwa and the Web Administrator, Mr Mark Rujumba as well as parents of the new student leaders.

In his remarks, Prof. Alinaitwe thanked the out-going leadership for working with the college to improve student welfare and also organize academic events. He called on the new leaders to keep the good relationship that management has with the student community. He asked them to always raise their grievances with the relevant offices before reporting to the Vice Chancellor. "Always follow the right channels of reporting," he urged them.

Dr. Rucukye, who represented Dr Dorothy Okello shared with the new leaders the purpose for which MES was started.

To create a medium of communication between the staff and students

To create a worthy relationship between students and industry – facilitate industrial placement for students

To get in touch with practicing engineers in the field to help students broaden their technical skills through seminars and workshops providing free mentorship programs.

Create, encourage and perpetuate a sense and spirit of togetherness among students

To protect and defend engineering students' interests, rights and freedoms

To instill a sense of discipline, appreciation, love and pride for engineering profession.

To help recommend students to different institutions for scholarships, training, mentorship and employment.

He challenged the new leadership to align their objectives and campaign promises with the objectives of MES.

Dr. Rucukye called on the leaders to balance leadership and academics. "It is possible to excel at both. Plan for it effectively, knowing the primary reason for you being at University is academics," he emphasized.

Dr. Rucukye who formerly served as the MES presidents in 2006 shared with the students that his grades were the best when he was a student leader. He went on to graduate top of his class.

He reminded the new leaders that to lead is to influence and not to exert authority.

CEDAT Students emerge Finalists in global design competition

MUSANA



PADDY NSUBUGA
U - Mechanical Engineering
Makerere University
 Uganda,
Africa



NAKIBUUKA CATHERINE
U - Environmental Science
Makerere University
 Uganda,
Africa



NALWOGA MARTHA
U - Business Administration
Kyambogo University
 Uganda,
Africa



AKULU RUTH
U - Economics and Trade Policy
Ndejje University
 Uganda,
Africa



KIKOMEKO IBRAHIM
U - Mechanical Engineering
Makerere University
 Uganda,
Africa



Students from the College of Engineering, Design, Art and Technology are part of a team that is now a FINALIST for Wege Prize 2021—a global design competition. The two students, Paddy Nsubuga and Kikomeko Ibrahim are both pursuing their degrees in Mechanical Engineering from the College. They belong to a team Musana, which created a stove using solar power and water to fuel cooking, eliminating the need for wood fuel and helping reduce deforestation in Uganda.

In addition, their solution includes a model to buy or repair used stoves to reuse raw materials. The other members of the team include Nakibuuka Catherine, a student of Environmental Science at Makerere University, Nalwoga Martha, a student of Business Administration at Kyambogo University and Ruth Akulu who is pursuing a Bachelor's in Economics at Ndejje University.

We congratulate all the members of team Musana and wish them the best in the Wege Prize Final.

- End -

