ICT-4MRPQ

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REPORT ON LAUNCH PROCCEEDINGS OF THE Mak E-SUPERVISION PLATFORM

under

Project deliverable D7.2, Dissemination Plan (WP7)



April 2024

INTRODUCTION

The Directorate of research and graduate training (DRGT) of Makerere University organized an event titled *Annual forum for graduate research and policy dialogue* under the theme "*Regional Integration and development" at Yusuf Lule, CTF2 Auditorium.*

The main objective of the event was to launch the Research Information Management System (RIMS) which is composed of Mak E-supervision platform; undertake the first annual graduate research policy dialogue at Makerere University.

Research Information Management System (RIMS) is an online platform that provides a solution to tracking online presence of Makerere University's research, innovations and graduate training milestones. The aim of RIMS was to enable timely tracking of progress in research and outputs; sharing with the government, funding agencies, research partners and stakeholders in general, the impact of Makerere University's research in the transformation of communities.

RIMS platform integrates numerous online platforms of Makerere University such as ACMIS, E-supervision, GAMSU, library, e-HRM, postdoctoral research, research innovation and RiF as shown in the diagram below Figure 1.

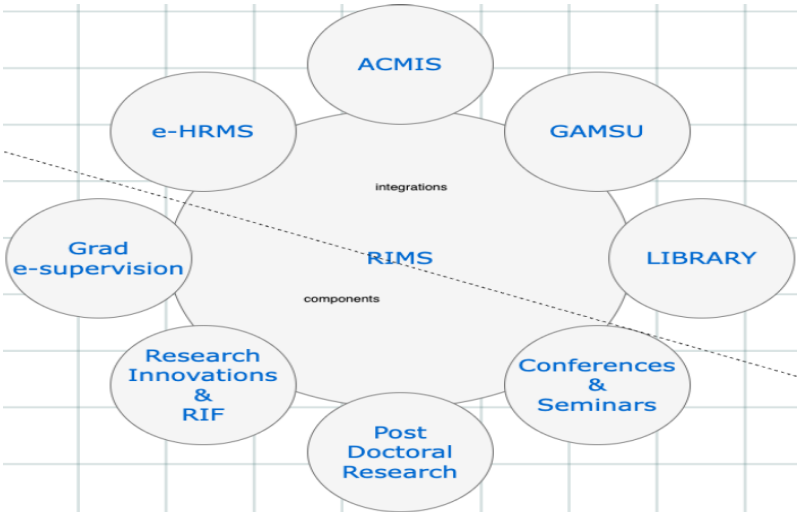


Figure 1: components and integrations of RIMs.

The event targeted mainly; stakeholders from the Directorate of Research and Graduate Training (DRGT); stakeholders from the Directorate of ICT (DICTS),

college administration, university top management, private sector and graduate students. The event was officiated by the State Minister for higher Education Hon. Dr. John C. Muyingo. Over seventy (70) Graduate students under policy dialogue presented their findings at the event.

The event was undertaken in line with project deliverable **D7.2 (WP7)** which is Dissemination Plan. It seeks to allow output dissemination, knowledge exchange & change processes communication among others.

Remarks from PhD Fellow President

The remarks from PhD fellow President were given by Ms. Claire Cheremoic who highlighted the following.

- Thanked everyone involved in organizing the event especially the Director, DRGT who serve as the patron for all Makerere University PhD Fellows. Thanked the university leadership, staff, supervisors and the Vice Chancellor for supportive learning environment that fuels academic journey.
- Mentioned the various challenges faced by PhD students which include; delayed supervision by lecturers, limited funding, engagement of PhD student research which this policy dialogue will address.
- Emphasized the fact that the university is a powerful marketing place for students.
- Concluded by commending the Vice Chancellor for always addressing the matters that affect students.



Ms. Clare Cheromoi giving the opening remarks at the ceremony.

Remarks by the Director, Directorate of Research and Graduate Training

Prof. Edward Bbaale, Director DRGT highlighted the following;

- Mentioned that the university embarked on a lead research university with 30% graduate students and 10% of these are international graduate students.
- In order to achieve the research lead university the following factors are instrumental these include; establishment of research entities through multidisciplinary and multi-institutional activities such as research centres and institutes; packaging and marketing of research outputs for adoption to communities, Makerere University established an innovation hub at CTF2 and also innovated the university press to aspire new ideas.
- The first annual forum for graduate research policy dialogue is meant to enable showcasing the output of graduate research so, PhD students will engage in policy dialogue. The papers have undergone the relevant reviews.

- It has been noted that, there is a higher return on investment for higher education than the lower one. Therefore, more support is needed for funding through scholarships.
- Today, we will witness the launch of RIMS and has a component of tracking graduate students. This aligns with Makerere University transparency commitment to enhance efficiency. Manual handling of graduate work is now behind us, it will be handled by RIMS.
- RIMS will be rolled out at college level. It will be handled at the college and DRGT will perform an oversight role.
- Concluded by wishing everyone a fruitful deliberations.



Remarks from Director, Directorate of ICT support

Prof. Edward Bbaale, Director DRGT giving his remarks

Mr. Mugabi Samuel the Director, Directorate of ICT support DicTs gave the remarks and mentioned the following;

- Highlighted a background to RIMS, which was developed and launch of various Information Systems at Makerere University is as a result of a strategic shift by the leadership from outsourcing to solving challenges related to business processes digitalisation through in-house development.
- RIMS was developed by a team made up of Mr. Juma Katongole, Mr. Joshua Muhumuza and Mr. Denis Wamala. The latter who presented on

behalf of his colleagues demonstrated how the e-Supervision module can be used to track a scholar's progress right from the conceptual stage right to the dissertation and defence.

Remarks from Vice-chancellor of Makerere University

The Vice Chancellor, Prof. Barnabas Nawangwe thanked Hon. Dr. Muyingo for presiding over a second event at Makerere in less than a week. On 19th April 2024, he represented the First Lady and Minister of Education and Sports Hon. Janet Museveni, at the launch of the Digitalisation of Academic Records and Processes (DARP) project.

- Thanked the Government of Uganda substantially tackling the chronic shortage of funds for research by instituting the Makerere University Research and Innovations Fund (Mak-RIF). With the money that Government is giving us, we have changed the research landscape of Makerere tremendously.
- Additionally, with funds from UNDP established a state-of-the-art Innovation Pod. We have put in place an office specializing in Intellectual Property and they are doing a great job; they have already registered several copyrights and applied for several patents.
- Regretted the timing of ongoing budget cuts which are likely to affect funding for research. Noting that we are in the era of the knowledge economy where those in the know get ahead of those who are not, reiterated that it is Nations such as China that have prioritised knowledge production through funding of Higher Education and research that are making leaps economically.
- If Africa is going to industrialize, we must produce more PhDs because no amount of foreign direct investment is going to industrialize Africa. Africa will be industrialized by the small and medium enterprises, which will come mostly out of research by PhD and Masters students, and a few undergraduate students the Kiira Motors came from undergraduate students.
- Cited the presentations made during the opening ceremony by Mr. Erick Jacob Okek on Immunological and parasitological impact of co-deployment of Indoor Residual Spraying (IRS) and bed nets for malarial mosquito vector control in Uganda and Ms. Adella Grace Migisha on Environmental influences on electricity reliability in Uganda's grid system, that PhD students are addressing pertinent issues and ought to be supported by the Government.

- Concluded by imploring everyone to do their best to unlock the potential of Makerere University. There is so much potential here that we are not utilizing as a country.



The Vice Chancellor, Prof. Barnabas Nawangwe giving his remark at the event.

Remarks from state minister for higher education

Hon. Dr. John C. Muyingo the state minister for higher education gave the following remarks

- Highlighted that higher education and research play a pivotal role in driving regional integration and development, and called upon scholars and researchers to play their respective roles.
- The Government of Uganda's appreciation of the strides made by Makerere University in as far as conducting research that informs national development priorities. Applauded the two-day Annual Forum for Graduate Research and Policy Dialogue and launch of RIMS not only as milestones in graduate training but also platforms that will make the institution's research more visible to government, funding agencies, research partners and other stakeholders.
- There is need for Higher Education Institutions (HEIs) such as Makerere to play a more practical role in engaging the policy space and contribute to nurturing a policy environment receptive to evidence-based solutions.
- Concluded by Launching RIMs on day one of the event.



Hon. Dr. John C. Muyingo the state minister for higher education launching RIMs digitally.

The following are PhD research titles and policy briefs that were presented to the stakeholders on day one of the event.

- Sustainable Management of Agricultural Waste in Uganda Using the Concept of Circular Economy by Denis Nsubuga (PhD)
- Do Libraries Contribute National Development in Uganda? Caroline Ilako, Ph.D.
- Violence against Nurses in Hospitals by Patrick Mwase, PhD Candidate
- Involving Young Fishers to Actively Participate in Reduction of Illegal Fishing by Namubiru Zula
- When Spiders Unite, they can Tie Down a Lion: Stakeholders' Collaboration in Empowering Women Farmers in Ethiopia by Helina Befekadu Bakele, PhD student
- How Transformative Responses Increase Agro-pastoral Resilience to Drought in Uganda's Cattle Corridor James by Mbaziira, is a PhD fellow
- Do Levels of Formal Education, Farm Sizes and Gender Impact on Tomato Farmers in Central Region in Uganda? Mwananunu Simon
- Quantitative reservoir characterization using seismic, rockphysics and geological constraints example from Semliki basin Albertine graben by Joan Nakajigo PhD student.
- Refugees' Opportunities and Participation in Higher Education in Uganda by Joan Atimango PhD student

- The Role of Geography Teacher Competence in Facilitating Lessons in Selected Secondary Schools of Luweero District Mbabazi Janepher, PhD
- Environmental Influences on Electricity Reliability in Uganda's Grid System by Adella Migisha Grace PhD student
- Tackling the Menace of Gum Diseases to Improve Treatment Outcomes in Patients with Diabetes Mellitus by Kiryowa Haruna Muhmood, PhD fellow
- Unregulated Health Advice in Uganda's Digital Healthcare Spaces: The
- Power of a Social Media Doctor by Ggaliwango Marvin PhD
- Gender Transformation in Politics: Analysing Local Community's Willingness to Support Women who choose to Contest on Open Seats BY Peace Regis Mutuuzo, Ph.D.
- Socio-Cultural Factors that Influence Adherence to MDA among School Children in Schistosomiasis Hotspots along Lake Albert, Hoima District by Odoi Paskari
- Competence Based Learning in Education: Nurturing Communication and Collaboration Skills by Pegoty Kosgei
- Household Energy Transition to Clean Cooking Fuels: A Methodological Review by Joseph Elasu PhD student.
- The Impact of Green Energy Consumption on Green Energy Transition in the East African Community by Muhire Francis
- Tax Relationship Management and Performance of Petroleum Excise Duty: The Mediating Role of Digital Tax Adoption By Julius Opiso, PhD
- Cassava Yield Response under Past, Present and Future Climate Regimes in Eastern DR Congo by Yamungu Alongo PhD Student
- Beyond Fossil Fuels: Pioneering Biochar Slurry as Alternative Fuel in Diesel Generators for Cleaner Energy Production by Innocent Miria Opio
- Climate Imperatives and Judicial Oversights in Uganda: Comparing Nyakaana v NEMA (2015) and Water & Environment Network (U) Ltd v NEMA (2021) with South Africa's Earthlife Johannesburg v Minister of Energy (2017). By Oscar Moses Nkengi
- Examining the Challenges Faced By Deaf Women in Addressing Gender-Based Violence in Kampala District by Gimono E. Munira Ali
- [Re]Imagining Family Roles through Child Art: A Shared Responsibility for Gender Equity and Social Inclusion in Uganda by Kato Abbey
- Gwantamu: On Food Pottery Metaphors and Their Role in Kampala's Public Debate by Edward Balaba (PhD Candidate)
- Acceptability of an Online Peer Support Group as a Strategy to Improve Antiretroviral Therapy Adherence among Young People in Kampala District, Uganda: Qualitative Findings by Yerusa Kiirya

Day Two at Annual Forum for Graduate Research and Policy dialogue

The Director, DRGT (DRGT) Prof. Edward Bbaale made his welcome remarks for day two and highlighted the following;

- PhD candidates should embrace the feedback received from peers and mentors as well as seek avenues of identifying and protecting any Intellectual Property (IP) arising out of their work.
- Reminded candidates that whereas their papers had been subject to single-blind peer review and passed, additional feedback should always be expected in an academic environment.
- Encouraged candidates to visit the Intellectual Property Management Office (IPMO) to receive insights on aspects of their research, innovations and services that are unique and ought to be protected.

Remarks by the Deputy Vice Chancellor Academic Affairs

Day two of the forum was officially opened by the Deputy Vice Chancellor (Academic Affairs) (DVCCA), Prof. Umar Kakumba, who was represented by the Academic Registrar, Prof. Buyinza Mukadasi. In his remarks he highlighted the following;

- Reminded PhD fellows that their research will be of ultimate benefit to society when it transcends the initial objective of generating new knowledge, to translation into effective technologies, innovations and strategies that can be appropriately delivered to beneficiaries.
- The convention has assisted in establishment of a supportive community of doctoral students and promote social and intellectual interactions among students and researchers from academia, industry and government.
- The current drive by Ugandan Universities to transition into centres of excellence in graduate training will be facilitated by training of high-calibre staff and enabling the development of new PhD curricula.
- Currently developing Taught PhD curricula in most disciplines as a way of tapping into crosscutting knowledge that empowers graduates to tackle today's multifaceted challenges.
- PhD fellows should embrace the philosophy of interconnectivity by attending research dissemination outside their disciplines to foster collaborations.

Recap of day one

The Chairperson of the Annual Forum's Organizing Committee and Deputy Director DRGT, Prof. Julius Kikooma highlighted what transpired in day one.

- Thanked Hon. Dr. John C. Muyingo for presiding over the opening ceremony, where he launched the Research Information Management System (RIMS) as well as the Vice Chancellor for delivering an impromptu keynote address
- The papers presented on day one each highlighted the importance of research as an awareness raising tool that can foster implementation of innovations that impact various spheres of societal well-being.
- Admitted that a lot of their findings never make it to the implementation stage, hence the need for research uptake strategies.
- called for multidisciplinary research teams, which were reechoed as a catalyst for championing a broader understanding of the different issues that may impact development, and foster reception and implementation by policymakers at both local and international levels.
- The papers highlighted; increasing minority groups and marginalised persons albeit no interventions in sight, the need to close the knowledge gap in different interventions across numerous development sectors, financing for capacity building and interventions so as to create meaningful and lasting impact of interventions, and the need for more bankable data to foster decision making and policy formulation in areas such as health, environment and energy.

Mental health and wellness

The Chairperson of the Annual Forum's Organizing Committee and Deputy Director DRGT, Prof. Julius Kikooma discussed about mental health and wellness;

- Addressed the prevalence of mental health problems among graduate students and environmental factors that could actually be the source of these mental health challenges.
- Emphasized the need to start more open conversations about mental health and well-being on campuses, to breakdown the stigma, to support students to build up their emotional resilience, and to enable more people to seek support from counseling and mental health services.

The following are PhD research titles and policy briefs that were presented to the stakeholders on day two.

- Relevance of Local Government Elections on Ex-Combatant Reintegration in Post Uganda National Rescue Front II in Yumbe District. Maliamungu by Habib Uthuman

- E-Governance, Quality of Work Life Experiences, Subjective Wellbeing and Coping Strategies in the Uganda Police Force by Victoria Patricia Nzarubara
- Colonial Foundations of Post-Independence Corruption in Uganda: A Complexity Systems Perspective by Clare Cheremoi
- The Contribution of Community Visual Art Initiatives in Imparting Social Change in Uganda: A Case Study of Wakiso District by Nabukenya Fidelis Matovu, PhD Fellow
- Governance and Modern Renewable Energy Consumption in the East African Community (EAC): A Dynamic Panel CS-ARDL Approach by Jennifer Nabaweesi
- Evaluation of Antifungal Activity of Commonly Used Medicinal Plants for Treatment of Candidiasis in Pader District, Northern Uganda by Betty Akwongo,
- Optimal Waist Circumference Cut-Off Points for Predicting Metabolic Syndrome among Females of Reproductive Age in Wakiso District, Central Uganda by David Lubogo
- A Systematic Review Reveals That African Children of 15-17 Years Demonstrate Low Hepatitis B Vaccine Seroprotection Rates by Fahad Muwanda
- Antimicrobial, Antioxidant, and Sun Protection Potential of the Isolated Compounds from Spermacoce Princeae (K. Schum) by Peter Sekandi
- Timing of Surgery and Preoperative Predictors of Surgical Site Infections for Patients with Depressed Skull Fractures in a sub-Saharan Tertiary Hospital: A Prospective Cohort Study by Hervé Monka Lekuya
- Adaptive Network Architecture for Sensor Data Acquisition by Ephrance Eunice Namugenyi
- Prevalence of and Psycho-Social Factors Associated with Alcohol Use among PrimarySchool Going Children Aged 6 to 13 Years in Mbale District Uganda: A Cross-Sectional Study by Joyce Sserunjogi Nalugya
- "I would like to be provided with a Service on Time and be cared for": Perceptions of Quality of Care in HIV Testing Services from the Perspective of Adolescent Girls and Young Women in Rural Uganda by Christine Muhumuza
- Plasmodium Falciparum Genetic Diversity and Multiplicity of Infection Based on MSP-1, MSP-2, Glurp and Microsatellite Genetic Markers in Sub-Saharan Africa: A Systematic Review and Meta-Analysis by Alex Mwesigwa
- The Utilization of Antenatal Care Services by Adolescent Urban Refugees in Kampala, Uganda by Olivia Nakisita

- Immunological & Parasitological Impact of Co-Deployment of IRS & Bed Nets for Malaria Mosquito Vector Control in Uganda by Erick Jacob Okek
- Decision-making Pathways for Contraceptive Use among Refugee and Host Populations in Adjumani District, Uganda: An Exploratory Study by Roselline Achola
- Investigation of Farmers KAP, their Impact on Farm Ecosystem Health and Human Genotoxicity in the Cattle Corridor: A Case Study of Kiruhura District by Nabusige Jean Brenda Gesa
- Barriers to and Facilitators of Public Health Facilities' Responsiveness to Cervical Cancer Screening Literacy Needs of Rural Women with HIV in East Central Uganda by Juliana Namutundu
- Distribution and Antifungal Susceptibility Profile of Oropharyngeal Candida Species Isolated from People Living With HIV in the Era of Universal Test and Treat Policy in Uganda by Benson Musinguzi
- Usability Context and Adoption of Human Capital Management Systems in Ugandan Public Universities: Application of the Unified Theory of Acceptance and Use of Technology by Mutuzo Irene Esther
- Leveraging Explainable Transformer Models for Informed Financial Decision Making among Women in Uganda by Belinda Marion Kobusingye
- Determinants of the Commercialization 'Valley Of Death' among Ugandan Researchers, Innovators, and Techno-Business Firms by Ronald Jjagwe
- Incidence, Severity and Farmers' Knowledge in Management of Alternaria blight of Sweet potato in Uganda by Agnes Alajo
- Effects of Acute Gamma Irradiations on Cassava Tissue Types of Selected Ugandan Cassava Genotypes by Apio Hellen Beatrice
- Identification of Genomic Regions for Traits Associated with Flowering in Cassava (Manihot esculenta Crantz) by Julius K. Baguma
- Increased Thermoregulatory Sensitivity to Chlorpyrifos in Bank Voles, Myodes Glareolus, Selected for High Metabolic Rate by Geoffrey Dheyongera
- Effect of Natural Ventilation on Air Quality of Residential Buildings in Kampala City, Uganda by Derrick Kajjoba
- Effect of Ultra sonication Treatment on Anti-Nutrients in Common Beans by Ann Ritah Nanyonjo
- Constraints and Impact of Adoption of Improved Robusta Coffee Varieties on Profitability and Welfare of Smallholder Farmers in Uganda by Robert Rutanga Sabiiti,
- Towards a Framework for Assessing the Effectiveness of Epapers in the Ugandan Press by Arinaitwe D. Rugyendo, Ph.D.

MakPress operations @mak

The Managing Editor Mak Press, Dr. William Tayeebwa *outlined the benefits that publishing with Mak Press accords to PhD Fellows.*

All scholars at Makerere University have the privilege of having their works published free of charge by his unit, and better still, are eligible to receive 20% of the proceeds from the sales of their publications.
Mentioned that paper presentations from the two-day forum were good candidates for compilation into a book that can be published by Mak Press.
Revealed that talks with College Principals had addressed the need to support Graduate Students to publish their work in college-based journals.

Innovations and intellectual Property

Prof. Edward Bbaale Director, DRGT gave highlights on innovation and intellectual property;

- Mentioned Makerere University is very resolute to explore and walk the entire journey along the value chain from research and innovation to commercialization.
- The Innovation Pod was established to package and market research outputs and innovations for impactful adoption within communities.
- In addition, the Innovation Pod is multidisciplinary and therefore open to innovations from all disciplines.
- Encouraged staff and students to use the Makerere University Press (Mak Press) to publish their work.

Closing remarks
Prof. Edward Bbaale Director, DRGT gave the closing remarks at the event.

- Noted that the Graduate students are architects of knowledge production, pioneers of innovation, catalysts of progress and an integral part of Makerere's quest to become a research-led university. Therefore, count on you in terms of your dedication, your thirst for discovery that must shape the future of our university and contribute to the socio-economic transformation of Uganda.
- Called upon PhD candidates to interest themselves keenly in the policies that govern their environment such as the; Intellectual Property Management Policy, Research and Innovations Policy as well as the Intellectual Property Management Office as structures that have been put in place to ensure that their research is well-facilitated.

- The University is committed to enhancing such meetings and interactions and we are very grateful that the University Central Management and Vice Chancellor is very passionate, and we received their utmost support financially.
- Thanked all participants and closed the event.

Programme of the event

MAKERERE UNIVERSITY

MAKERERE UNIVERSITY
DIRECTORATE OF RESEARCH AND GRADUATE TRAINING (DRGT)

ANNUAL FORUM FOR GRADUATE RESEARCH AND POLICY DIALOGUE
THUR 25TH AND FRI 26TH APRIL, 2024
YUSUF LULE, CTF 2 AUDITORIUM
THEME: "REGIONAL INTEGRATION AND DEVELOPMENT"
DAY ONE: FRIDAY, 25TH APRIL, 2024

DAY 1: 25TH APRIL	ACTIVITY	RESPONSIBILITY
8:00 - 8:50 AM	Arrival and Registration	Secretariat
8:50 - 9:00 AM	• Uganda National Anthem • East African Anthem • Makerere Anthem	Performing Arts and Film
9:00 – 9:05 AM	Welcome remarks by the PhD Fellows President	Ms. Claire Cheremoi
9:05 – 9:15 AM	Immunological & Parasitological Impact of Co-deployment of IRS & Bed Nets for malaria mosquito vector control in Uganda	Mr. Eric Jacob Okek
9:15 – 9:25 AM	Environmental influences on electricity reliability in Uganda's grid system	Ms. Adella Grace Migisha
9:25 – 9:35 AM	Remarks by the Director, Directorate of Research and Graduate Training	Prof. Edward Bbaale
9:35 – 9:45 AM	Overview of the Research Information Management System (RIMS) by the Principal Investigator	Prof. Buyinza Mukadasi
9:45 – 9:55 AM	RIMS Presentation by Director, DICTS	Mr. Paul Mugabi
9:55 – 10:05 AM	Remarks by the Vice Chancellor	Prof. Barnabas Nawangwe
10:05 – 10:20 AM	Speech by the Minister of State for Higher Education (Chief Guest) and Launch of RIMS	Hon. Dr. J.C Muyingo
10:20– 10:25 AM	**Music interlude**	
10:25 – 10:30 AM	Introduction of the Key Note Speaker	Moderator
10:30 – 10:55 AM	Key Note Speech	Mr. Odrek Rwabwogo
10:45 – 11: 00 AM	Discussions	
11:00 – 11:10 AM	***Official Photography***	***Mak Public Relations Offic***
11:10 – 11:20 AM	**Tea Break**	**Secretariat**
11:20- 12:40 PM	Parallel Presentations in Break-Way Sessions	Moderator
1:00 - 2:00 PM	**Lunch**	**Secretariat**

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THE REPUBLIC OF UGANDA

MAKERERE UNIVERSITY

MAKERRE UNIVERSITY
DIRECTORATE OF RESEARCH AND GRADUATE TRAINING (DRGT)

ANNUAL FORUM FOR GRADUATE RESEARCH AND POLICY DIALOGUE

THUR 25TH AND FRI 26TH APRIL, 2024

YUSUF LULE, CTF 2 AUDITORIUM

THEME: "REGIONAL INTEGRATION AND DEVELOPMENT"

DAY TWO: FRIDAY, 26TH APRIL, 2024		
DAY 1: 26TH APRIL, 2024	**ACTIVITY**	**RESPONSIBILITY**
8:00 - 8:50 AM	Arrival and Registration	Secretariat
8:50 - 9:00 AM	Recap of Day One	Prof. Kikooma
9:00 – 9:10 AM	Remarks by the Director, Directorate of Research and Graduate Training (DRGT)	Prof. Edward Bbaale
9:10 – 9:20 AM	Remarks by the Deputy Vice Chancellor Academic Affairs	Prof. Umar Kakumba
9:20 – 9:40 AM	Mental Health and Wellness	Assoc. Prof. Julius Kikooma
9:40 – 10:0 AM	Discussions	
10:05 – 10:05 AM	***Official Photography***	***Mak Public Relations Office***
10:05 –10:30 AM	**Tea Break**	**Secretariat**
	Parallel Presentations in Break-Way: Session 1	
	Sub Theme 1: Health Systems	
	Session Chair: Dr. Lynda Nakalawa	
10:30 – 10:40 AM	Evaluation of antifungal activity of *khaya anthotheca* used for the treatment of candidiasis in Pader District, Northern Uganda - Betty Akwongo	**CTF 2 AUDITORIUM**
10:40 – 10:50 AM	Optimal waist circumference cut-off points for predicting metabolic syndrome among females of reproductive age in Wakiso District, Central Uganda - David Lubogo	
10:50 – 11:00 AM	African children 15 to 17 years of age demonstrate significantly reduced Hepatitis B vaccine sero-protection	